INVESTIGATING THE TRANSFER OF GUT MICROBIOTA

FROM EXERCISE-TRAINED ANIMALS

PHYSIOLOGICAL ADAPTATION ASSOCIATED WITH TRANSFER OF MICROBIOTA FROM EXERCISE-TRAINED MICE INTO GERM-FREE MICE

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A thesis submitted to McMaster University

in fulfillment of the thesis requirement

for the degree of Master of Science in Kinesiology

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MASTER OF SCIENCE (Kinesiology	2018) McMaster University Hamilton, Ontario
TITLE:	Physical adaptation associated with transfer of microbiota from exercise-trained mice into germ-free mice
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NUMBER OF PAGES	x, 102

LAY ABSTRACT

The gut microbiome or microbiota describes the composition of the human gut – remarkably, over 100 trillion bacterial cells live in symbiosis with the cells of the human body. Research from the past decade has elucidated the salient nature of the human gut microbiome on immunity, metabolic homeostasis, and overall health and disease. Transformative research in the field has demonstrated the ability to transfer these bacterial colonies from one individual to another and elicit change, such as altering body mass and adiposity, respective to their donor. The interaction between gut microbiota and other organ systems i.e. brain, liver, adipose tissue has been the focus of several recent investigations, suggesting that lifestyle changes such as diet and exercise can influence communication between the gut and various other organs and contribute to changes in function. Skeletal muscle is the largest muscle in the human body accounting for 40% of total mass and although the main role of skeletal muscle is locomotion and postural stabilization, it is integral for the regulation of blood glucose as well as a reservoir for other macronutrients. Acute and chronic physical exercise cause a myriad of adaptive responses throughout the human body including in skeletal muscle and the gut. Therefore, the existence and influence of a gut-muscle link or 'axis' on human health cannot be ignored. What is unclear exactly, is if exercise-induced adaptations in the gut of an individual can be transferred to elicit change in the gut of a recipient and further induce adaptations at the level of the skeletal muscle.

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ABSTRACT

Exercise is known to induce changes in the gut, typically referred to as the 'forgotten organ', and changes in gut microbiota can also occur with exercise possibly imparting systemic benefits. The question remains whether or not microbiota from an exercised animal can independently affect skeletal muscle morphology. Our first objective was to examine whether an endurance exercise program could modify the microbiota in donor mice. Second, we aimed to elucidate if such an endurance-trained microbiota could be transferred to germ-free mice via fecal inoculation. Finally, we sought to determine how the morphology and functional characteristics of skeletal muscle were influenced as a result of fecal inoculation. We hypothesized that germ-free mice recipients inoculated with the microbiota from endurance trained donors would undergo morphological changes in muscle fibre type composition and physiological changes in skeletal muscle function associated with a more oxidative phenotype. Eight-week-old male C57BL/6NCrl donor mice (n = 20) were randomized into two groups: one group completed an endurance exercise training protocol on a treadmill machine 3x/week for 11 weeks (n = 10) while one group remained cage-bound (n = 10). Ten-week-old male (n = 7) and female (n = 9) germ-free mice were colonized with the cecal microbiota of the donor mice in that, equal numbers of germ-free mice were inoculated with exercised-microbiota as sedentary-microbiota. Glucose metabolism and performance measures were evaluated in the donors as well as the recipients post-inoculation. Muscle tissue was extracted for immunohistochemistry and mitochondrial assays. During the intra-peritoneal glucose tolerance test (IPGTT), significant differences in blood glucose were found at 30min

between exercise-inoculated and sedentary-inoculated (23.4 \pm 2.2; 29.0 \pm 1.9 mmol/L, p<0.05).and change in blood glucose relative to baseline (12.04 \pm 2.4; 18.3 \pm 1.9 mmol/L, p<0.01). There were significant sex-based differences in the blood glucose response in inoculated animals such that there were significant differences in blood glucose between the exercise-inoculated females and sedentary-inoculated females at 15mins (28.4 \pm 2.4; 30.6 \pm 1.1 mmol/L, p<0.05) and 30mins (24.7 \pm 3.6; 29.9 \pm 2.4 mmol/L, p<0.01), however no differences between exercise-inoculated males and sedentary-inoculated males and sedentary-inoculated males. In addition, there were significant differences in the change in blood glucose relative to baseline between the exercise-inoculated females and sedentary-inoculated females at 15mins (12.3 \pm 1.9; 20.6 \pm 0.8 mmol/L, p<0.01) and 30mins (10.2 \pm 2.6; 19.9 \pm 2.1 mmol/L, p<0.001). This novel characterization of a link between gut microbiota and skeletal muscle suggests a transmissible capacity of microbiota to impart properties of 'healthy' muscle into compromised populations.

ACKNOWLEDGEMENTS

First and foremost, an extraordinary thank you to my supervisor, Dr. Gianni Parise for his extensive knowledge and patience as I tripped and stumbled my way into understanding how significant 'invisible' inhabitants of the colon are to human health. Although this was not exactly your field of research, you took a chance on me conducting this study and I thank you for that opportunity to explore and grow.

Thank you to my supervisory committee Dr. Stephen Collins and Dr. Jonathan Schertzer for their guidance, support, and expertise throughout the project. It has been an honour learning from researchers such as yourselves.

Thank you to my lab mates and all involved with the investigation. Your time cutting until your hands got frostbite and counting until your eyes bled, led to the success of this investigation. Your patience with me is highly appreciated and I thank you for the ongoing learning experiences.

Thank you to Dr. Josh Nederveen, who convinced me, while lifting heavy in the gym, to join the molecular physiology lab. I will never regret that decision. Thank you for teaching me the entirety of 'how to science' and igniting this passion for research.

Maffy, I am truly blessed to have you in this roller coaster time in my life - along with Vispo and Macaroon. Thank you for your honesty, perspective, and understanding of the lab lifestyle.

A big shout-out to those who made late nights and early mornings in the lab bearable especially when they began to blur together. I truly cherish your moral support and friendship.

Momma and Pops, thanks for nodding along pretending to understand what I do – clearly that is on me for not explaining better. But real talk, thank you for picking me back up, no matter how many times I fall. Knowing exactly what to say and when to say it. And most of all thank you for the care packages when you know the student budget should discourage me from having Burrito Bandidos 5x a week.

Spence, thank you for being everything you are and the most resilient person I know. You have helped me grow as a person more than can be expressed in words. Also, I appreciate you keeping me in the loop with the TSN updates at any hour of every day.

Praise be.

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LIST OF ABBREVIATIONS

16S/18S	Svedberg (metric used to distinguish ribosomes)
ANOVA	analysis of variance
AUC	area under the curve
β-HAD	beta-hydroxyacyl dehydrogenase
BMI	body mass index
BSA	bovine serum albumin
C. difficile	Colstridium difficile
C/Fi	capillary-to-fibre ratio
CFPE	capillary-to-fibre perimeter exchange index
COXIV	cytochrome c oxidase subunit 4
CS	citrate synthase
CSA	cross sectional area
DAPI	4', 6-diamidino-2-phenylindole
DSHB	Developmental Studies Hybridoma Bank
ECV	extra-cellular vesicles
FTR	forced treadmill running
GF	germ-free
GI	gastrointestinal
GLUT4	glucose transporter 4
GS	goat serum
GTT	glucose tolerance test
IGPTT	intra-peritoneal glucose tolerance test
MHC	myosin heavy chain
mRNA	messenger ribonucleic acid
OTUs	operational taxonomic units
PBS	phosphate buffered solution
PFA	paraformaldehyde
rRNA	ribosomal ribonucleic acid
SCFA	short-chain fatty acid
SPF	specific pathogen free
ТА	tibialis anterior
VO ₂ max	volume of maximum oxygen consumption
VWR	voluntary wheeling running

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DECLARATION OF ACADEMIC ACHIEVEMENT

N. Saddler was the principal contributor for conceptualizing the research question, research hypothesis, experimental design, data collection, data analysis and data interpretation. G. Parise assisted with research question, research hypothesis, experimental design, and data interpretation. S. Fortino, A. Thomas, and I. Khan assisted with data analysis.

INTRODUCTION

i. Exercise-induced Adaptations in Skeletal Muscle

Skeletal muscle is the largest organ in the human body and integral for metabolic homeostasis in mammalian organisms. In addition, skeletal muscle is one of the largest sites of glucose disposal and assists in regulating fatty acid utilization, attesting to its involvement with energy substrate metabolism¹. Being fundamental to driving locomotion, this tissue, and its adaptations with training, has the capacity to determine the efficiency at which exercise can be performed. Endurance or aerobic exercise refers to activities that increase the activity of the cardiovascular system i.e. heart rate and breathing, for an extended period of time. The physiological and biochemical demands of endurance exercise disrupt homeostasis and induce responses in the systemic environment and skeletal muscle². In response to aerobic stimuli, the human body has the remarkable ability to undergo cellular and structural adaptations, which gives rise to improvements in mechanical, metabolic, and neuromuscular efficiency.

The practice of endurance exercise over a period of weeks, months, or years is referred to as endurance-training and the extent of systemic adaptations are dependant on the duration, intensity, and type of endurance training performed. Considering skeletal muscle makes up 40% of the human body by weight³, the changes that occur in these tissues contribute significantly to whole-body metabolic and physiological adaptations. The phenotypic adaptations of skeletal muscle occur at the level of the individual muscle fibres by improving the peripheral and mechanical properties of muscle^{3–5}. Adaptations

associated with endurance exercise generally include a more oxidative phenotype or a shift toward type I fibre characteristics^{6,7}, i.e. increase in mitochondrial density (mitochondrial biogenesis)^{5,8,9}, increase in capillarization^{10,11}, upregulation of oxidative metabolic enzymes, and an increase in mitochondrial protein content^{7,12–14}.

Tighter regulation of oxidative metabolism is achieved through enhanced delivery and utilization of oxygen at the systemic and cellular level. This can be influenced by the pre-existing distribution of muscle fibres and muscle fibre composition in the host. The skeletal muscle fibres of mammals can generally be categorized into slow-twitch (oxidative) and fast-twitch (glycolytic). Slow-twitch muscle fibres contain myosin heavy chain (MHC) type I, the slow MHC isoform, recognized as type I in mammalian muscle. Fast-twitch muscle fibres contain MHC type II, the fast isoform, recognized as type IIa and IIx in humans, while in rodents it includes type IIa, IIx, and IIb^{15,16}. Type IIa is the most oxidative of the fast twitch muscle fibres in rodents, therefore often prominent in slow muscles¹⁷. The soleus is classified as a slow-twitch oxidative muscle containing predominantly type I and type IIa muscle fibres while the tibialis anterior (TA) is classified as a fast-twitch glycolytic muscle containing mainly type IIx and type IIb muscle fibres¹⁸.

Typical macroscopic measures of training adaptations include measures of VO_2 peak, which is predominantly performed on human models, as well as various other performance tests, such as run or swim to exhaustion, which are typically reserved for assessing animal models. VO_2 peak is a measure of maximum oxygen consumption and is an indicator of cardiorespiratory fitness. Following seven weeks of aerobic exercise on

a cycle ergometer, males had markedly higher VO₂ values than females despite both sexes improving post-training. However, when values were made relative to fat-free mass, sex differences did not persist¹⁹. In rodent models, performance testing in the form of running or swimming to exhaustion is a common practice. In a training study, progressively increasing exercise intensity in rats for three months found that time to exhaustion for the trained group was significantly higher than the untrained group²⁰. The result is the same regardless of whether rodents were trained on a treadmill²⁰ or through voluntary wheel running²¹.

At the cellular level, these adaptations typically manifest as changes in vascularization, fibre type conversion, and mitochondrial function. Reported increases in capillary density have ranged from 15-20%²² and have been noted by Holloszy (1985) to increase up to 30% following an endurance training regime⁷. Standard aerobic training is non-hypertrophic in nature and therefore, in most circumstances, cross-sectional area (CSA) is unchanged^{23,24}. Phenotypic shifts in fibre type tend to occur in response to endurance training in order to become more oxidative or possess more oxidative properties. Joanisse and colleagues (2015) observed an increase in the proportion of hybrid fibres concomitantly with a reduction in type II fibres. This finding of fibre type transitioning is supported by studies which have found exercise-induced adaptations in the oxidative morphology of the gastrocnemius and the tibialis anterior muscles of trained mice. More specifically, in the gastrocnemius, there were increases in the proportion of type I and type IIa fibres²². In the tibialis anterior muscle, increases in type IIa/IIx fibres and associated reductions in type IIb fibres were exhibited in trained mice²³. With respect

to energy metabolism following training, there tends to be a reduction in the utilization of carbohydrates which is compensated by a proportional increase in lipid oxidation. Lastly, findings in both rodent and human models have shown that consistent aerobic training upregulates the activity of mitochondrial enzymes, including citrate synthase (CS), complex II-III, and complex IV (COXIV), as well as markers of beta-oxidation, such as beta-hydroxyacyl dehydrogenase (β -HAD).

ii. The 'Forgotten Organ': Eubiosis and Dysbiosis

The mammalian gut contains a dense collection of microbial communities, harbouring approximately 100 trillion microbial cells. Recent findings in the last decade have recognized these gut microbes as the 'forgotten organ'²⁵, as it has been elucidated that they have a substantial influence on human health. The human gut microbiome is composed of these specialized bacterial microorganisms that inhabit and line the gastrointestinal tract shortly after birth playing a significant role in maintaining health: providing nutrients^{26–28}, bolstering the immune system, and modulating gastrointestinal development^{26,27}.

Another function of the gut microbiota is regulating the production of short-chain fatty acids (SCFA), which have a key role in host energy metabolism. Humans are unable to digest dietary fibre due to absence of the proper enzymes, allowing them to simply pass through the primary segments of the gastrointestinal tract. In the cecum and remainder of the large intestine, the microbial communities ferment the leftover nondigested mass, which produces SCFAs among other 'waste' by-products. The most common SCFAs produced by the resident bacteria are acetate, propionate, and butyrate which are secreted into the gut lumen, absorbed into host circulation eventually landing in specific target organs^{25,29,30}. Typically 95% of the produced SCFAs are absorbed and transported in the bloodstream while 5% are excreted in the feces, which is typically measured as a surrogate for comparing group differences in SCFA production³⁰.

Possessing both human and microbial cells in a 1:1-1:3 ratio, respectively, this coexistence is the reason the human body has come to be referred to as a hybrid organism^{31,32}. The gastrointestinal tract is considered sterile until birth after which microbes begin to colonize the body²⁵, interfering with physiological and immunological development until the host dies. The gut microbiota is highly variable from individual to individual, dependent on maternal influence, as well as cues from the surrounding environment. Environmental factors are able to stimulate the proliferation of specific bacterial colonies while subsequently depleting others. There have been several groupings that have been identified in the mammalian gut including *Firmicutes*, Bacteroidetes, Proteobacteria, Verrucomicrobia, Actinobacteria, Cyanobacteria, and *Fusobacteria*³³. Components of these colonies constituting the microbiome are incorporated into systemic circulation in the host and thus, transported to different organs, all with varying effects^{34,35}. In reference to SCFAs, the primary end product fermented and produced by the *Firmicutes* phylum is butyrate while the *Bacteroidetes* phylum commonly is recognized for producing acetate and propionate³⁰.

Eubiotic status is characterized by a dominating influence of potentially beneficial bacterial species thriving within the gut. This status can be threatened by antibiotic

treatments and pathogens among other factors leading to disharmony and a lack of diversity in bacterial colonies²⁶. Dysbiosis describes this microbial imbalance when it is maladaptive to the host in conditions, such as obesity^{27,28,36–39}, diabetes^{37,38}, and metabolic syndrome^{27,37,38}. Potential therapies have been targeted at this deleterious state including probiotics and prebiotics which may be of importance when considering inflammatory bowel disease and colitis⁴⁰. Although it is also recognized extensively in the literature that diet is influential in shaping the gut microbiome, investigations focusing on the impact of exercise have provided compelling evidence on its effect on bacterial colonies as well as its ability to modulate the deleterious effects of disease on the microbiome.

iii. Exercise and the Microbiome

Physical exertion during endurance exercise induces physiological and biochemical changes in systemic circulation and in the past decade, more focus has shifted toward the impact of exercise on the microbial colonies and conversely the influence of the microbiota on exercise performance. The influence of exercise on microbiota composition was first assessed by Matsumoto et al. (2008), in which they found that there were increases in the concentration of n-butyrate: a short-chain fatty acid synthesized by bacteria in the colon, following 5 weeks of voluntary running in rats. Further analyses found a higher expression of butyrate-producing bacterium, specifically from the *firmicutes* phylum, post-training⁴¹. In humans, six weeks of moderate to vigorous endurance training increased fecal concentrations of acetate, propionate, and

butyrate but seemed to be associated with pre-intervention body mass index status (BMI), as the change was primarily observed in lean subjects. Of interest, when the individuals returned to their previously sedentary behaviour for six weeks, fecal concentrations of the SCFAs returned to pre-intervention levels, thus suggesting that exercise directly influenced gut microbiota function, particularly in SCFA production⁴².

Exercise alone was able to induce significant shifts in the two main bacterial phyla, *Firmicutes* and *Bacteroidetes*, almost to the same extent in directionality and magnitude when compared to the effects of a high-fat diet in a study conducted by Kang et al (2014). Mice performed a forced exercise regime on speed-regulated running wheels causing alterations in the gut microbial community induced by the training. The changes were noted to be orthogonal to those induced by a high-fat diet⁴³. Conversely, voluntary exercise as set by an accessible running wheel within the cage showed an increase in microbiota diversity correlated with total distance run. The balance of *bacteriodetes*, *firmicutes*, as well as *actinobacteria* were all altered following twelve weeks of access to the running wheel³⁹.

It is notable that in the simplest sense, exercise is able to increase the richness and diversity in the microbial communities of the mammalian gut^{39,43–46}. However, there is conflicting evidence in the literature regarding what constitutes the 'optimal' combination of bacterial phyla in the gut. With respect to animal models, exercise in mice and rats was associated with higher *bacteroidetes* and lower *firmicutes* in fecal matter^{39,44}, but cecal microbiota following six weeks of training contained a greater abundance of specific firmicutes species and lower concentrations of the *bacteroides/prevotella* genera⁴⁵. A

similar finding to the latter was found at the phyla level in separate trials – an increase in firmicutes, proteobacteria, and actinobacteria but an exercise-related reduction in *bacteroidetes*^{43,46}. Contradictory findings clearly exist when considering animal models, but it is possible that methodological differences in exercise protocols can explain these differences.

The modality and conditions of the endurance exercise is performed can vastly change the resulting effects on the gastrointestinal physiology in animal models. In a recent investigation by Allen and colleagues (2015), exercise-induced adaptations in the bacterial colonies were compared following two different exercise modalities: six weeks of forced treadmill running (FTR) for a set length and intensity or voluntary wheel running (VWR) with an accessible wheel fixated in the home cage. Contrary to the hypothesis of the investigators, VWR was observed to have the least diverse microbiota in the feces and cecal context according to the α -diversity metric. However, another composition metric, the Shannon Index, exhibited that cecal contents of the VWR group trended towards the highest level of diversity in comparison to the FTR group and the sedentary group. The basis of these metrics is analytically unique meaning that although the VWR group was the least rich, the microbial colonies were more evenly distributed. The significant finding of this investigation though was that forced and voluntary exercise induce contrasting effects on the host microbiome in terms of diversity, structure, and taxonomy. This may be attributed to the differences in microbial colonies as mentioned previously in response to exercise training whether performed in a forced^{43,45} or voluntary^{39,43,44,46} manner.

The relationship between exercise and the microbiota is not restricted to postaerobic training interventions but influenced by general training status as well. Peak VO₂ was found to be positively correlated with increased bacterial diversity, specifically able to account for more than 20% of the variation in taxonomic richness. The predicted functions included an increase in butyrate-producing bacteria and other aspects associated with improved gut health⁴². When comparing trained athletes to untrained individuals, as Clark et al. (2014) did with elite rugby players, the trained athletes possessed a clear increase in diversity as determined using the Shannon Index. BMI was even accounted for, separating untrained persons into low (<25.2) and high (>26.5) BMI subsets and the difference in microbial diversity between athletes and these two groups persisted. Among the top flux changes in relative abundance, *firmicutes* were revealed to be significantly higher than in either the low or high BMI groups – *lactobacillus*, *bacteroides*, and *lactobacillaceae* were found to constitute the lowest proportion⁴⁷. In a follow-up study, a number of correlations were drawn between metabolic pathways, predicted using the composition of the gut, and dietary characteristics including macronutrients⁴⁸. Although it must be acknowledged that diet was not necessarily controlled for and it could not be confirmed or denied that athletes were eating healthier in either investigation^{47,48}. Exploratory analysis from the American Gut Project further elucidated in humans that a shift in performing moderate exercise from never to daily augmented α -diversity with the most significant increase in the *firmicutes* phylum⁴⁹. Although exercise has been shown to influence the gut microbiota and that diet may be a confounding variable, it remains to

be elucidated how the change in gut microbiota may independently affect skeletal muscle health and function.

iv. Use of the Gnotobiotic Mouse Model

A gnotobiotic mouse model is an animal in which only specific known strains of micro-organisms (i.e. bacteria, viruses, parasites, fungi) exist. Therefore, by definition, germ-free mice are an example of a gnotobiotic mouse model. Germ-free mice are void of all microorganisms and can be produced by caesarean section, avoiding bacterial colonization from maternal contact during vaginal birth, or a specialized and sterile embryo-transfer technique. These mouse models allow researchers to examine the symbiotic relationship between specific bacterial colonies and homeostasis, health, and performance⁵⁰. The use of this strain allows for inoculation or colonization of a pre-existing microbiome from a donor to isolate gut and whole-body physiological and functional changes. In the current investigation, the transfer of an 'exercised microbiome' may provide the opportunity to isolate the connection between exercise-trained systemic circulation, skeletal muscle function, and the gut microbiota.

The problem with using germ-free mice is the labour-intensive nature and strict standards of care to protect against contamination and as a result – housing and caring for these animals is extremely costly⁵¹. Gnotobiotic facilities must have extremely restricted access and filtered ventilation with most containing double-door and fail-safe systems to prevent any chance of contamination. In addition, all bacterial presence in food, water, and bedding must be eradicated through extreme heat (above 100°) sterilization

procedures⁵⁰. The high cost and degree of maintenance inspired the use of another method to prevent the influence of pre-existing microbial communities and subsequently allow for reconstitution of the mammalian gut. The use of antibiotic drugs such as ampicillin or vancomyosin eradicates pre-existing bacterial colonies within the gut and is a common treatment to prepare a standard mouse model for a microbiota transplant. Although this method of non-competitive colonization has been used^{52,53} there are notable caveats that must be addressed.

The depletion of microorganisms using antibiotics is by no means, a 'clean' method. It is simply not possible to control for what bacterial colonies will be eradicated and what colonies will endure or develop antibiotic-resistance through treatment. The impact on the microbial communities is not ubiquitous across all subjects treated – and considering the pre-existence of the microbiota, host physiology has already been exposed and influenced regardless of future eradication. Finally, the effect of the antibiotic treatment on host physiology or subsequent repopulation cannot be ignored as there are systemic effects that can be confounding in later analyses⁵¹. Although the gnotobiotic mouse model and germ-free models in specific, are by no means perfect, it avoids the aforementioned technical hindrances when superimposing a new microbial profile.

v. Microbiota Transplantation

The concept of transferring healthy gut microbiota from a donor to a recipient is not a novel approach^{28,29,36,38,52,54–56}. Gnotobiotic mice have been inoculated with fecal

matter from obese and lean donors in several studies^{28,36,54,56} demonstrating a transmissible phenotype driven solely by the influence of gut bacteria.

A mouse to mouse microbiota transfer experiment conducted by Turnbaugh et al. (2006) demonstrated the successful inoculation of gut microbiota from lean and obese donors into germ-free recipients. Remarkably, the transfer induced changes in body mass and microbiota composition reflective of their donors. Further advancing this concept, germ-free mice were colonized with uncultured fecal samples from human twins discordant for obesity intending to 'humanize' the gut of the recipient mice⁵⁶. This served as a proof-of-principle that the fecal transplant technique was viable from a human GI system to a mouse, which indeed elicited microbiota composition changes in the recipients respective to their lean or obese donors. However, the interesting novel finding of this study was seen when obese and lean mice recipients were cohoused for ten days, five days post-inoculation. The recipients of the obese twin microbiota exhibited significantly lower increases in adiposity, similar to their lean counterparts, compared to a group of obese recipients that were not cohoused. Understanding that mice are coprophagic, the authors proposed that the lean mice microbiota was stable and therefore resistant to the obese microbiota and associated obese phenotype⁵⁶. Yet, the obese recipient microbiota was able to be influenced through diversification by particular invasive bacterial colonies in the lean microbiota resulting in the bacterial profiles of the cohoused animals to be indistinguishable.

Microbiota transplants or fecal transplants are not exclusive to animal models – this technique is feasible and currently practiced in humans for treating deleterious

gastrointestinal conditions such as *c.* $difficile^{57}$. The transplant method has been proven to be feasible, effective, and safe in terms of treating gastrointestinal disease in humans but remains unclear whether benefits exist that can be extrapolated beyond the digestive system as has been demonstrated in animal models.

vi. Microbiota Transfer from Exercised Individual

There is only published data from one investigation examining the transfer of exercise-induced changes in microbiota. Allen et al. (2018) colonized gnotobiotic mice with microbiota from recipients that had access to a running wheel for six weeks. Microbial communities clustered and thrived in the germ-free mice in a similar manner to the exercised donor pool – evidence that exercise not only altered the composition of the gut but that these bacterial colonies could be transplanted into another host. The transplanted colonies had functional consequences as shown when comparing exercised-microbiota recipients and sedentary control recipients in terms of distinct inflammatory responses, altered luminal concentrations of microbial-derived metabolites, and attenuated responses to acute colitis insult^{58,59}.

vii. Sex Differences in Microbiota Transplantation

Conflicting data is prominent in the literature concerning the exact sex-based differences in microbial communities or if any with microbiota transfer. In humans, there does not seem to be any sex-based limitations with fecal transplants as currently performed for amelioration of *c. difficile* – the donor and recipient do not need to be the

same sex⁶⁰. However, there is evidence that there is an influence of sex on the development of microbial communities. *Bacteroidetes* appear to be in larger abundances in males than females⁶¹, lining up with cross-sectional data from European countries (France, Germany, Italy, Sweden) revealing that concentrations of the *bacteroides-prevotella* group were significantly higher in males than females⁶². Although there is no apparent or reported sex-based limitations to fecal transplant treatment, in no circumstance does that mean the microbiota colonize and cluster in the same regard and may differ in lasting effects.

Sexual dimorphism exists in mouse models as well – male mice tended to possess a less diverse microbiota compared to females and a greater abundance of *parabacteroides*, a derivative of *bacteroidetes*⁶³, aligning with human data^{61,62}. Sex-based differences in mouse models can be isolated more accurately using methods such as hormone treatment or gonadectomy, adding or removing the influence of sex hormones. A report using these methods found inconsistencies between 89 common inbred strains citing other factors such as diet, age, and host genetic background as analytic noise. The significance of these findings was that the sex-specificity in the relative abundance of particular microbiota colonies had functional consequences including an effect on bile acid profiles and microbiota response when introduced to a high fat or high sugar diet^{64,65}.

A common metric for determining sex-based or post-intervention differences in microbial communities is by identifying and comparing the operational taxonomic units (OTUs). OTUs generally refers to clusters of uncultivated or unknown organisms grouped by similar DNA sequences as analyzed by 16S or 18S rRNA sequencing analytic

software⁶⁶. One study assessing the sexual dimorphism in microbiota transfer found there was sex-based differences in colonization at the level of the phyla, the OTUs, and the diversity metric. Male and female gnotobiotic recipients were inoculated with fecal microbiota from a young adult male subject to a seven-day vegetarian diet supplemented with inulin to increase the abundance of potentially beneficial bacteria. The Shannon index revealed that the inoculation stimulated a more diverse microbiota in female recipients while in males, a greater abundance of bacteroidetes-related species was discovered⁶⁷, following the trends of both animal and human studies^{61–63}. The differences in OTUs were sexually distinct: 46 unique groups of sequences in different abundances between males and females post colonization⁶⁷. The final area of interest is comparing the gut composition of the donor to the recipients in which the divergent nature of the colonization can be truly observed. The transfer stimulated colonies to thrive within the female recipients vastly different than the males causing there to be a much more significant deviation in gut composition similarities when assessing females recipients to the donor in comparison to male recipients and the donor⁶⁷. The sex-based differences in microbial communities, especially following microbiota transplantation, remains a novel and thus exploratory field and should be considered when identifying treatments for gastrointestinal disease and gut-directed responses.

viii. Glucose Metabolism

The homeostatic control of glucose, one of the main fuels for oxidative and nonoxidative metabolism, is influenced by a variety of factors including diet and exercise,

and the response of blood glucose concentration is indicative of metabolic health. The ingestion of a meal containing carbohydrates results in hyperglycaemia and in response, insulin is secreted. Following the secretion of insulin, glucose uptake from the blood occurs at the level of the liver, fat and muscle cells. Glucose handling is influenced by a myriad of factors, all of which are related to the concept of insulin secretion or insulin resistance^{68,69}. Glucose transport is the rate limiting step in glucose metabolism and is mediated by two separate glucose transporter 4 (GLUT4) signaling pathways in skeletal muscle: insulin-mediated glucose uptake and contraction-mediated glucose uptake. Acute bouts of exercise can sensitize skeletal muscle to insulin through contraction-mediated pathways and chronic exercise can improve whole body glucose homeostasis⁷⁰.

A glucose tolerance test is a standard protocol used to assess the homeostatic response to exogenous glucose and identify possible dysfunction. In humans, the test is typically performed after an overnight fast through the oral consumption of a 75g glucose beverage followed by two hours of subsequent blood draws. In mice, this can be performed orally using the gavage technique or through an intra-peritoneal injection following a fast ranging from 3-24 hours⁷¹, dependent on measures of interest. The test is performed typically using bolus concentrations of 10%⁷² to 20/25%^{39,73,74} glucose solution administered at $1^{39,72,73}$, $1.5^{74,75}$, or $2g/kg^{69,72}$ of body weight. As mentioned previously, glucose regulation is influenced by environmental factors, specifically diet and exercise, and therefore the response to this test is dependent on a host of factors.

Habitual diet is especially important as identified by Foley and colleagues (2017), as a high-fat diet can induce gut dysbiosis leading to glucose and insulin intolerance. The

composition of the gut microbiota can influence the postprandial response and therefore how blood glucose is regulated. In this investigation dysbiosis occurred following 1-3 days of ingesting a high-fat diet whereas manifestation of insulin and glucose intolerance occurred by 3-4 days⁶⁹. Although it is not entirely clear how the mammalian microbiome contributes to the progression of glucose intolerance, this elucidates the temporal relationship between gut dysbiosis and glucose/insulin dysregulation. These effects at the level of the gut bacteria can be transferred as shown in an investigation by Vrieze and colleagues (2012). The intestinal colonies from the lean donors were transplanted into individuals with metabolic syndrome significantly increasing their sensitivity to insulin as measured by glucose clearance³⁸. As this data shows, the functional changes in glucose and insulin sensitivity is transmissible through microbiota transplantation.

Exercise is also a significant modulator of glucose and insulin sensitivity. As assessed by Trembley and colleagues (1985), endurance trained athletes had a reduced insulin response to glucose administration yet similar glucose tolerance when compared to untrained individuals. As the authors discussed, the reduced insulin response alludes to increased insulin sensitivity and therefore less insulin secretion to assist the uptake of a similar amounts of glucose from circulation⁷⁶. A similar response was even observed in plasma insulin of obese adults four hours following a single bout of moderate intensity cycling⁷⁷. Although as Trembley mentions, there are other adaptive mechanisms that contribute to the improvement of insulin sensitivity⁷⁶ in endurance trained individuals, it is evident that aspects of glucose metabolism are modulated and improved post-acute and -chronic exercise training.

It must be acknowledged that for individuals with elevated fasting glucose (5.28-6.94mmol/L), the improvements in glucose response following an intervention changing diet and introducing moderate exercise compared to exclusively introducing moderate exercise were not substantially different. Similar improvements were seen between the 6month interventions of solely moderate-intensity exercise (6.4% improvement, effect size 0.60) and the diet + exercise intervention (8.2% improvement, effect size 0.73)⁷⁸. Consistently, when moderate to moderately high aerobic exercise was combined with a diet compared to diet alone, both interventions had reductions in insulin response but OGTT insulin area-under-the-curve was reduced to a greater extent with an intervention of both diet and exercise ⁷⁹.

The combination of exercise and diet is the gold standard for improving glucose metabolism but as further analyses have clarified, both the introduction of exercise and a healthier diet separately are effective at improving postprandial insulin and glucose responses⁸⁰.

ix. Sex Differences in Glucose Metabolism

Sex differences, if any, are critical in understanding the differences in homeostatic response to glucose administration and subsequent insulin secretion. In humans, females tend to have more fat mass and less fat-free mass in comparison to males. Considering muscle is a major metabolically active tissue involved in glucose uptake, the initial comparison determines that women possess an attenuated ability to metabolize the fixed amount of glucose in a GTT as compared to men^{81,82}. However, the high prevalence of

impaired glucose tolerance in females may be artifact as the GTT is not an individualized, relative concentration of glucose but instead is an absolute amount. When males and females were matched for anthropometric measures i.e. height, weight, waist circumference^{83,84}or matched for body composition⁸⁵, minimal differences in glucose absorption were observed in response to an GTT.

There is evidence seen in various strains of mice subjected to a GTT, that female rodents are more insulin-sensitive than their male counterparts. At multiple timepoints following glucose administration, female mice tended to have lower glucose levels than males as well as a greater fall in blood glucose following insulin administration⁸⁶. The data on various strains suggests that female animals are more insulin sensitive than males and although quite the debate in humans, it must be considered in the current investigation.

x. Gut-Muscle Axis

The relationship between gut microbiota and skeletal muscle, deemed the 'gut-muscle axis', was previously coined by Bindels et al. (2013) in a review discussing gut microbes as therapeutic target for cachectic conditions⁸⁷. A unique approach to examining the gut-muscle axis was conducted by Yan et al. (2016), aiming to determine the transmissible properties of skeletal muscle via fecal microbiota transplantation. The investigation found that when germ-free mice were colonized with fecal transplants from pigs that were either of a lean breed or obese breed, the two groups of mouse recipients developed unique body compositions, muscle fibre characteristics, and muscle fibre type distributions.

Specifically, there was a trend toward higher body fat mass in the obese breed recipient mouse population compared to the lean breed recipient mouse population. The fibre diameter and cross-sectional area in the recipient populations followed trends of the donors in which the lean breed recipients trended towards a larger fibre diameter and cross-sectional area in the gastrocnemius muscle. Lastly, the mRNA expression of myosin heavy chain isoforms reflected the common trends as seen with obesity – higher expression of the slow-twitch isoform and reduced expression of the fast-twitch isoform was expressed in the obese breed recipients, which was opposite to the trends in isoform expression in the lean breed recipients³⁶. This novel characterization of a link between gut microbiota and skeletal muscle suggests the transmissible properties of 'healthy' muscle into compromised populations, however it lacks a clear indication of translatable function or performance.

There has only been a single study that has evaluated how exercise performance may be influenced by the gut microbiota. The performance measure used was a swim-to-exhaustion test and was performed in standard specific pathogen-free mice (SPF), gnotobiotic mice (GF), and *bacteroides fragilis* gnotobiotic mice (BF – gnotobiotic mice that had be colonized with *bacteroides fragilis*)⁸⁸. One of the proposed associative functions of the intestinal microbiota involves antioxidant endogenous defense i.e. protecting against oxidative damage, which is crucial during intense exercise when oxidative stress is significant. During exertion, antioxidant enzymes including glutathione peroxidase (GPx), catalase (CAT) and superoxide dismutase (SOD) are responsible for the critical role of preventing oxidative stress and before this trial, it remained to be seen

in what capacity the microbiota was involved in this metabolic pathway and if there was any gut-related regulation of antioxidant enzyme efficiency. The GF mice tested 2.09fold shorter in time to exhaustion than the SPF mice with the BF mice exhausting in between the two groups. Notably, GF mice also possessed significantly lower amounts of CAT and hepatic GPx in comparison to the SPF and BF cohorts⁸⁸. The absence of microbial communities within the gut reduced antioxidant enzyme activities, which the authors suggest may have had an impact on exercise performance. However, the respective data highlights the extent we know concerning microbiota transfers from exercised individuals or revelations on the gut-muscle axis. There remains a plethora of measures of muscle composition and function that have yet to be explored that could further our understanding in this field.



Figure 1: *Gut-Muscle Axis.* Changes induced by diet, exercise, and/or other potent stimuli at the level of the gut microbiota can have resulting effects in other tissues once by-products of bacterial fermentation i.e. SCFAs, ECVs are taken up into systemic circulation. Circulating signalling molecules can have a cascade effect at the skeletal muscle from cellular adaptations to functional and performance adaptations

xi. Objectives and Hypothesis

The purpose of this investigation was to characterize the morphological changes and physiological changes in skeletal muscle function following inoculation from the cecal microbiota of endurance trained donor mice into germ-free recipients. As a proof of concept, we sought to confirm that a forced endurance exercise regime was able to alter the intestinal microbiota composition in addition to supporting the notion that intestinal microbiota influence exercise performance and contribute to skeletal muscle adaptations and the overall health benefits of endurance exercise. We hypothesized that germ-free mice recipients inoculated with the microbiota from endurance trained donors would undergo morphological changes in muscle fibre type composition and physiological changes in skeletal muscle function associated with a more oxidative phenotype. We also hypothesized that metabolic measures and the performance test in germ-free recipients would directionally follow their respective donors.

METHODS

Mice

All experiments were approved by the McMaster University Animal Research Ethics Board (Hamilton, ON, Canada). Eight-week-old male C57BL/6NCrl mice (n=20) were purchased from Charles River Laboratories and maintained on a 12:12 light-dark cycle. Mice were randomly distributed into two groups: one group was subjected to forced endurance exercise training on a motor-driven treadmill (n=10) and the other group was left untrained for the duration of exercise training (n=10). Mice were housed no more than 5 mice per cage and fed a standard chow and water *ad libitum*. Cages containing trained mice and untrained mice were placed on different holding racks inside the housing room and were designated as the "Donor Pool". Germ-free mice (GF) were obtained using the two-stage embryo transfer method in the Farncombe Family Axenic-Gnotobiotic Facility. Male (n=7) and female (n=9) GF mice were aged to 10 weeks and then exported from the Axenic-Gnotobiotic Facility and were colonized by gavaging a cecal-content slurry from the Donor Pool previously mentioned. These GF recipients were colonized every 2 weeks for a total of 4 inoculations, then sacrificed at 8 weeks as shown in Fig. 2. They were housed in clean conditions using ventilated racks and all colonized mice were handled exclusively in the level II biosafety hood to prevent bacterial contamination.



Figure 2: *Time course of inoculations conducted on gnotobiotic mice*. Inoculations were performed on weeks 0, 2, 4, and 6. Fecal samples were taken every two weeks.

Endurance Exercise Training

The endurance exercise regime was conducted on an Exer 6M treadmill (Instruments, Columbus, OH, USA) for 60min (10min warm-up, 45min run, 5min cool-down), 3x a week for 11 consecutive weeks. The warm-up and cool down were performed at a speed of 8m/min. The run started at 12m/min in week 1 and progressed to 20m/min by week 11. Firm wire brushes were used to provide a touch stimulus to encourage running. As a last resort, a light shock using a shock grid at the back of the treadmill was used for motivation when mice ceased to run. Untrained mice were exposed to the treadmill in the 11th week.

Performance Measures

GF recipients were subjected to a run-to-exhaustion protocol, as seen in **Table 1**, adapted from established tests in the literature⁸⁹ to assess running performance. Prior to the exhaustion protocol (48h) both inoculated groups were exposed to the treadmill: stationary for 5min, then 10m/min for 10min.
Duration	Speed (m/min)	Elevation (°)	
0-5 (WARM UP)	10	0°	
5-7	11	0°	
7-9	12	0°	
9-11	13	0°	
11-13	14	0°	
13-15	15	0°	
15-17	16	0°	
17-19	17	0°	
19-21	18	0°	
21-23	19	0°	
23-25	20	0°	
25-27	21	0°	
27-29	22	0°	
29-31	23	0°	
31-33	24	0°	
33-43	25	0°	
43-53	25	5°	
53-63	25	10°	
63-65	26	10°	
65-67	27	10°	
67-69	28	10°	
69-71	29	10°	
71-73	30	10°	

Table 1: Performance Test Protocol – Run to Exhaustion

Mice were considered exhausted when they could no longer keep the pace of the treadmill indicated by remaining on the shocker for ≥ 10 seconds if pedalling or ≥ 5 seconds if all limbs are on the shocker.

Metabolic Measures

All mice were subject to an intra-peritoneal glucose tolerance test (IPGTT) following the completion of the training program or inoculation schedule. Mice were fasted for 6 hours with food removed and bedding changed before initial blood collection via tail vein and then subsequent blood collections following injection of 2g/kg body mass of 10% d-glucose in 1xPBS at timepoints 15, 30, 60 and 120mins. Blood samples were measured using the OneTouch Ultra 2® (LifeScan Europe, Zug, Switzerland).

Animal Euthanasia

All mice were euthanized via cervical dislocation as to not disrupt biochemical processing or morphology of skeletal muscle. The tibialis anterior (TA), extensor digitorum longus (EDL), soleus, gastrocnemius, and quadriceps were harvested and weighed (**Table 2**) – half were snap-frozen in liquid nitrogen and half were mounted in optimal cutting temperature compound (Tissue-Tek; Sakura Finetek, Torrance, CA, USA), cooled in isopentane, and then frozen in liquid nitrogen for immunohistochemical analysis of fibre type composition, cross-sectional area, and capillarization.

Immunohistochemistry

To determine capillarization, TA and soleus muscle sections were stained with CD31 and laminin as previously described⁹⁰. Slides were treated with paraformaldehyde (PFA) for 10 min, washed in PBS with Tween 20, and blocked in 1% BSA and 10% goat serum for 60 min. Slides were incubated in CD31 primary antibody (1:30; 28364; Abcam) overnight at 4°C. Slides were washed and CD31 was detected by using Alexa Fluor 594 goat anti-rabbit (1:500). Slides were then incubated with laminin primary antibody (1:500; ab11575; Abcam) for 2 h at room temperature. Slides were washed, and laminin was detected by using Alexa Fluor 647 goat anti-rabbit (1:500). Nuclei were detected by using DAPI. Capillary-to-individual fibre ratio (C/Fi) was determined as previously described^{91,92} and capillary-to-fibre perimeter exchange index (CFPE) was calculated to act as an estimate of capillary-to-fibre surface area as previously described⁹³, providing a proxy for muscle fibre perfusion. Images were taken with a

CoolSNAP HQ2 fluorescent camera (Nikon Instruments). Images were analyzed by using Nikon NIS elements AR software. C/Fi and CFPE were determined on an average of 75 fibres/animal.

To determine fibre composition, sections were stained according to previously published methods with minor modifications¹⁸. Slides were blocked in 1% BSA and 10% goat serum for 60 min. Slides were then incubated for 120min in a primary antibody cocktail including type I (1:50; BA-F8, DSHB), type IIa (1:100, SC-71, DSHB), and type IIx (1:50, 6H1, DSHB) for the soleus muscle and type I (1:50; BA-F8, DSHB), type IIa (1:100, SC-71, DSHB), and type IIb (1:100, BF-F3, DSHB) for the TA muscle. Following several washes, slides were incubated in a secondary cocktail for 60min consisting of Alexa Fluor 488 IgG_{2b} 1:500 (type I), Alexa Fluor 488 IgG₁ 1:500 (type IIa), and Alexa Fluor 594 IgM 1:500 (type IIx) for the soleus muscle and Alexa Fluor 350 IgG_{2b} 1:500 (type I), Alexa Fluor 488 IgG₁ 1:500 (type IIa), and Alexa Fluor 594 IgM 1:500 (type IIx) for the TA muscle. Following more washes, slides were incubated in wheat germ agglutinin, Alexa Fluor 647 conjugate staining the sarcolemma of muscle fibres.

Fibre-type composition measurements were completed on the entirety of each soleus sample. CSA analyses was completed on the soleus using ~50 muscle fibres each of type I, IIa, and IIx as well as between 10-30 hybrid fibre types – type I/IIa and type IIa/IIx dependent on the number of fibres identified per sample. Muscle fibre types IIx/b and IIb were excluded from CSA analysis in the soleus due to a marginal amount of these fibre types in the soleus muscle.

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Fibre-type composition measurements were completed on the entirety of each TA sample. CSA analyses was completed on the TA using ~50 muscle fibres each of type IIa, IIx, and IIb as well as between 10-30 of hybrid fibre types – type IIa/IIx and type IIx/IIb dependent on the number of fibres identified per sample.

Muscle fibres on the periphery of muscle cross sections were not included in the analysis. All immunofluorescence analyses were completed in a blinded fashion after being assigned a code by another lab-member.

Mitochondrial Enzyme Activity

One piece of muscle (~25 mg) was homogenized in Lysing Matrix D tubes (MP Biomedicals, Solon, OH, USA) using the FastPrep-24 Tissue and Cell Homogenizer (MP Biomedicals, Solon, OH, USA) for 5 x 5-second cycles at a speed of 4.0 m/s with samples placed on ice for 5 minutes between cycles. Samples were homogenized in 20 volumes of buffer containing 70 mM sucrose, 220 mM mannitol, 10mM HEPES, 1mM EGTA, supplemented with protease inhibitors (Complete Mini®, Roche Applied Science, Laval, PQ, Canada). The maximal activities of CS was determined with modification to that previously described¹⁹.

For determination of **CS** maximal activity, 15 μ l of muscle homogenate was added to cuvette containing: 825 μ l 0.1M Tris Buffer (pH 8.0), 100 μ l 5,5'-dithiobis(2nitrobenzoic acid) (DTNB, 0.5mg/mL Tris Buffer) and 10 μ l acetyl CoA (6mg/mL Tris Buffer). The cuvette was warmed to 37°C, and 50 μ L of oxaloacetate (6.1mg/mL Tris buffer) was added to initiate the reaction. Absorbance was recorded at 412 nm for 120 seconds and the slope between 30 and 90 seconds was recorded.

For **COX activity**, oxidized cytochrome *c* (Sigma C7752) was reduced by sodium dithionite in 0.05 M potassium phosphate buffer (KH₂PO₄, pH 7.4). Twenty microliters of muscle homogenate were added to 955 μ L of 0.05 M potassium phosphate buffer and 30 μ L of reduced cytochrome *c* in a cuvette that had been warmed to 37°C. The rate of oxidation of reduced cytochrome *c* was measured at 550 nm for 3 min at 37°C.

For the determination of β -HAD, the following were added to a cuvette that had been warmed at 30°C: 800 µL of Tris buffer (Tris HCl 1 M, EDTA 200 mM; pH 7.0); 10 µL of Triton (10%) and 35 µL of homogenate was added and mixed. Following this, 10 µL of acetoacetyl CoA was added to initiate the reaction. The absorbance was recorded at 340 nm every 2 min for 4 min. CS, COX and β -HAD activity was expressed in nmol/min/mg protein. All enzyme assays have been previously established in the literature^{19,94} and were performed utilizing a spectrophotometer (Cary Bio-300, Varion, Inc., Palo Alto, CA, USA) that had been properly calibrated and zeroed.

Statistical Analysis

To determine physiological changes associated with the transfer microbiota from an exercised animal, 2-way repeated measures ANOVA (group x time) was used to analyze glucose data (0, 15, 30, 60, 120 timepoints) and student's *t* tests were run on all other outcome measures between the groups either colonized with exercise microbiota or sedentary microbiota. Statistically significance was accepted at $p \le 0.05$. Any significant main effects found with the 2-way ANOVA were analyzed by using Sidak's *post hoc* test

for multiple comparisons. Fibre composition and CSA measures were analyzed using multiple t-tests with a Holm-Sidak correction factor to control for family-wise error. All results are presented as means \pm SEM.

RESULTS

Proof of principle: Absolute blood glucose concentration is lower in the exercise group compared to the sedentary group during an IPGTT – (Fig. 3A-i/ii) Absolute blood glucose concentrations during an IPGTT were found to be significantly lower in the exercise group compared to the sedentary group using a two-way repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, absolute blood glucose concentrations from the exercise group were significantly lower than those who remained sedentary at 15mins (23.9 ± 1.91 ; 29.6 ± 0.9 mmol/L, p<0.05) and 30mins (21.5 ± 2.2 ; 27.8 ± 1.6 mmol/L, p<0.05), and 60mins (14.71 ± 1.5 ; 21.1 ± 2.4 mmol/L, p<0.05). There were no significant differences between the exercise group and sedentary group at baseline (9.6 ± 0.6 ; 10.6 ± 0.4 mmol/L) or 120mins (9.4 ± 0.6 ; 13.2 ± 1.1 , mmol/L).

Proof of principle: Absolute glucose area-under-the-curve (AUC) is lower in exercise animals compared to sedentary animals – (**Fig. 3A-iii**) Glucose area-under-the-curve is significantly reduced in the exercise group compared to the sedentary group (1829 ± 150 ; 2493 ± 162 , p<0.01).

Absolute blood glucose concentration is lower in exercised-inoculated animals compared to sedentary-inoculated animals during IPGTT– (Fig. 3B-i/ii) Blood glucose concentrations during an IPGTT were found to be significantly lower in the exerciseinoculated group compared to the sedentary-inoculated group using a two-way repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, blood glucose concentration at 30mins was significantly lower in the exercise-inoculated group as compared to the sedentary-inoculated group (23.4 ± 2.2 ; 29.0 ± 1.9 mmol/L, p<0.05). There were no significant differences between the exercise-inoculated group and sedentary-inoculated group at baseline (10.1 ± 0.5 ; 10.6 ± 0.6 mmol/L), 15mins (25.2 ± 1.6 ; 29.4 ± 1.4 mmol/L), 60min (16 ± 1.2 ; 19.5 ± 1.1 mmol/L), or 120mins (11.2 ± 0.2 ; 12.0 ± 1.4 mmol/L).

Absolute glucose area-under-the-curve (AUC) is lower in exercise-inoculated animals compared to sedentary-inoculated animals – (Fig. 3B-iii) Glucose area-under-the-curve is significantly reduced in the exercise-inoculated group compared to the sedentary-inoculated group (2005 ± 111 ; 2401 ± 82 , p<0.05).



Figure 3. Blood glucose response, as expressed in absolute values, during an IPGTT. The following set of graphs denote the absolute blood glucose concentration as measured by tail vein following the administration of a bolus of glucose (2g/kg, 10% glucose solution) at timepoint 0min. (i) glucose values during IPGTT at timepoints 0, 15, 30, 60, 120mins; mean \pm SEM (ii) illustration of glucose AUC (iii) box and whisker plot of glucose AUC, box denotes median, 25th and 75th percentiles, whiskers representing the maximum and minimum values. The IPGTT was conducted on the (A) Exercise and sedentary donors (B) exercise-inoculated and sedentary-inoculated groups. *, p<0.05 for exercise v.s. sedentary or exercise-inoculated v.s. sedentary-inoculated.

Proof of principle: Changes in blood glucose concentrations from baseline are lower in the exercise group compared to sedentary group during an IPGTT – (Fig. 4A-i/ii) The changes in blood glucose concentrations from baseline during an IPGTT were found to be significantly lower in the exercise group compared to the sedentary group using a twoway repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, the changes in blood glucose concentrations from baseline were significantly lower in the exercise group compared to the sedentary group at 30mins (11.9 ± 1.9; 17.1 ± 1.4 mmol/L, p<0.05) and 60mins (5.3 ± 1.4; 10.5 ± 2.1 mmol/L, p<0.05) and close to significance at 15mins (14.4 ± 1.5; 19.0 ± 0.9 mmol/L, p=0.06). There were no significant differences between the exercise group and sedentary group at 120mins (-0.1 ± 0.6; 2.6 ± 1.0 mmol/L).

Proof of principle: The change in glucose area-under-the-curve (AUC) was not different between the exercise group and sedentary group – (**Fig. 4A-iii**) The change in glucose area-under-the-curve was not statistically different between the exercise group and sedentary group (695 ± 123 ; 1217 ± 130 , p<0.01).

Changes in blood glucose concentrations from baseline are lower in the exerciseinoculated group compared to sedentary-inoculated group during an IPGTT – (**Fig. 4Bi/ii**) The changes in blood glucose concentrations from baseline during an IPGTT were found to be significantly lower in the exercise-inoculated group compared to the sedentary-inoculated group using a two-way repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, blood glucose concentration at 30mins was significantly lower in the exercise-inoculated group compared to the sedentary-inoculated group (12.04 ± 2.4 ; 18.3 ± 1.9 mmol/L, p<0.01). There were no significant differences between the exercise-inoculated group and sedentary-inoculated group at 15mins (15.1 ± 1.5 ; 18.8 ± 1.7 mmol/L), 60mins (5.9 ± 1.5 ; 8.5 ± 1.4 mmol/L), or 120mins (1.1 ± 0.4 ; 1.4 ± 0.8 mmol/L).

The change in glucose area-under-the-curve (AUC) was not different between the exercise-inoculated group and sedentary-inoculated group – (Fig. 4B-iii) The change in glucose area-under-the-curve was not statistically different between the exercise-inoculated group and sedentary-inoculated group (791 \pm 138; 1081 \pm 100).



Figure 4. Blood glucose response, as expressed by change from baseline, during an IPGTT. The following set of graphs denote the Δ blood glucose concentration relative to baseline (0min). (i) Δ glucose values relative to baseline during IPGTT at timepoints 0, 15, 30, 60, 120mins; mean \pm SEM (ii) illustration of Δ glucose AUC relative to baseline, (iii) box and whisker plot of Δ glucose AUC relative to baseline, box denotes median, 25th and 75th percentiles, whiskers representing the maximum and minimum values. The IPGTT was conducted on the (A) Exercise and sedentary donors (B) exercise-inoculated and sedentary-inoculated groups. *, p<0.05 for exercise v.s. sedentary or exercise-inoculated v.s. sedentary-inoculated.

Absolute blood glucose concentration is lower in exercised-inoculated female animals compared to sedentary-inoculated female animals during IPGTT – (Fig. 5A-i/ii, 5B-i/ii) Blood glucose concentrations during an IPGTT were found to be significantly lower in the female exercise-inoculated animals compared to the sedentary-inoculated animals using a two-way repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, blood glucose concentration was significantly lower in the exercise-inoculated group as compared to the sedentary inoculated group at 15mins (28.4 \pm 2.4; 30.6 \pm 1.1 mmol/L, p<0.05) and 30mins (24.7 \pm 3.6; 29.9 ± 2.4 mmol/L, p<0.01). There were no significant differences between female animals in the exercise-inoculated group and sedentary-inoculated group at baseline (10.1 \pm 1.0; 10.0 \pm 0.8 mmol/L), 60mins (17.4 \pm 2.0; 20.0 \pm 3.9 mmol/L) or 120mins (11.4 \pm 0.3; 10.9 ± 1.7 mmol/L). No significant differences were found between male animals in the exercise-inoculated group and sedentary-inoculated group at baseline $(10.1 \pm 1.0;$ $11.5 \pm 0.9 \text{ mmol/L}$, 15mins (28.4 ± 2.4; 27.4 ± 3.2 mmol/L), 30mins (24.7 ± 3.6; 26.8 ± 3.3 mmol/L), 60mins (17.4 \pm 2.0; 20.3 \pm 1.0 mmol/L) or 120mins (11.37 \pm 0.3; 14.8 \pm 0 mmol/L).

Changes in blood glucose concentrations from baseline are lower in the exerciseinoculated female group compared to female sedentary-inoculated group during an *IPGTT* – (**Fig. 5A-iii/iv, 5B-iii/iv**) The change in blood glucose concentrations from baseline during an IPGTT were found to be significantly lower in the female exerciseinoculated group compared to the sedentary-inoculated group using a two-way repeated measures ANOVA (group x time). Following post-hoc analyses using Sidak's test for multiple comparisons, the change in blood glucose concentration relative to baseline was identified to be significant between the exercise inoculated group and the sedentary inoculated group at 15mins (12.3 ± 1.9 ; 20.6 ± 0.8 mmol/L, p<0.01) and 30mins ($10.2 \pm$ 2.6; 19.9 ± 2.1 mmol/L, p<0.001). There were no significant differences between female animals in the exercise-inoculated group and sedentary-inoculated group at 60mins ($4.9 \pm$ 1.5; 8.8 ± 2.5 mmol/L) or 120mins (1.0 ± 0.5 ; 0.94 ± 1.1 mmol/L) No significant differences were found between male animals in the exercise-inoculated group and sedentary-inoculated group at 15mins (18.0 ± 1.0 ; 15.9 ± 4.1 mmol/L), 30mins ($16.5 \pm$ 3.8; 15.9 ± 3.9 mmol/L), 60mins (7.3 ± 3.0 ; 8.0 ± 0.4 mmol/L), 120mins (1.2 ± 0.8 ; $2.5 \pm$ 0.7 mmol/L).



Figure 5. Sex differences in glucose response to IPGTT. The following set of graphs denote the sex differences in absolute blood glucose concentration and Δ relative to baseline (0min). (i) absolute glucose values; mean \pm SEM (ii) illustration of absolute glucose AUC (iii) Δ glucose relative to baseline; mean \pm SEM (iv) illustration of Δ glucose AUC relative to baseline. Graphical representations are separated by sex (A) Male (B) Female. *, p<0.05 for exercise inoculated v.s. sedentary inoculated.

No sex-based differences in absolute or relative to baseline values for glucose-areaunder-the-curve (AUC) measures (Fig. 6A-i/ii, 6B-i/ii)– Absolute glucose-area-underthe-curve was not statistically different between exercise-inoculated and sedentaryinoculated groups in males (2182 ± 117 ; 2419 ± 56) and females (1872 ± 149 ; $2219 \pm$ 199). Change in glucose area-under-the-curve was not statistically different between exercise-inoculated and sedentary-inoculated groups in males (1352 ± 422 ; 937 ± 134) and females (660 ± 156 , 1043 ± 161).



Figure 6. Sex differences in glucose AUC during IPGTT. The following set of graphs denote the sex differences in glucose area-under-the-curve during an IPGTT (i) box and whisker plot of glucose AUC, (ii) box and whisker plot of Δ glucose AUC relative to baseline, box and whisker plot of box denotes median, 25th and 75th percentiles, whiskers representing the maximum and minimum values. Graphical representations are separated by sex (A) Male (B) Female.

No differences in proportions of fibre types in the TA or soleus muscles of the exercise inoculated group compared to the sedentary inoculated group – (**Fig. 7A, 7B**) There were no significant differences in the relative proportions of fibre types between the exercise-inoculated group and sedentary-inoculated group in the TA (I (2.5 ± 0.8 ; $1.8 \pm$ 0.8 per 100 fibres) \leftrightarrow I/IIa (3.4 ± 1.0 ; 1.7 ± 0.6 per 100 fibres) \leftrightarrow IIa (10.1 ± 1.5 ; $9.3 \pm$ 1.4 per 100 fibres) \leftrightarrow IIa/x (7.2 ± 0.7 ; 8.9 ± 1.3 per 100 fibres) \leftrightarrow IIx (21.9 ± 3.6 ; $24.9 \pm$ 2.1 per 100 fibres) \leftrightarrow IIx/IIb (6.8 ± 1.7 ; 3.4 ± 1.7 per 100 fibres) \leftrightarrow IIb (53.9 ± 3.3 ; $55.9 \pm$ ± 3.4 per 100 fibres)) the soleus (I (52.2 ± 2.6 ; 58.8 ± 3.4 per 100 fibres) \leftrightarrow I/IIa ($0.8 \pm$ 0.2; 0.6 ± 0.1 per 100 fibres) \leftrightarrow IIa (37.0 ± 2.4 ; 31.1 ± 3.3 per 100 fibres) \leftrightarrow IIa/x \leftrightarrow IIx (5.8 ± 1.8 ; 8.3 ± 0.7 per 100 fibres) \leftrightarrow IIx/IIb (0.3 ± 0.2 ; 0.4 ± 0.03 per 100 fibres) \leftrightarrow IIb (0.1 ± 0.06 ; 0.1 ± 0.05 per 100 fibres)).

No differences in CSA between groups in the TA or soleus muscles– (Fig. 7C, 7D) There were no significant differences in cross-sectional area (CSA) when comparing the exercise-inoculated group to the sedentary-inoculated group in the TA (IIa (869.8 ± 61.2; 908.4 ± 31.5 μ m²) \leftrightarrow IIa/x (1231.7 ± 83.0; 1208.9 ± 117.3 μ m²) \leftrightarrow IIx (1595.9 ± 111.5; 1503.9 ± 63.7 μ m²) \leftrightarrow IIx/b (1770.2 ± 76.7; 1616.3 ± 181.6 μ m²) \leftrightarrow IIb (3014.1 ± 112.7; 2988.8 ± 105.6 μ m²) or soleus (I (1342.9 ± 92.4; 1353.0 ± 119.1 μ m²) \leftrightarrow I/IIa (1042.0 ± 115.5; 924.5 ± 81.7 μ m²) \leftrightarrow IIa (1209.1 ± 68.4; 1237.7 ± 105.6 μ m²) \leftrightarrow IIa/x (1497.8 ± 145.3; 1399.7 ± 147.1 μ m²) \leftrightarrow IIx (1640.5 ± 142.4; 1587.1 ± 218.0 μ m²).



Figure 7. *Fibre Type Composition and CSA Measures.* The composition of muscle fibres in terms of fibre type and cross-sectional area was analyzed using immunohistochemical staining. Fibre proportions across spectrum of muscle fibre types present in mouse muscle tissue were measured in the (A) TA (B) Soleus. Cross-sectional area was measured in the (C) TA (D) Soleus. Data are shown as mean \pm SEM.

No differences in capillary density between groups – (**Fig. 8A-i/ii, 8B-i/ii**) There was no significant differences in capillary density as assessed by capillary-to-fibre ratio (C/Fi) when comparing the exercise-inoculated group to the sedentary-inoculated group in the TA (1.69 ± 0.14 ; 1.48 ± 0.07) or the soleus (1.55 ± 0.07 ; 1.46 ± 0.08). There were no differences between the inoculated groups in the TA specific to males (1.86 ± 0.21 ; 1.64 ± 0.08) or females (1.52 ± 0.18 ; 1.38 ± 0.08) and no differences in the soleus specific to males (1.59 ± 0.13 ; 1.39 ± 0.11) or females (1.51 ± 0.06 ; 1.51 ± 0.10).

No differences in a proxy measure of muscle perfusion between groups – (Fig. 8A-iii/iv, 8B-iii/iv) There was no significant differences in capillary-to-fibre perimeter exchange ratio (CFPE) when comparing the exercise-inoculated group to the sedentary-inoculated group in the TA (6.02 ± 1.3 ; 4.63 ± 0.95) or the soleus (11.24 ± 0.57 ; 9.79 ± 0.66). There were no differences between inoculated groups in the TA specific to males (10.47 ± 1.2 ; 8.62 ± 0.41) or females (9.14 ± 1.17 ; 8.39 ± 0.45) and no differences in the soleus specific to males (11.85 ± 0.99 ; 8.66 ± 1.19) or females (10.55 ± 0.41 ; 10.64 ± 0.63).



Figure 8. *Capillarization Measures.* Capillary density was measured using capillaries-per-fibre (C/Fi). A proxy measure of skeletal muscle perfusion was measured using capillary density in respect to the perimeter of respective skeletal muscle fibres known as the capillary to fibre exchange index (CFPE). (i) and (iv) denote the sex-collapsed data. (ii) and (iii) denote the results separated by sex. These analyses were conducted in (A) TA (B) Soleus. Data are shown as mean \pm SEM.

Higher enzymatic activity of COXIV in the TA muscles of the exercise inoculated group exclusively in males – (**Fig. 9**) COXIV activity was significantly higher in the TA of the males inoculated with exercised-microbiota compared to males inoculated with sedentary-microbiota (223.7 ± 28.06; 107.2 ± 24.94 nmol/min/mg, p<0.05). There were no significant differences between exercise-inoculated and sedentary-inoculated animals in the TA (136.7 ± 35.72; 74.25 ± 14.07 nmol/min/mg) or the soleus (287.3 ± 37.64; 341.4 ± 38.47 nmol/min/mg). There were also no significant differences between groups in the TA in females (49.82 ± 11.42; 54.51 ± 10.38 nmol/min/mg) and no significant differences in the soleus specific to males (332.1 ± 34.52; 369.0 ± 48.99 nmol/min/mg) or females (242.5 ± 63.88; 324.8 ± 56.93 nmol/min/mg).



Figure 9. *Maximal activity of mitochondrial enzymes – COXIV.* For each muscle data has been shown with the entire cohort and separated by sex (A) Activity in the TA (B) Activity in the soleus. *, p<0.05 exercise inoculated v.s. sedentary inoculated. Data are shown as mean ± SEM.

No differences in maximal CS activity between groups – (**Fig. 10**) There were no significant differences in the maximal activity of citrate synthase between the exercise-inoculated group or sedentary-inoculated group in the TA (339.9 ± 18.51 ; 310.9 ± 14.06 nmol/min/mg or the soleus (422.0 ± 35.29 ; 508.3 ± 52.00 nmol/min/mg). There were also no significant differences between groups in the TA specific to males (354.6 ± 33.52 , 325.0 ± 22.46 nmol/min/mg) or females (325.3 ± 18.23 ; 302.5 ± 18.84 nmol/min/mg) and no significant differences in the soleus specific to males (421.3 ± 62.63 ; 563.4 ± 85.51 nmol/min/mg) or females (422.8 ± 43.48 ; 475.2 ± 68.19 nmol/min/mg).



Figure 10. *Maximal activity of mitochondrial enzymes* – *CS*. For each muscle data has been shown with the entire cohort and separated by sex (A) Activity in the TA (B) Activity in the soleus. *, p<0.05 exercise inoculated v.s. sedentary inoculated. Data are shown as mean \pm SEM.

No differences in maximal β -HAD activity between groups – (**Fig. 11**) There were no significant differences in the maximal activity of β -HAD between the exercise-inoculated group or sedentary-inoculated group in the TA (70.03 ± 3.04; 62.90 ± 2.40 nmol/min/mg). There were also no significant differences between groups in the TA specific to males (73.88 ± 4.40; 74.03 ± 6.64 nmol/min/mg) or females (66.18 ± 3.72; 62.15 ± 3.36 nmol/min/mg).



Figure 11. *Maximal activity of mitochondrial enzymes* – β -*HAD*. Muscle data has been shown with the entire cohort and separated by sex (A) Activity in the TA. *, p<0.05 exercise inoculated v.s. sedentary inoculated.

No performance differences between exercise inoculated animals and sedentary inoculated animals – (Fig. 12) There were no differences between the exercise-inoculated group and the sedentary-inoculated group (47.6 \pm 4.7; 50.1 \pm 4.6 mins) when subject to a run-to-exhaustion performance test.



Figure 12. *Performance Test – Run to Exhaustion.* Performance test values in a run-to-exhaustion challenge on a rodent treadmill recorded during the 8^{th} week. Box and whisker plot denoting the median, 25^{th} and 75^{th} percentiles, whiskers representing the minimum and maximum values of the respective datasets.

DISCUSSION

The current investigation is the first to assess metabolic, physiological, and functional changes in skeletal muscle following a transfer of microbiota from an exercised animal. Exercise is a potent stimulus for a myriad of responses at the level of skeletal muscle and more recently revealed, the gastrointestinal tract. We aimed to isolate the influence of endurance training on the gut microbiome and subsequent impact on whole-body physiology through transfer of cecal microbiota content from endurancetrained and untrained donors into germ-free recipients. The current findings offer a unique approach to further elucidating the relationship between skeletal muscle and the gut, coined as the gut-muscle axis⁸⁷. Furthermore, this study is the first to identify sexdependent adaptations following the transfer of microbiota from an exercised animal. To our knowledge, only one other investigation has conducted microbiota transfers from exercise individuals; this study did not assess any changes in substrate metabolism or physiological changes in skeletal muscle⁹⁵. Therefore, analyses of mammalian glucose metabolism, skeletal muscle fibre morphology, vascularization, and mitochondrial enzyme activity between exercised-inoculated and sedentary inoculated groups are all novel research contributions.

The Influence of Microbiota Transfers on Glucose Metabolism

Differences in glucose metabolism were assessed in the inoculated groups as well as the donor groups by subjecting animals to an IPGTT. Prior to IPGTT, animals were weighed and as expected due to training, the exercise group had a lower mass than the sedentary group. The test results were not caused by this, as the exercise-inoculated group had a higher mass than the sedentary-inoculated group specifically in the females.

It has been well established that both acute and chronic exercise sensitize the muscle, optimizing insulin-dependent and -independent pathways and subsequently improving glucose uptake⁷⁰. Therefore, as expected, endurance training resulted in improved glucose clearance compared to sedentary counterparts whether measured in absolute blood glucose concentration or as a change relative to baseline values. Remarkably, when the cecal contents of these rodents were extracted and used to colonize two distinct germ-free sets of rodents, the improvements in glucose handling persisted. Although the improvements are isolated to the 30min timepoint in the exercise-inoculated group, this is consistent with the significant timepoints in the donors. Moreover, the 30min timepoint, whether measured in absolute blood glucose or change relative to baseline values, was significantly reduced indicating better glucose clearance in both the exercise-trained and in the exercise-inoculated animals.

The influence of the gut microbiota on glucose regulation has been extensively studied in humans and mouse models. Methods such as 16S/18S/OTU functional sequencing and microbiota transplantation have been utilized to investigate the effect of gut bacteria on glucose uptake. Bacterial colonies are restricted to the confines of the gastrointestinal tract; however, Choi and colleagues (2015) investigated extra-cellular vesicles secreted by the microbiota that penetrate the intestinal barrier and are transported via systemic circulation to various organs and tissues. Specifically of interest, were

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insulin-responsive target organs such as skeletal muscle and adipose tissue. It was revealed that the gut microbe-derived extra-cellular vesicles directly interfered with insulin-dependent pathways and thus overall glucose metabolism⁹⁶. By extension, bacterial communities used to colonize the recipient groups may have influenced glucose clearance through the secretion of extra-cellular vesicles. This may suggest that microbiota-induced modulation of the insulin-dependent pathway in skeletal muscle and adipose tissue were related to insulin sensitivity and/or insulin production and secretion.

Aside from extra-cellular vesicles, glucose homeostasis could also be related to one of the innate functions of the gut microbiota: the production of SCFAs that are delivered to various organs and tissues via systemic circulation^{25,29,30}. Knowing that exercise elicits beneficial changes in the gut microbiota leading to increased SCFA production⁴², it can be proposed that SCFA may interfere with glucose metabolism due to increased availability of short chain fatty acids. This concept of interference has been proposed by several researchers^{97,98} and would support the notion of the isolated impact of gut microbiota on glucose metabolism especially following a microbiota transplant.

Glucose AUC is lower in the exercise group as well as the exercise inoculated group in absolute glucose concentration compared to their respective sedentary counterparts. However, the exercise inoculated group fails to reach statistical significance for AUC when values are expressed as the change relative to baseline. This may be explained by the fact that an N of 8 may simply be underpowered to achieve statistical significance. To achieve a statistical power of 0.8, a sample size of 72 is required for this particular relationship.

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Sex dependent analyses on the same data revealed that female recipients drove the benefit of exercise microbiota on glucose clearance. Exercise-inoculated females had lower absolute blood concentrations at 15, 30, and 60mins compared to the sedentaryinoculated females, and these lower values persisted at the 15 and 30 mins timepoints when values were made relative to baseline. The difference between exercise-inoculated males and females was close to statistical significance at 30min (p=0.07) so it can be suggested that with an increase in N, the difference would be significant. The rationale for this sex-based discrepancy may reside in notable sex-based differences in insulin sensitivity⁸⁶. Although it has been mentioned that acute exercise can improve glucose metabolism through insulin-independent pathways i.e. contraction stimulated GLUT4 translocation, it is also well established that acute and chronic exercise can modulate insulin-dependent pathways as well. If females naturally have higher insulin sensitivity, the addition of transplanted microbiota from an exercised individual could hypothetically lead to a synergistic increase in insulin sensitivity and an improved glucose response. This finding is an example of how critical it is to account for possible dichotomous responses due to sex-based physiological differences.

The Influence of Microbiota Transfers on Vascularization and Mitochondrial Enzyme Activity

No statistically significant differences were found between exercise inoculated and sedentary inoculated animals in measures of capillarization or select mitochondrial enzymes (CS, COXIV, β -HAD). There was a significantly higher rate of activity in COXIV exclusively in the TA of the exercise inoculated group, however caution must be used when interpreting this finding. The absence of similar findings in the other mitochondrial enzymes measured restrict plausible explanations for this isolated finding and it may be suggested that this lone significant difference is due to type I error.

The Influence of Microbiota Transfers on Exercise Performance

No significant differences were found between the exercise-inoculated group and sedentary-inoculated group during the performance run-to-exhaustion test. Despite differences in muscle physiology between the two inoculated groups, there was no functional benefit as depicted from the chosen performance test. Run-to-exhaustion tests are used widely through the literature as an indicator of functional performance^{89,99–102}, however, it must be addressed that several of these investigations include compromised mouse models^{99,101,102} that innately restrict exercise capacity. This changes the nature of these investigations from enhancements in performance to recovery or rescue in performance respective to a healthy model. Our investigation does not involve the amelioration of a pathology or other condition directly causing a performance decrement; the animals used in this study are naïve to bacterial colonization but are otherwise healthy. As shown in a study comparing colonized and uncolonized rodents⁸⁸, animals inoculated with even a single bacterial strain perform better than germ-free animals. Based on this observation, we assume that both inoculated groups would improve performance with inoculation as compared to in the germ-free condition. Therefore, any subtle performance benefit due to the microbiota transplanted may not have been realized

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in this study due to the relatively small number of mice tested. Additionally, the performance protocol for the run-to-exhaustion performance test may not have been optimal. Protocols in the literature vary in time, speed and/or incline adjustments, and objective indication of fatigue among other issues generate conflict and discrepancy when attempting to compare results from various studies. In addition to the absence of a standardized protocol, the genetic variability between different mouse strains is a unavoidable issue¹⁰³, all of which impact performance.

Modifications to the Current Investigation

Upon completion of this phase of the project, there are future considerations to be made with follow-up or associated work. The breeding and production of gnotobiotic mice takes exceedingly longer than originally was anticipated and as a result, within the confined timeline of experiments, a sample size of 16 divided between exercised inoculated and sedentary inoculated was achieved. In hindsight, the breeding should have occurred concomitant with the exercise training of the donors so to reduce lapse time (which equated to several months).

Inoculum material were prepared through diluting frozen cecal contents from the donors with phosphate-buffered solution. As demonstrated by Turnbaugh and colleagues (2009), the integrity of the transfer is not compromised through freezing the sample¹⁰⁴. It must be acknowledged that the bacterial colonies extracted from the donors and transplanted into the recipients were exclusively from the cecum. However, fecal samples were taken every two weeks, as illustrated in **Fig. 1**, and based off observations by Denou

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et al. (2016), measures of phylum and bacterial diversity in the feces are highly representative of those in the cecum and distal colon, so changes can be tracked through sequencing. Exercise had similar effects in the distal colon and feces in the aforementioned study¹⁰⁵ and therefore it is justified that the cecal content would be representative of the exercise-induced effects in the donors in the current investigation. Although there is confidence in this facet of the microbiota transfer procedure, we did not control for the number of bacteria and/or number of live bacteria in the inoculum. To the credit of this investigation, the mass of cecal content diluted and inoculum dosages every two weeks were consistent and as mentioned, the changes in bacterial composition following inoculation can still be tracked by sequencing the fecal samples of the gnotobiotic recipients.

The performance measure used in the current investigation has been critiqued, however there is two unique and reliable approaches that could be utilized in a future investigation: a swim to exhaustion test^{106–110} and wire hang test^{110–112}. As mentioned previously, there are inconsistencies in the literature concerning exhaustion and thus termination of a treadmill test. Cessation of the test may be due to inability to keep pace with the treadmill^{99,101}, consistent "pedalling" (sitting on the shocker using only forelimbs)¹⁰⁰, a specific time spent on the shocker i.e. 5 seconds⁸⁹ or an otherwise ambiguous statement denoting exhaustion when mice do not stay on the treadmill¹⁰². The use of shock grids is inconsistent as well with some studies opting out for more innocuous stimuli such as tongue depressors¹⁰⁰, bristles¹⁰¹, or aerosol sprays⁹⁹. Although, the problem arises in which mice may climb on the first two listed tools and compromise

the test. The swim to exhaustion test and wire hang test remove the ambiguity associated with complete fatigue during a run to exhaustion test. The threat of drowning is a potent motivator and as such, complete fatigue is exceedingly more reliable when a mouse swims for survival. Once mice are acclimated to the methods of the hang test as well, the end point is binary. If the mouse lets go of the wire cage and falls, the cessation of the test is unequivocal.

Regardless, the remainder of the technical methods in this paper were reliable measures analysing what was intended to be analysed. As indicated by the proof of principle measures in the donors during IPGTT, the exercise training was a potent stimulus and induced distinct responses between trained and untrained donor groups.

Future Directions

The objective of the current investigation was to delve into the novel concept of the gut-muscle axis, intending to assess the skeletal muscle physiological adaptations induced by a transfer of microbiota from exercised mice into germ-free mice. Observations suggest that proliferation of specific beneficial bacterial colonies during exercise can be transferred to another host through a cecal transplant resulting in improvements in glucose clearance during an IPGTT.

The future direction of this research should aim to focus on glucose metabolism and performance/functional aspects of this field. The use of fecal transplants in humans is currently a viable and safe medical practice and the breadth of the technique in medicine can be expanded dependent to this research. Glucose metabolism is especially important to those suffering from conditions such as type II diabetes, and to suggest the involvement of the microbiota in attenuating the pathology or improving glucose homeostasis bears high relevance. Further research is merited into transferring microbiota from trained individuals and examining local and systemic effects. In summary, it was evident that following a transfer of microbiota from exercised animals, there were improvements in glucose homeostasis, the significance of which was driven by the glucose response of female animals.

APPENDIX I: SUPPLEMENTARY TABLES, FIGURES, IMAGES

	Exercise Donors	Sedentary Donors	Exercise Inoculated	Sedentary Inoculated
Heart	157.2 ± 9.8 mg	153.2 ± 6.3 mg	156 ± 9.4 mg M: 167.4 ± 12.1 mg F: 147.4 ± 13.4 mg	144.8 ± 10.7 mg M: 155.9 ± 19.7 mg F: 136.4 ± 12.2 mg
ТА	44.3 ± 2.3 mg	44.3 ± 1.7 mg	45.4 ± 1.7 mg M: 44.8 ± 2.4 mg F: 46.0 ± 2.6 mg*	39.9 ± 3.4 mg M: 50.1 ± 3.8 mg F: 32.2 ± 3.3 mg*
EDL	16.2 ± 1.7 mg	13.8 ± 1.2 mg	16.7 ± 2.3 mg M: 17.5 ± 2.9 mg F: 15.9 ± 3.6 mg	14.1 ± 2.2 mg M: 18.9 ± 3.8 mg F: 10.5 ± 1.8 mg
Soleus	$10.4 \pm 0.6 \text{ mg}$	12.2 ± 1.1 mg	9.4 ± 0.6 mg M: 9.0 ± 1.0 mg F: 10.1 ± 1.3 mg*	8.1 ± 0.8 mg M: 9.9 ± 0.8 mg F: 6.6 ± 0.4 mg*
Quad	$174.5 \pm 8.0 \text{ mg}$	186.6 ± 7.5 mg	159.6 ± 3.8 mg M: 158.7 ± 6.0 mg F: 160.5 ± 5.2 mg*	151.7 ± 7.9 mg M: 172.2 ± 11.5 mg F: 136.3 ± 7.3 mg*
Gastroc	162.8 ± 10.9 mg	178.9 ± 12.4 mg	162.9 ± 7.3 mg M: 160.1 ± 11.8 mg F: 170.3 ± 20.2 mg*	146.8 ± 10.8 mg M: 165.8 ± 9.3 mg F: 129.2 ± 7.4 mg*

Table 2: Mass of Harvested Muscles

Values are means \pm SEM. Exercise Donors N=9, Sedentary Donors N=10, Exercise Inoculated N=8, Sedentary Inoculated N=8. TA refers to tibialis anterior, EDL refers to extensor digitorum longus, Quad refers to quadriceps, Gastroc refers to gastrocnemius.

No statistically differences were found between the exercise and sedentary donors.

*, p<0.05 exercise inoculated v.s. sedentary inoculated within sex


Figure 13. *Body mass.* (A) Absolute body mass at weeks 0, 2, 4, 6 as well as before the IPGTT and sack (B) Change in body mass every 2 weeks (C) Absolute body mass in exercise and sedentary donors prior to IPGTT. Data are presented in box and whisker plots – the box denoting the median, 25^{th} and 75^{th} percentiles, whiskers representing the minimum and maximum values of the respective datasets. p<0.05 exercise inoculated v.s. sedentary inoculated.



Figure 14. *Body Mass – Sex-Specific.* (A) Absolute body mass in males and females at weeks 0, 2, 4, 6 as well as before the IPGTT and sack(B) Change in body mass every 2 weeks in males and females (C) Individualized absolute body mass in males and females at weeks 0, 2, 4, 6 and Sack. Data in (A) and (B) are presented in box and whisker plots – the box denoting the median, 25^{th} and 75^{th} percentiles, whiskers representing the minimum and maximum values of the respective datasets. *, p<0.05 exercise inoculated v.s. sedentary inoculated within sex.





Figure 15. *Collapsed data of donor groups and recipient groups.* The following set of graphs denote blood glucose responses to an IPGTT and glucose area-under-the-curve during an IPGTT in both donor groups and both inoculated groups, as expressed in absolute concentrations and concentrations relative to baseline. (A) absolute glucose values during IPGTT at timepoints 0, 15, 30, 60, 120mins; mean (B) Δ glucose values relative to baseline during IPGTT at timepoints 0, 15, 30, 60, 120mins; mean (C) box and whisker plot of absolute glucose AUC during IPGTT (D) box and whisker plot of change in glucose AUC relative to baseline. Box denotes median, 25th and 75th percentiles, whiskers representing the maximum and minimum values.



Figure 16. *Individualized glucose values during IPGTT.* The following set of graphs denote individual blood glucose responses to an IPGTT in both inoculated groups plotted with the average blood glucose response of each inoculated group respectively. (A) Individual absolute glucose in males and females (B) Individual Δ glucose relative to baseline values in males and females.



Figure 17. *Representative Image of Immunohistochemical Stain for Capillaries.* IHC staining was performed on muscle cross sections of the TA and soleus. CD31 in TRITC, Laminin in Cy5.



Figure 18. *Representative Image of Sarcolemma Tracing for CFPE.* IHC staining was performed on muscle cross sections of the TA and soleus. CD31 in TRITC, Laminin in Cy5. Example of outlining muscle fibres through sarcolemma tracing in yellow.

APPENDIX II: RAW DATA AND STATISTICS

IPGTT RAW DATA:



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	t test		1	t test		
	1					
1	Table Analyzed	AUC Donors	1	Table Analyzed	AUC - subtract from baseline	e Donors
2			2			
3	Column B	Sedentary	3	Column B	Sedentary	
4	VS.	VS.	4	vs.	vs.	
5	Column A	Exercise	5	Column A	Exercise	
6			6			
7	Unpaired t test		7	Unpaired t test		
8	P value	0.0096	8	P value	0.0112	
9	P value summary	-	9	P value summary	•	
10	Significantly different? (P < 0.0	(5) Yes	10	Significantly different? (P < 0.05)	Yes	
11	One- or two-tailed P value?	Two-tailed	11	One- or two-tailed P value?	Two-tailed	
12	t, df	t=2.941 dt=16	13	τ, ατ	t=2.800 dt=10	
14	Here his is the difference?	-	14	How his is the difference?		
15	How big is the difference?	1020 + 140 0 N=0	15	Mean + SEM of column A	894 7 + 123 0 N=8	
16	Mean ± SEM of column A	2492 ± 182 2 N=10	16	Mean + SEM of column B	1217 + 129.8 N=10	
17	Difference between means	884 1 + 225 8	17	Difference between means	522.5 ± 182.3	
18	95% confidence interval	185.4 to 1143	18	95% confidence interval	135.9 to 909.0	
19	R square	0.3509	19	R square	0.3391	
20			20			
21	F test to compare variances		21	F test to compare variances		
22	F.DFn, Dfd	1.468, 9, 7	22	F,DFn, Dfd	1.393, 9, 7	
23	P value	0.6267	23	P value	0.6772	
24	P value summary	ns	24	P value summary	ns	
25	Significantly different? (P < 0.0	05) No	25	Significantly different? (P < 0.05)	No	
1	t test		1	t test		
4				1		
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	Table Analyzed	ALIC Inco - abs	4	Table damb and	1110	
2	Table Analyzed	AUC Inoc - abs	1	Table Analyzed	AUC Inoc - rel	
2	Table Analyzed	AUC Inoc - abs	1 2	Table Analyzed	AUC Inoc - rel	
2	Table Analyzed Column B	AUC Inoc - abs Sedentary-Inoculated	1 2 3	Table Analyzed Column B	AUC Inoc - rel Sedentary-Inoculated	
1 2 3 4	Table Analyzed Column B vs.	AUC Inoc - abs Sedentary-Inoculated vs.	1 2 3 4	Table Analyzed Column B vs.	AUC Inoc - rel Sedentary-Inoculated vs.	
1 2 3 4 5	Table Analyzed Column B vs. Column A	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated	1 2 3 4 5	Table Analyzed Column B vs. Column A	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated	
1 2 3 4 5 6	Table Analyzed Column B vs. Column A	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated	1 2 3 4 5 6	Table Analyzed Column B vs. Column A	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated	
1 2 3 4 5 6 7	Table Analyzed Column B vs. Column A Unpaired t test	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated	1 2 3 4 5 6 7	Table Analyzed Column B vs. Column A Unpaired t test	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated	
1 2 3 4 5 6 7 8	Table Analyzed Column B vs. Column A Unpaired t test P value	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238	1 2 3 4 5 6 7 8	Table Analyzed Column B vs. Column A Unpaired t test P value	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478	
1 2 3 4 5 6 7 8 9	Table Analyzed Column B vs. Column A Unpaired t test P value P value	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 •	1 2 3 4 5 6 7 8 9	Table Analyzed Column B vs. Column A Unpaired t test P value P value	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478	
1 2 3 4 5 6 7 8 9 10	Table Analyzed Column B vs. Column A Unpaired t test P value P value Significantly different? (P < 0.05)	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes	1 2 3 4 5 6 7 8 9	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.0	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns	
1 2 3 4 5 6 7 8 9 10	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One, or two tailed P value?	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two trailed	1 2 3 4 5 6 7 8 9 10	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.0	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns No Tue triled	
1 2 3 4 5 6 7 8 9 10 11	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value?	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed	1 2 3 4 5 6 7 8 9 10 11	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value?	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns No Two-tailed	
1 2 3 4 5 6 7 8 9 10 11 11 12	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.683 df=10	1 2 3 4 5 6 7 8 9 10 11 11 12	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns No Two-tailed t=1.509 df=10	
1 2 3 4 5 6 7 8 9 10 11 11 12 13	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.683 df=10	1 2 3 4 5 6 7 8 9 10 11 11 12 13	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns b) No Two-tailed t=1.509 df=10	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference?	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.683 df=10	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference?	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 5) No Two-tailed t=1.509 df=10	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.683 df=10 2005 ± 110.6 N=7	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15	Table Analyzed Column B Vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns No Two-tailed t=1.509 df=10 791.3 ± 138.0 N=7	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.663 df=10 2005 ± 110.6 N=7 2401 ± 81.48 N=5	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 5) No Two-tailed t=1.569 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.683 df=10 2005 ± 110.6 N=7 2401 ± 81.48 N=5 396.4 ± 148.8	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 5) No Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.663 df=10 2005 ± 110.6 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 84.75 to 728 0	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 5) No Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval B conurse	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.663 df=10 2005 ± 110.6 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 64.75 to 728.0 0.4149	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R souare	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 0.1478 ns 5) No Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.663 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 64.75 to 728.0 0.4149	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 0.1478 ns 100 Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Yes Two-tailed t=2.663 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 64.75 to 728.0 0.4149	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns No Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Ves Two-tailed t=2.683 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 84.75 to 728.0 0.4149	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F DEC D(4)	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns No Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * 0.0238 * Yes Two-tailed t=2.683 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 84.75 to 728.0 0.4149 2.577, 6, 4	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 21 22	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn. Dfd	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 0.1478 ns 100 Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Ves Two-tailed t=2.663 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 64.75 to 728.0 0.4149 2.577, 6, 4 0.3788	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 0.1478 ns 100 Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975 2.688, 6, 4 0.3577	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value P value summary	AUC Inoc - abs Sedentary-Inoculated vs. Exercise-Inoculated 0.0238 * Ves Two-tailed t=2.683 df=10 2005 ± 110.8 N=7 2401 ± 81.48 N=5 396.4 ± 148.8 84.75 to 728.0 0.4149 0.4149 2.577, 6, 4 0.3788 ns	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value P value summary	AUC Inoc - rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1478 ns 0.1478 ns 0.1478 ns Two-tailed t=1.589 df=10 791.3 ± 138.0 N=7 1081 ± 99.56 N=5 290.1 ± 184.9 -122.0 to 702.2 0.1975 2.688, 6, 4 0.3577 ns	

IPGTT: AUC T-TESTS

	2	A	B	l C	l D	E			A	B	C	D	E	F	G	н
	Tabular results	Data Set-A	Data Set-B	Data Set-C	Data Set-D	Data Set-E		Multiple comparisons	Data Set-A	Data Set-8	Data Set-C	Data Set-D	Data Set-E	Data Set-F	Data Set-G	Data Set-H
1		Y	Y	Y	Y	Y	- 4		Y	Y	Y	Y	Y	Y	Y	Y
1	Table Applyand	Deper also					2	Compare each deil mean with the other deil mean in that row					<u> </u>			
2	Table Analyzes						3	Number of families	1							
-	T	Matching: Observed					4	Number of comparisons per family	5							
-	Two-way RM ANOVA	Matching: Stacked					5	Alpha	0.05			<u> </u>				
•	Alpha	0.05					7	Sidak's multiple comparisons test	Mean Diff.	95% CI of diff.	Significant?	Summary				
-							8									
6	Source of Variation	% of total variation	P value	P value summary	Significant?		9	Exercise-Inoculated - Sedentary-Inoculated								
7	Interaction	1.427	0.1663	ns	No		10	Row 1	-1.074	-6.479 to 4.330	No	ns -		<u> </u>		
8	Time	64.55	< 0.0001		Yes		12	Row 3	-8.283	-11.69 to -0.8787	Yes					
9	Subject	7.611	0.0031		Yes		13	Row 4	-8.383	-11.79 to -0.9779	Yes	•				
10	Subjects (matching)	10.93	0.0006		Yes		14	Row 5	-3.805	-9.210 to 1.600	No	ns				
11							15					<u> </u>		<u> </u>		
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	17	Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	N1	N2	t	DF
13	Interaction	95.58	4	23.90	F (4, 68) = 1.673	P = 0.1663	18									
14	Time	4325	4	1081	F (4, 68) = 75.71	P < 0.0001	19	Exercise-Inoculated - Sedentary-Inoculated								
15	Subject	509.9	1	509.9	F (1, 17) = 11.83	P = 0.0031	20	Row 1	9.558	10.63	-1.074	2.057	9	10	0.5223	85
16	Subjects (matching)	722.5	17	42.09	E(17, 89) = 3.017	P = 0.0008	22	Row 3	21.47	27.75	-8.283	2.057	9	10	3.055	85
47	Desidual	074.4		40.00	r (11,00) = 3.011	1 - 0.0000	23	Row 4	14.71	21.10	-0.383	2.057	9	10	3.103	85
	Residual	9/1.1	08	14.28			24	Row 5	9.375	13.18	-3.805	2.057	9	10	1.850	85
¥n.	2way ANOVA	A	В	С	D	E	¥n.	2way ANOVA	A	8	с	D	E	F	G	н
	Tabular results	Data Set-A	Data Set-B	Data Set-C	Data Set-D	Data Set-E		Multiple comparisons	Data Set-A	Data Set-B	Data Set-C	Data Set-D	Data Set-E	Data Set-F	Data Set-G	Data Set-H
1		Y	Y	Y	Y	Y	- 4			'					'	
1	Table Applyand	Deess col					2	Compare each dei mean with the other dei mean in that row.								
	Table Analyzed	Donoriei					3	Number of families	1							
2							4	Number of comparisons per family	5							
3	Two-way RM ANOVA	Matching: Stacked					5	Alpha	0.05							
4	Alpha	0.05					6									
5							7	Sidak's multiple comparisons test	Mean Diff.	95% CI of diff.	Significant?	Summary				
6	Causes of Variation	V of total contains	P. united	R under a comment	Cincificant?	\vdash	8									
0	Source of Variation	% of total variation	r' value	P value summary	significant?		9	Exercise-Inoculated - Sedentary-Inoculated								
1	Interaction	1.566	0.1495	ns	No		10	Row 1	0.0	-4.702 to 4.702	No	ns				
8	Time	71.19	< 0.0001		Yes		11	Row 2	-4.581	-9.283 to 0.1206	No	ns				
9	Subject	4.852	0.0018		Yes		13	Row 3 Pox 4	-0.209 .A.203	-9.911 to -0.3072	Tes Vas	•				
10	Cubicate (matabias)	8.080	0.0902		Ne		14	Row 5	-0.203	-7.318 to 2.085	No	05				
	Subjects (matching)	0.008	0.0903	ns	NO		15	item o								
11							16									
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	17	Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	N1	N2	t	DF
13	Interaction	94.81	4	23.70	F (4, 68) = 1,748	P = 0.1495	18									
14	Time	4210	4	1077	E (4, 80) = 70, 47	B < 0.0004	19	Exercise-Inoculated - Sedentary-Inoculated								
45	Time	4310	•	10//	F (4, 00) = 13.41	P X 0.0001	20	Row 1	0.0	0.0	0.0	1.789	9	10	0.0	85
13	Subject	293.8	1	293.8	F (1, 17) = 13.59	P = 0.0018	21	Row 2	14.39	18.97	-4.581	1.789	9	10	2.580	85
16	Subjects (matching)	387.4	17	21.61	F (17, 68) = 1.594	P = 0.0903	22	Row 3	11.91	17.12	-5.209	1.789	9	10	2.911	85
							22	D4	r 200	10.17	C 000	4 786		40	0.007	
17	Residual	921.9	68	13.56			23	Row 4	5.263	10.47	-5.203	1.789	9	10	2.907	85
17	Residual	921.9	68	13.56	D		23 24	Row 4 Row 5	5.283 -0.08887	10.47 2.550	-5.203	1.789	9	10	2.907	85
17	Residual 2way ANOVA	921.9 A	68 B	13.58 C	D	E	23 24	Row 4 Row 5 2way ANOVA Multicle comparisons	5.263 -0.06667 A	10.47 2.550 B	-5.203 -2.817 C	1.789 1.789 D	9 9 E	10 10 F	2.907 1.462 G	85 85 H
17	Residual 2way ANOVA Tabular results	921.9 A Data Set-A	68 B Data Set-B	13.50 C Data Set-C	D Data Set-D	E Data Set-E	23 24	Row 4 Row 5 2way ANOVA Multiple comparisons	5.263 -0.06667 Data Set-A Y	10.47 2.550 B Data Set-8 Y	-5.203 -2.617 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.482 Data Set-G Y	85 85 Data Set-H Y
17	Residual 2way ANOVA Tabular results	921.9 A Data Set-A Y	68 B Data Set-B Y	13.58 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24	Row 4 Row 5 2way ANDVA Multiple comparisons Compare each cell mean with the other cell mean in that row	5.263 -0.06667 Data Set-A Y	10.47 2.550 Data Set-B Y	-5.203 -2.617 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.462 Data Set-G Y	85 85 Data Set-H Y
17	Residual 2way ANOVA Tabular results Table Analyzed	921.9 A Data Set-A Y Inco rel	68 Data Set-B Y	13.58 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24 1 2	Row 4 Row 5 Zweay ANDVA Multiple comparisons Compare each cell mean with the other cell mean in that row	5.283 -0.06667 Data Set-A Y	10.47 2.550 Data Set-B Y	-5.203 -2.817 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F ¥	2.907 1.462 Data Set-G Y	85 B5 Data Set-H Y
17 	Residual 2way ANOVA Tabular results Table Analyzed	921.9 A Data Set-A Y Inco rel	68 Data Set-B Y	13.56 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24 1 2 3	Row 4 Row 5 Zway ANDVA Multiple comparisons Compare each cell mean with the other cell mean in that row Number of families	5.283 -0.08667 Data Set-A Y	10.47 2.550 Data Set-B Y	-5.203 -2.817 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.462 Data Set-G Y	85 85 Data Set-H ¥
17 11 1 2 3	Residual 2way ANOVA Tabular results Table Analyzed Two-way RM ANOVA	921.9 A Data Set-A Y Inco rel Matching: Stacked	68 Data Set-B Y	13.56 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24 1 2 3 4 5	Rov 4 Rov 5 Rov 4 Rov 5 Rovey ANCIVA Multiple comparisons Compare each cell mean in that rov Number of tamiles Number of comparisons per family Multiple	5.263 -0.08667 Data Set-A Y 1 5 0.05	10.47 2.550 Data Set-8 Y	-5.203 -2.817 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.462 Data Set-G Y	B5 B5 Data Set-H Y
17 1 1 2 3 4	Residual 2way ANOVA Tabular results Table Analyzed Two-way RM ANOVA Aloba	921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05	68 Data Set-B Y	13.50 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24 1 2 3 4 5 6	Rev 4 Rev 5 2000 2 Multiple compations Compare each off marks with the other cell mean in that rev Number of mamilies Number of mamilies Number of comparisons per family Apte	5.263 -0.08667 Data Set-A Y 1 5 0.05	10.47 2.550 Data Set-8 Y	-5.203 -2.817 Data Set-C Y	1.789 1.789 Data Set-D Y	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.462 G Data Set-G Y	85 85 Data Set-H Y
17 1 1 2 3 4 5	Residual 2way ANOVA Tabular results Table Analyzed Two-way RM ANOVA Alpha	921.9 Data Set-A Y Inco rel Matohing: Stacked 0.05	68 Data Set-B Y	13.58 C Data Set-C Y	Data Set-D Y	E Data Set-E Y	23 24 1 2 3 4 5 6 7	Rov 4 Rov 5 Rov 5 Rov 5 Rovey ANTIVA Multiple comparisons Compare each cell mean in that nor Number of families Womber of comparisons per family Rove 6 Rove 6 Rove 7 Rove 7 Rove 8 Rove	5.283 -0.08607 A Data Set-A Y 1 5 0.05 Mean Diff.	10.47 2.550 Data Set-8 Y 95% Cl of diff.	-5.203 -2.617 Data Set-C Y Significant?	1.789 1.789 Data Set-D Y Summary	9 9 Data Set-E Y	10 10 Data Set-F Y	2.907 1.482 G Data Set-G Y 	B5 85 Data Set-H ¥
17 1 1 2 3 4 5	Residual 2way ANOVA Tabular results Table Analyzad Tuo-way RM ANOVA Alpha	921.9 A Data Set-A Y Inoc rel Matching: Stacked 0.05	68 Data Set-B Y	13.58 C Data Set-C Y	D Data Set-D Y	E Data Set-E Y	23 24 1 2 3 4 5 6 7 8	Rev 4 Rev 3 2009 2 Multiple comparisons Compare such man with the other cell mean in that rev Number of mainlies Number of mainlies Number of mainlies Statu's multiple comparisons test	5.283 -0.06667 A Data Set-A Y 1 5 0.05 Mean Diff.	10.47 2.550 Data Set-B Y 95% Cl of diff.	-5.203 -2.617 C Data Set-C Y Significant?	1.789 1.789 Data Set-D Y Summary	9 9 9 2 ata Set-E Y	10 10 Data Set-F Y	2.907 1.462 Data Set-G Y	65 65 Data Set-H Y
17 1 2 3 4 5 6	Residual 2way ANOVA Tabular results Table Analyzed Two-way RM ANOVA Alpha Source of Variation	921.9 A Data Set-A Y Inoc rel Matohing: Stacked 0.05 % of total variation	68 Data Set-B Y P value	13.56 C Data Set-C Y P value summary	D Data Set-D Y Significant?	E Data Set-E Y	23 24 1 2 3 4 5 6 7 8 9 9	Rov 4 Rov 5 2wey ANCIVA Multiple comparisons Congrame each off mars with the other cell mean in that row Number of comparisons per family Aptra Status multiple comparisons test Exercise-Innoulated - Sedentiary-Innoulated	5.263 -0.06667 A Data Set-A Y 1 5 0.05 Mean Diff.	10.47 2.550 Data Set-B Y 95% CI of diff.	-5.203 -2.817 C Data Set-C Y Significant?	1.789 1.789 Data Set-D Y Summary	9 9 Data Set-E Y	10 10 F Data Set-F Y	2.907 1.462 G Data Set-G ¥	85 85 Data Set-H Y
17 1 2 3 4 5 6 7	Residual 2way ANOVA Tabular results Table Analyzed Turo-way RM ANOVA Alpha Source of Variation Interaction	921.9 A Data Set-A Y Matching: Stacked 0.05 % of total variation 2.153	68 Data Set-B Y P value 0.0311	13.56 C Data Set-C Y P value summary •	Data Set-D Y Significant? Yes	E Data Set-E Y	23 24 1 2 3 4 5 6 6 7 7 8 9 10 11	Rov 4 Rov 5 Rov 5 Rov 5 Rov 5 Rovey ANTIVA Multiple comparisons Compare each cell mean in that rov Number of families Runder of comparisons per family Runder of comparisons per family Exercise Rove 1 Exerci	5.263 -0.05667 A Data Set-A Y 1 5 0.05 Mean Diff. 0.0 0.0	10.47 2.550 B Data Set-8 Ý 95% Cl of diff. -4.559 to 4.559 -4.559 to 4.559	-5.203 -2.817 C Data Set-C Y Significant? No No	1.789 1.789 Data Set-D Y Summary ns	9 9 Data Set-E Y	10 10 F Data Sat-F Y	2.907 1.462 G Data Set-G Y	85 85 Data Set-H Y
17 1 2 3 4 5 6 7 8	Residual 2wap ANOVA Tabular results Tabular r	821.9 A Data Set-A Y Matching: Stacked 0.05 % of total variation 2.153 78.33	68 Data Set-B Y P value 0.0311 < 0.0001	13.56 C Data Set-C Y P value summary •	D Data Set-D Y Significant? Yes Yes	E Data Set-E Y	23 24 1 2 3 4 5 6 6 7 7 8 9 10 11 11 12	Rev 4 Rev 5 2000 State Multiple compations Congare acts of mean with the other of times in that row Number of marines Number of marines Number of marines Statis multiple comparisons per temby Apira Edds's multiple comparisons test Everose-hookited - Sedertary-shookited Rev 1 Rev 1 Rev 2 Rev 3	5.263 -0.05667 A Data Set-A Y 1 5 0.05 Mean Diff. 0.0 0.0 3.875 6.287	10.47 2.550 Data Set-8 Y 90% Cl of diff. 4.509 to 4.509 4.234 to 0.8844 10.8210 - 1.6884	-5.203 -2.817 Data Set-C Y Significant? No No Yee	1.789 1.789 Data Set-D Y Summary ns ns	9 9 Data Set-E Y	10 10 F Data Sat-F Y	2.907 1.462 G Data Set-G Y	85 H Data Set-H Y
17 1 2 3 4 5 6 7 8 9	Residual 2way ANOVA Tabular results Tabular results Tabe Analyzed Two-way RM ANOVA Alpha Source of Variation Interaction Time Soulpect	821.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 Y % of total variation 2.153 78.33 2.246	88 Data Set-8 Y P value 0.0311 < 0.0001 0.0303	13.56 C Data Set-C Y P value summary •	D Data Set-D Y Significant? Yes Yes Yes	E Data Set-E Y	23 24 1 2 3 4 5 6 7 7 8 9 10 11 11 12 13	Rev 4 Rev 5 2wey ANCIVA Multiple comparisons Compare each of mass with the other cell mean in that rev humber of comparisons year family Apina Stakis multiple comparisons year family Apina Stakis multiple comparisons test Exercise-Incounted - Sedentary-Incounted Rev 1 Rev 1 Rev 2 Rev 3 Rev 4	5.283 -0.00667 A Data Set-A Y 1 5 0.05 Mean Diff. 0.0 0.0 -3.675 -0.257 -2.574	0.47 2.550 Buts Set# Y 95% Cl of def. 4.559 to 4.559 4.234 to 0.844 10.826 to 1.559	-5.203 -2.817 C Data Set-C Y Significant? No No Yes No	1.789 1.789 Data Set-D Y Summary ns ns ns	9 9 Data Set-E Y	10 10 F Data Set-F Y	2.907 1.452 G Data Set-G Y	85 H Data Set-H Y
17 1 2 3 4 5 6 7 8 9 10	Residual	821.9 A Data SetA Y Incorrel Matching: Stacked 0.05	88 Data Set-S Y P value 0.0311 0.0303 0.0097	13.58 C Data Set-C Y P value summary • • •	Data Set-D Y Significant? Yes Yes Yes Yes	E Data Set-E Y	23 24 1 2 3 3 4 5 6 6 7 7 8 9 9 10 11 11 12 13 14	Rov 4 Rov 5 Rov 5 Rov 5 Rov 5 Rov 5 Rov 6 Rov 7	5.283 -0.00667 A Data Set-A Y 1 5 0.05 0.05 0.0 0.0 0.0 0.0 0.0 0.0 -3.675 6.257 -2.574 -0.2857	0.47 2.550 B Data Set-B Y 95% Cl of def. 4.559 to 4.559 4.234 to 0.8844 10.82 to 1.688 -7.134 to 1.689 -7.134 to 1.995	-5.203 -2.617 C Data Set-C Y Significant? No No No No No No	1.789 1.789 Data Set-D Y Summary Summary ns ns ns ns ns	9 9 Data Set-E Y	10 10 F Data Set-F Y	2.907 1.462 G Data Set-G Y	85 H Data Set-H Y
17 1 2 3 4 5 6 7 8 9 10	Residual	921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 0.05 0.05 0.05 2.153 2.640 8.376	88 Data Set-B Y P value 0.0311 < 0.0001 0.0303 0.0097	13.56 C Data Set-C Y P value summary • • •	D Data Sel-D Y Significant? Yes Yes Yes Yes	E Data Set-E Y	23 24 1 2 3 4 5 6 6 7 7 8 9 10 11 11 12 13 14 15	Rov 4 Rov 5 2wey ANDVA Multiple compations Congress each off mars with the other off mean in the inve Number of namilies Number of namilies Number of namilies Statu's multiple comparisons ser family Apirs Estati's multiple comparisons test Exercise-toolated - Sedentary-incoulted Row 1 Row 2 Row 5	5.283 -0.06607 A Data Set-A Y 1 5 0.05 Mean Diff. 0.0 0.0 -3.675 -6.257 -0.2857 -0.2857	10.47 2.550 B Data Set-B Y 55% Cl of diff. 4.559 to 4.559 4.529 to 1.0844 -10.82 to -1.086 -7.134 to 1.885 4.845 to 4.274	-5.203 -2.617 C Data Set-C Y Significant? No No No No No No	1.789 1.789 Data Set-D Y Summany Summany ns ns ns ns	9 9 Data Ser-E Y	10 10 10 Data Set-F Y	2.907 1.462 0 table 0	85 H Data Set:H Y U U U U U U U U U U U U U
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17 17 1 2 3 4 5 6 7 8 9 10 11 12 12 12 12 12 12 12 12 12	Residual 2wap ANOVA Tabular results Tabular results Tabular results Tabular results Tabular results Tabular setures Tabular setures Tabular setures Tabular setures Tabular setures Time Subject Subjects (matching) ANOVA table	S21.9 A Data SetA Y Inoc rel Matching: Stacked 0.05 0.05 % of total variation 2.153 2.153 2.264 0.376 SS SS 55.0	88 Data Set-8 Y P value 0.0311 < 0.0001 0.0303 0.0097 DF	13.66 C Data Set-C Y P value summary • • • •	D Data Sel-D Y Significant? Yes Yes Yes F (DFn, DFd)	E Data Set-E Y P value	23 24 1 1 2 3 3 4 5 5 6 7 7 8 9 10 11 11 12 13 14 15 16 17 18	Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 5 Rev 4 Rev 5 Rev 6	5.283 -0.06607 Data Set-A Y 1 5 0.05 Mean Diff. 0.0 3.675 -0.257 -0.2574 -0.2867	10.47 2.550 B Data Ser-B Y 95% C1 of diff. 4.558 to 4.559 4.234 to 0.884 4.945 to 4.559 4.845 to 4.274 Mean 2	-5.203 -2.617 C Data Set-C Y Significant? No No No No No No Mean Diff.	1.789 1.789 Data Set-D Y Summary ns ns ns sE of diff.	9 9 Data Set-E Y	10 10 P Data Set-F Y N2 N2	2.907 1.462 0 1.462 0 1.462 0 1.462 0 1.462 0 1 1.462 0 1 1.462 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	85 H Data Set-H Y D
17 17 1 2 3 4 5 6 7 8 9 10 11 12 13 13 13 14 15 10 10 11 12 13 10 10 10 10 10 10 10 10 10 10	Residual	921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 % of total variation 2.153 2.640 6.370 SS 108.6	88 Data Set-B Y 0.0311 0.0303 0.0097 DF 4	13.56 C Data Set-C Y P value summary • • • • • • • •	D Data Set-D Y Significant? Yes Yes Yes F (DFn, DFd) F (4, 68) = 2.872	E Data Set-E Y P value P value P = 0.0311	23 24 1 2 3 4 5 6 6 7 7 8 9 10 11 11 12 13 13 14 15 16 17 18 19	Rov 4 Rov 5 2000 Statute Multiple comparisons Compare act of mans with the other cell mean in that rev Number of comparisons are family Number of comparisons test Statis multiple comparisons test Exercise-incoluted - Sedentary-Incolated Rov 3 Rov 4 Rov 5 Test details Exercise-incoluted - Sedentary-Incolated	5.283 -0.06607 Data Set-A 9 0.05 0.05 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10.47 2.550 B Data Sei-B Y 95% C1 et deff. 4.559 to 4.559 4.224 to 0.0844 -10.82 to -1.686 7.134 to 1.985 4.264 to 4.274 Maan 2	-5.203 -2.817 C Data Set-C Y Significant? No No No No No No Mean Diff.	1.789 1.789 Data Set-D Y Summary ssummary ss ss ss ss ss ss ss ss ss s	9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 F Data Set-F Y N2 N2	2.507 1.402 G G Data Set-G Y	85 H Data Set-H Y D D D D D F
17 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Residual	\$21.9 A Data Set Y Incorrel Matching: Stacked 0.05 % of total variation 2.153 78.33 2.840 6.370 SS 108.6 3876	88 Data Set-8 Y Value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4	13.66 C Data Set-C Y P value summary • • • • • • • • • • • • •	D Data Set-D Y Significant? Yes Yes F (F, 0, DFd) F (F, 60) = 2.872 F (4, 50) = 104.5	E Data Set-E Y P value P = 0.0311 P < 0.0001	23 24 1 2 3 4 5 6 6 7 7 8 9 9 10 11 11 12 13 13 14 15 16 17 18 19 20	Rev 4 Rev 5	5.283 -2.08087 Data Set A Y Data Set A Y 1 5 0.05 Mean Diff. 0.0 -3.875 -2.574 -0.2857 Mean 1	10.47 2.500 B Data Set-B Y 55% Cl et det. 4.509 to 4.509 4.224 to 0.844 4.509 to 4.509 4.224 to 0.844 4.509 to 4.509 4.224 to 0.844 Maan 2 0.0	-5.203 -2.817 C Data Set-C Y Significant? No No No No No Mean Diff.	1.789 1.789 Data Set-D Y Summary ns ns ns sE of diff. 1.727	9 9 2 0ata Set-E Y 	10 10 10 F Data Set-F Y N2 N2 8	2.507 1.402 G Data Set-G Y	85 H Data Set-H Y Data Set-H DE DE DF 70
17 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Residual	921.9 A Data Set-A Y Inoc rel Matching: Stacked 0.05 Soft total variation 2.163 2.263 2.264 6.376 SS SS 108.6 3876 130.9	88 Data Set-S Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4 1	13.66 C Data Set-C Y P value summary · · · · · · · · · · · · · · ·	D Data Sel-D Y Significant? Yes Yes Yes F (DFn, DFd) F (4.56) = 2.872 F (4.56) = 104.5 F (1.14) = 5.009	E Data Set-E Y P P value P = 0.0311 P < 0.0001 P = 0.0303	23 24 1 2 3 3 4 5 5 6 7 7 8 9 10 11 11 22 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Rev 4 Rev 3 Rev 4 Rev 5 Rev 5 Rev 5 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7	5.283 -2.08867 Data Set A Unta Set A 1 5 5 0.05 Mean Diff. 0.0 3.875 -0.2577 -0.25777 -0.2577 -0.25777 -0.25777 -0.25777 -0.2	10.47 2.80 B Data Set-B Y 95% C1 of diff. 95% C1 of diff. 4.559 to 4.559 4.259 to 4.559 4.259 to 4.559 4.254 to 1.885 4.244 to 1.845 4.244 to 1.8454.244 to 1.845 4.244 to 1.8454.245 4.245 to 1.8454.245 4.	-5.203 -2.817 C Data Set-C Y Significant? No No No No No Mean Diff. 0.0 -3.875	1.795 Data Set-D Data Set-D Summary Summary Ssent set ss ss ss ss ss ss ss ss ss ss ss ss ss	9 9 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	10 10 F Data Set-F Y N2 N2 8 8	2.507 1.462 G Data Set-G Y	85 H Data Set-H Y Data Set-H DE DF 70 70
17 17 2 3 4 5 6 7 8 9 10 111 12 13 14 15 16	Residual Page ANOVA Tabular results Tabular results Tabu Analyzed Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject Subjects (matching) ANOVA table Interaction Time Subject Su	921 9 A Data Set-A V Inco rel Matching: Stacked 0.05 % of total variation 2.163 2.640 6.370 SS 106.6 3876 130.9 315.5	88 Data Set-S Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4 1 1	13.56 C Data Set-C Y P value summary • • • • • • • • • • • • •	D Data Set-D Y Significant? Yes Yes Yes F (D.Fn, D.Fd) F (4, 68) = 2.872 F (4, 56) = 104.5 F (1, 14) = 5.808 F (14, 56) = 2.429	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0331	23 24 1 2 3 3 4 5 5 6 7 7 8 9 10 11 11 22 13 14 15 16 17 18 19 20 21 22 22	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5 283 4 305057 A Data SetA.4 T 1 5 5 0.05 4 257 4 257 4 257 4 257 4 257 4 257 4 257 4 257 4 257 4 257 4 257 5 5 5 5 5 5 5 5 5 5 5 5 5	10.47 2.80 B Data Set-B Y 95% CI of def. 4.509 to 4.559 4.234 to 0.844 1.032 to -1.630 4.965 to 4.274 Maan 2 Maan 2	-5.203 -2.617 C Data Set-C Y Significant? No No No No No No No No No No No No No	1.739 Data Set-D Data Set-D Summary Summary 1.727 1.727 1.727	9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 10 F Cata Set F Y N N N N S S S S S S	2.907 1.462 G Data Set-G Y L L L L L L L L L L L L L	85 H Data SatH Y Data SatH Data SatH D
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17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 7	Residual	921.9 A Data Set-A Y Incorel Matching: Stacked 0.05 % of total variation 2.163 2.646 6.376 130.9 58 100.6 5876 130.9 316.5 519.5 A	88 Data Set-8 Y P value 0.0311 0.0303 0.0097 DF 4 4 1 1 1 50 P	13.86 C Data Set-C Y P value summary P value summary ***** ***** ***** ***** ***** ***** ***** ******	D Data Sel-D Y Significant? Yes Yes Yes F (D.Fn, DFd) F (4, 56) = 2.872 F (4, 56) = 104.5 F (1.14) = 5.809 F (14, 56) = 2.429	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0337 P = 0.0037	23 24 1 2 2 3 4 5 5 6 7 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Rov 4 Rov 5 20xxyy ANCIVA Multiple compations Congress each off mars with the other off mains in the row Number of mainties Number of mainties Number of mainties Number of comparisons per family Apirs Batrix multiple comparisons test Exercise-booklast - Sedentary-Incolated Row 1 Row 2 Row 3 Test clearlis Row 2 Row 3 Row 4 Row 2 Row 3 Row 4 Row 2 Row 3 Row 4 Row 4 Row 5	5 283 4 305657 A Data Set4.A Data Set4.A Data Set4.A 5 5 0 05 	10.47 2.80 0 0 0 0 0 0 0 0 0 0 0 0 0	4.203 2,2817 C Data Sec-C 2,2817 Y Significant? Significant? No Significant C 2,214 C 2,254 C C C C C C C C C C C C C C C C C C C	1.735 Data Sat-D Data Sat-D Summary F Summary Summary Summary F Summary Su	9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 F Cata Ser F V V N2 N2 S S S S S S F F	2.807 1.482 G Data Sei-G Y Y Cata Sei-G Y Cata Sei-G Sei-S Sei	85 85 М Data SetH Y V Data SetH V V V V V V V V V V V V V V V V V V V
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 17 17	Residual Parage ANOVA Tabular results Tabular results Tabular results Tabular results Tabular setures Tabular setures Time Subject Subject Subject Subject Subject Subject Subject Residual Parage ANOVA Tabular Tabular results Tabular r	921.9 A Data Set V or rel Matching: Stacked 0.05 V of total variation 2.153 70.33 2.640 0.370 SS 0	B Duta Set-B Y Value 0.0311 <0.0001 0.0097 DF 4 4 1 1 5 B B B Data Set-B Compage Set P Compage Se	13.88 C Data Set-C Y P value summary - - - - - - - - - - - - -	D Data Set-D Y Significant? Yes F (DFn, DFd) F (4, 50) = 2.872 F (4, 50) = 104.5 F (11.4) = 5.809 F (14, 50) = 2.429 D Data Set C	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0303 P = 0.0303 P = 0.0303 P = 0.0303	23 24 1 1 2 3 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 13 14 15 16 17 17 20 21 22 23 24	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rever Anticipal comparison Rever 6 Reve 7 Reve 8 Reve 1 Rev	5.283 4.000607 A Data San A T 1 5 0.00 0.00 1 5 0.00 0.0 0.0 0.0 0.0 0.0 0.0	10.47 2.80 B Data Set 8 V 95% Cl of def. 95% Cl of def. 4.508 to 4.559 4.234 to 0.844 4.538 to 4.559 4.234 to 0.844 4.548 to 4.274 Maan 2 0.0 18.80 18.30 19.30	4.203 2.2017 C Data Set-C P Septificant? Septificant? No No No No No 0 0 0 0 0 0 0 0 0 0 0 0	1.785 Data Ser-D Data Ser-D Summary Summary ss ss ss ss ss ss ss ss ss s	9 9 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 10 F Cata Sur-F Y N N N N N S S S S S S Cata Sur-F T N S S S S S S S S S S S S S	2.807 1.482 G Data Ser-0 Y Y Cata Ser-0 Ser-0	85 85 T Data Set-H V V Data Set-H V V V V V V V V V V V V V
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17 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 10 11 12 13 14 15 16 17 10 10 10 10 10 10 10 10 10 10	Residual	921.9 A Data Set-A Y Inco rel Matching: Stacked O.05 No of total variation 2.546 0.37 SS 100.6 SS 100.6 337 100.9 315.5 519.5 Cata Set-A Y Inco aba	88 Data Set-8 Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 1 1 1 1 56 Y V 1 1 1 1 56 V V V V V V V V V V V V V	13.86 C Data Set-C Y P value summary P value summary P value summary MS 28.64 968.5 968.5 968.5 968.5 968.5 22.54 9.227 C Data Set-C Y	D Data Sel-D Y Significant? Yes Yes Yes F (D.Fn, D.Fd) F (4, 56) = 2.872 F (4, 56) = 1.04.5 F (1, 14) = 6.809 F (14, 58) = 2.429 Data Sel-D Y	E Data Set-E Y P value P value P = 0.0311 P < 0.0001 P < 0.0001 P = 0.0303 P = 0.0097 E Data Set-E Y	23 24 1 1 2 3 4 4 5 6 7 7 8 9 10 11 11 12 2 3 14 15 16 19 20 21 17 18 19 20 21 17 7 7 8 9 9 10 11 1 2 2 3 3 14 1 1 2 3 3 14 1 1 2 3 3 14 1 1 1 2 3 3 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rever 4 Rev 5 Rever 4 Rev 5 Rev 4 Rev 5 Rev 5 Rev 4 Rev 5 Rev 6 Rev 5 Rev 6 Rev 7 Re	5.283 4.200867 X Data StevA 1 5 0.05	10.47 2.80 Data Set 8 95% Cl of dat. 95% Cl of dat. 4.509 to 4.509 4.245 to 0.844 -7.134 to 1.985 4.245 to 0.844 -7.134 to 1.985 4.245 to 0.844 -7.134 to 1.985 4.245 to 0.844 -7.134 to 1.985 -7.134 to 1.985 -7.13	4.203 C Data Ser-C P P P P P P P P P P P P P P P P P P P	1.785 0 0-ts 5+t-0 55 of diff. 1.727 1.72 1.72	9 9 7 7 9 7 9 7 7 9 7 7 9 7 9 7 9 9 9 9	10 10 F Cata Set-F V V V N2 N2 S S S S S S S S S S S S S	2.807 0 Cras Set-0 V V V V V V V V V V V V V	85 85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17 17 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 11 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Residual Participation Participati	921.9 A Data Set Matching: Stacked 0.05 Vert of total variation 2.153 78.33 2.848 3.76 3.3 2.848 3.878 100.8 3878 130.9 3878 100.0 387 100.0 387 100	B Data Set-B Y Value 0.0311 <0.0001 0.0097 DF 4 4 1 1 Data Set-B Y Value	13.88 C Data Set-C Y P value summary - - - - - - - - - - - - -	D Data Set-D Y Significant? Yes F (DFn, DFd) F (4, 66) = 2.872 F (4, 66) = 2.872 F (4, 65) = 104.5 F (1, 14) = 5.809 F (14, 56) = 2.429 Data Set-D Y	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0303 P = 0.0037 P = 0.0037 P = 0.0037	23 23 24 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 13 18 19 20 21 22 23 24 22 23 24 20 21 23 24 20 21 23 24 23 24	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5.283 4.200607 A Dota Ser-A- 5 5 0.00 A an Dirf. 5 5 0.00 0.00 0.00 0.00 0.00 0.00 0.0	10.47 280 B Crist Set-8 Y 95% Cl of def. 95% Cl of def. 4.559 to 4.559 4.224 to 0.0844 10.82 to 4.559 4.224 to 0.0844 1.08 to 4.274 Maan 2 0.0 18.00 19.00	4.303 C 2487 C Cata Set C 49 Septificant? Septificant? No C C C C	1.785 D Total Set-O Summary Fis Summary Fis Societ Set Set Set Set Set Set Set Set Set S	9 9 0 Cats Set-E 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 F Data Set-F V V N2 N2 S S S S S S S S S S S S S	2.807 G Cruta Serd- V V V V V V V V V V V V V	85 85 97 97 97 97 97 97 97 97 97 97 97 97 97
17 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 5 6 7 7 8 9 10 11 12 13 14 15 16 16 10 10 10 10 10 10 10 10 10 10	Residual Provide a constraint of the second	921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 % of total variation 2.163 78.33 2.248 0.378 2.248 0.378 108.6 3376 108.6 3376 130.9 315.5 519.5 A Data Set-A Data Set-	68 B Data Set-8 Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4 1 1 56 B Data Set-8 Y 0 0 0 0 0 0 0 0 0 0 0 0 0	13.66 C Data Set-C Y P value summary • • • • • • • • • • • • • • • • • • •	D Data Set-D Y Significant? Yes Yes Yes F (DFn, DFd) F (4, 50) = 2.872 F (4, 50) = 104.5 F (1, 14) = 5.809 F (14, 50) = 2.429 Data Set-D Y	E Data Set-E Y P value P value P 0.0311 P 0.0311 P 0.0301 P 0.0303 P 0.0307 E Data Set-E Y	23 24 24 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 4 5 7 7 8 9 9 10 11 11 12 13 14 15 16 17 19 20 21 22 23 24 24 10 10 11 12 13 14 14 15 15 16 16 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7	5.283 4.200607 X 1 5 5 0.06 0.0 0.0 0.0 0.0 0.0 0.0 0.	10.47 280 0 0 0 0 0 0 0 0 0 0 0 0 0	4.303 4.303 C Data Sec. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1.785 0 0 01rts Set-D 7 9 0 0rts Set-D 7 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 9 Crate Serie G 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 10 10 10 10 10 10 10 10	2.807 G Cata Set-0 Cata Set-	85 95 10 10 10 10 10 10 10 10 10 10
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17 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 1 2 3 4 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Residual Provide a constraint of the second	921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 % of total variation 2.153 78.33 2.840 0.05 387 30.9 385 50 50 519.5 A Data Set-A Data Set-A Inco abs Matching: Stacked 0.05	68 B Data Set-B Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4 1 1 14 56 P value P value 0.0313 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0303 0.0097 P value 0.0097 0.	13.88 C Data Set-C Y P value summary P value summary P value summary	D Data Set-D Y Significant? Yes F (DFn, DFd) F (4, 60) = 2.872 F (4, 60) = 0.425 F (1, 14) = 5.909 F (14, 50) = 2.429 D Data Set-D Y Significant? N=	E Data Set-E Y P value P value P 0.0311 P 0.0311 P 0.0301 P 0.0303 P 0.0097 E Data Set-E Y	23 24 24 1 1 2 3 4 5 6 7 7 8 9 9 10 11 12 13 4 4 5 6 7 7 8 9 10 11 11 12 13 14 15 15 16 17 17 20 21 22 23 24 24 23 24 24 20 20 24 20 24 20 20 24 20 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20	Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 5 Rev 5 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5.283 4.200607 A Data Serk-A 5 0.05	10.47 250 B Data Stell V Definition 00% Cl of deff. 4.505 to 4.505 4.234 to 5.0844 -1.026 to -1.805 4.265 to 4.505 4.265 to 4.505 4.265 to 4.505 4.265 to 4.505 4.265 to 4.505 4.265 to 4.505 4.265 to 4.505 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.200 C Data Ser-C Y Segor/Gaart? No No No No No No No No No No	1.785 0 0 01rts Set-0 4 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 9 7 7 9 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Cata Set F Y Y N2 N2 N2 Data Set F Data Set F Data Set F Y Cata Set F N2 S S S S S S S S S S S S S	2.807 Cata Sen-O	55 55 10 Jas Set / 10 Jas Set /
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 3 4 5 6 7 6 7	Residual	921.9 A Data Set-A Y Inco rel Matching: Stacked Astrong: Stacked Astrong: Stacked Astrong: Stacked Astrong: Stacked Astrong: Stacked Data Set-A Y Matching: Stacked Data Set-A N Thick abs Matching: Stacked Dist Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked Dist Stacked D	88 B Data Set-8 Y Value 0.0311 <0.0031 0.0097 DF 4 1 1 1 8 0 Data Set-8 Y Value 0.1492 0.1492 0.1492 0.1492	13.56 C Data Set-C Y P value summary P value summary *** *** MS MS 20.64 908.5 13.9 922.54 922.74 C Data Set-C Y P value summary P value summary ***	D Data Sel-D Y Significant? Yes Yes Yes F (D.Fn, D.Fd) F (4, 56) = 2.872 F (4, 56) = 104.5 F (1, 14) = 5.009 F (14, 56) = 2.429 D Data Sel-D Y Significant? No	E Data Set-E Y P value P value P = 0.0311 P = 0.0311 P = 0.0001 P = 0.0007 E Data Set-E Y	23 23 24 3 1 2 4 5 6 6 7 8 9 9 101 11 112 13 141 15 152 20 21 20 221 22 23 14 1 2 2 2 2 2 2 2 2 2 3 1 4 1 2 3 4 1 5 6 7 1 9 10 10 11	Rev 4 Rev 3 Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7	5.283 0.00007 7 0 Cars StevA 9 0.0007 1 1 5 0.00 0.00 0.00 0.00 0.00 0.00 0.0	19.47 280 Data Set 8 95% Cl of deff. 4.559 19.459 4.2410 0.0844 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.022 19.459 1.025	4.203 Conta Sec2 Conta	1.736 Data Seco Y Summary 68 68 68 58 of diff. 1.727 1.727 1.727 1.727 1.727 1.727 1.727 1.727 1.727 1.727 1.727 5 an Seco Summary Summary 68 68 68	9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 10 F Crata Set ² V V V V V V V V V V V V V	2.807 P P P P P P P P P P P P P P P P P P P	85 55 10 10 10 10 10 10 10 10 10 10 10 10 10
17 1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 16 17 17 18 19 10 10 10 10 10 10 10 10 10 10	Residual Parage ANOVA Tabular results Tabular results Tabular results Tabular results Tabu AnovA Alpha Source of Variation Interaction Time Subject Subject (matching) ANOVA table Interaction Time Subject Subject Residual Parage ANOVA Residual Tabu Analyzed Tabular results Tabu AnovA Alpha Source of Variation Interaction Time Source of Variation Interaction	921.9	B Duta Set-B Y Value 0.0311 <.0.0001 0.0097 DF 4 4 1 1 56 B V Value .0.097 Value .0.097 DF 4 4 1 1 4 0.001 0.003 0.0097 DF 0.0001 O.0097 Value O.01492 <.0.0001	13.88 C Data Set-C Y P value summary P value summary P value summary S C Data Set-C Y V P value summary P value summary nas	D Data Set-D Y Significant? Yes F(1, 50) = 2.872 F(4, 50) = 2.872 F(4, 50) = 104.5 F(1, 14) = 5.809 F(14, 50) = 2.429 D Data Set-D Y Significant? No No Yes No	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0303 P = 0.0007 E Data Set-E Y	23 24 24 1 2 3 4 4 5 6 6 7 7 8 9 9 10 11 11 22 7 8 9 9 10 11 11 12 20 20 21 13 14 15 16 16 17 7 18 19 20 21 22 22 22 24 22 24 24 10 20 10 10 11 11 12 20 20 21 10 10 10 10 10 10 10 10 10 10 10 10 10	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 5 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5.283 0.00007 A Data Bark Y A Data Sank Y A A A A A A A A A A A A A	19.47 280 Bar Sine Team Sine Sets Coll of def. 4.509 to 4.509 4.234 to 0.844 4.509 to 4.509 4.234 to 0.844 4.500 to 4.509 4.244 to 0.844 4.500 to 4.509 4.244 to 0.844 4.500 to 4.509 4.244 to 0.844 4.500 to 4.509 4.245 to 0.844 1.500 to 4.509 5.800 1.500 to 4.509 5.800	4.200 Catal Ser-C 2497 Y Significant? No No No No No No No No No No No No No	1.786 Data Sin-D. Y Sommary 68 68 68 68 68 68 68 68 68 68	9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 10 Tota Ser F Y Y N2 N2 N2 N2 N2 N2 N2 N2 N2 N2	2.807 Catal Ser-Go	85 55 10 10 10 10 10 10 10 10 10 10
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Residual	921.9 921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 % of total variation 2.163 78.33 2.048 0.05 370 30.9 375.5 519.5 519.5 100.6 376 130.9 315.5 519.5 A Data Set-A	68 B Data Set-8 Y P value 0.0311 < 0.0311 < 0.0311 < 0.0311 < 0.0311 < 0.0311 < 0.0311 C 0.031 DF 4 4 1 1 50 B P value 0.1452 < 0.0154 P value 0.1452 < 0.001 0.0733 - 0.0073 - 0.0075 - 0.0055 - 0.00555 - 0.00555 - 0.00555 -	13.88 C Data Set-C Y P value summary P value summary S S S S S S S S S S S S S S S S S S	D Data Set-D Y Significant? Yes Yes F(DFn, DFd) F (4, 50) = 2.872 F (4, 50) = 104.5 F (1, 14) = 5.809 F (14, 50) = 2.429 Data Set-D Y Significant? No Significant? No Yes	E Data Set-E Y P value P value P 0.0311 P 0.0301 P 0.0303 P 0.0097 E Data Set-E Y	23 24 24 2 3 3 4 5 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 11 12 13 14 20 21 15 16 17 20 21 22 22 24 24 10 11 12 13 14 1 10 11 12 13 14 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rev 5 Rev 4 Rev 5 Rev 6 Rev 6 Rev 6 Rev 6 Rev 7	5.283 0.06077 Y Y Y Y Name Duff. 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.47 280 Tota Bell Tota Bell Tota Bell Tota Bell Tota Bell Bells Ci of daff. 4.559 to 4.559 4.324 to 0.884 4.559 to 4.559 4.324 to 0.884 4.559 to 4.559 4.324 to 0.884 7.134 to 1.885 4.324 to 0.884 1.325 to 4.559 Bells Ci of daff. Tota Bells Tota Bells Tota Bells Bells Ci of daff. 4.555 to 4.427 4.355 to 4.225 1.131 to 0.525 1.131 to 0.555 1.131 to 0.555 1.131 to 0.555 1.131 to 0.555	4.202 2407 Class Ser-C V Seprificant? Seprificant? No No No No No No No No No No No No No	1.785 Charlen Control	9 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Catal Stor F Y - - - - - - - - - - - - -	2.287 Cata Ser-O Y Y V V V V V V V V V V V V V	65 55 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 10 11 12 3 4 5 6 7 8 9 100	Residual Pesidual Pesidual Tabukar results Tabukar results Tabukar results Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject (matching) ANOVA table Interaction Time Subject (matching) Residual Parabukar results Tabukar results Tabukar results Tabukar results Source of Variation Interaction Time Subject (matching) Residual Source of Variation Interaction Time Subject (matching)	921.9	88 B Data Set-8 Y P value 0.0311 < 0.0001 0.0303 0.0097 DF 4 4 1 1 1 1 56 B Data Set-8 Y P value 0.1452 < 0.0001 0.0073 0.0075 0.0075 0.0075 0.0075 0.0075 0.0075 0.0075 0.0075	13.86 C Data Set-C Y P value summary *** MS MS 20.64 968.9 13.9,9 22.54 9,277 C Data Set-C Y P value summary ns *** ** *** *** *** *** *** *** *** *	D Data Sel-D Y Significant? Yes Yes Yes F (D.Fn, D.Fd) F (4, 50) = 2.872 F (4, 50) = 104.5 F (1, 43) = 5.009 F (14, 50) = 2.429 D Data Sel-D Y Significant? No Yes No No	E Data Set-E Y P value P value P = 0.0311 P < 0.0001 P = 0.0331 P = 0.0007 E Data Set-E Y	23 24 24 2 3 3 4 4 5 6 6 7 7 8 9 9 10 11 12 13 14 14 15 20 21 12 22 23 24 22 23 24 24 22 23 24 24 15 5 6 6 7 7 8 9 9 9 9 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 5 Rev 6 Rev 6 Rev 6 Rev 6 Rev 7	5.283 0.00007	19.47 280 Part Set 8 95% Cl of 647. 4.599 19.4.599 4.294 19.0.844 4.599 19.4.599 4.294 19.0.844 1.291 19.4.599 1.292 19.4.591 Maan 2 Maan 2 Maan 2 Maan 2 Maan 2 0.0 1.371 0.0 Data Set 8 9 0.0 1.327 0.0 1.327 0.0 1.327 0.0 1.327 0.0 1.327 0.0 1.329 1.327 0.0 1.327	4.203 4.207 Carrier Contraster Co	1.786 Data Seri-O Summary Summary Summary 85 56 58 58 58 58 58 58 58 58 58 58 58 58 58	9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 10 Parta Ser-F Y N2 N2 N2 N2 Cata Ser-F Cata Ser-F Y Cata Ser-F Y Cata Ser-F Y	2.807 Gata Ser-O Gata	85 55 10 10 10 10 10 10 10 10 10 10 10 10 10
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 12 13 14 15 16 17 17 10 11 12 13 14 5 6 7 8 9 9 10 10 11 12 13 14 5 6 7 8 9 9 10 10 11 12 13 14 5 16 10 10 10 10 10 10 10 10 10 10	Residual Provide a state of Variation Table Analyzed Table Analyzed Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject Subjects (matching) ANOVA table Interaction Time Subject (matching) Zeway ANOVA Tabluar results Table Analyzed Table Anal	921.9 921.9 A Data Set-A V Data Set-A V Incorel A Autohing: Stacked 0.05 V of total variation 2.153 78.33 2.840 0.05 S S 0.05 S S S 0 0 0.05 S S S 100.8 3876 130.9 316.5 519.5 A Data Set-A V Inco abs A Data Set-A V Data Set-A C Data Set-A C Data Set-A C Data Set-A C Data Set-A Data Set-A C Data Set-A	B Data Set-B Y Value Value Volue Volu	13.88 C Data Set-C Y P value summary P value summary P value summary P value summary P value summary P value summary P value summary ns P value summary ns **********************************	D Data Set-D Y Significant? Yes Yes F (DFn, DFd) F (4, 60) = 2.872 F (4, 60) = 2.872 F (1, 14) = 5.909 F (15, 16) = 2.429 D Data Set-D Y Significant? No Yes No Yes	E Data Set-E Y P value P value P 0.0311 P 0.0311 P 0.0301 P 0.0301 E Data Set-E Y	23 24 24 7 7 7 8 9 9 10 7 8 9 9 10 7 8 9 9 10 11 11 12 13 13 14 15 15 16 19 20 21 12 21 22 23 14 14 15 15 15 16 17 17 2 13 14 12 13 14 14 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 5 Rev 5 Rev 5 Rev 6 Rev 6 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5.283 - 2.06877 V Ceta SetA - 2.06877 V V V V V V V V V V V V V	10.47 2.80	4.200 Cata Sec. C. 2477 Cata Sec. C. Significant? No No No No No No No No No No No No No	1.786 Data Sar-D- Y Summary Fa Fa Fa Fa SE of diff. 1.727 D Sammary SE of diff. 1.727 D Sammary SE of diff. SE of diff	9 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	10 10 F Cata Ser F Y - - - - - - - - - - - - -	2.287 0 Cras Se-0 Y - - - - - - - - - - - - -	85 85 10 10 10 10 10 10 10 10 10 10
17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 10 11 12 3 4 5 6 7 8 9 10 11 12 13 14 15 15 10 10 11 11 12 13 14 15 10 10 10 10 10 10 10 10 10 10	Residual Paysidual Paysidual Tabular results Tabular results Tabular results Tabular results Tuo-way RM ANOVA Alpha Source of Variation Interaction Time Subject Subjects (matching) ANOVA table Interaction Time Subjects (matching) Residual Zway ANOVA Tabular results Tabular results Tabular results Tabular results Source of Variation Interaction Time Subject Subject Subject Subject ANOVA Tabular results Anova RM ANOVA Alpha Source of Variation Interaction Time Subject Subject Subject AnovA Source of Variation Interaction Time Subject Subject AnovA Alpha Source of Variation Interaction Time Subject Subj	921.9 921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 N of total variation 2.163 2.040 0.370 2.040 0.370 30.9 315.5 5 108.6 2.040 0.05 100.9 315.5 5 108.5 2.040 0.05 100.9 315.5 5 108.5 100.0 100.9 315.5 5 108.5 100.0 100.9 315.5 5 100.0 100.9 315.5 5 100.0 100.9 10	88 B Data Set-8 Y Value 0.0311 0.0311 0.0311 0.0303 0.0097 F 4 1 1 1 5 B Data Set-8 Y Value 0.1492 0.1492 0.1492 0.0492 0.0073 0.1029 DF	13.88 C Data Set-C P value summary P value summary P value summary NS 28.54 S8.57 C Data Set-C V P value summary P value summary S8.57 C Data Set-C V P value summary s8.57 C S8.57 C Data Set-C S8.57 C S8.5	D Data Sel-D Y Significant? Yes Yes F (DFn, DFd) F (4, 56) = 2.872 F (4, 56) = 104.5 F (1, 14) = 5.809 F (14, 56) = 2.429 D Data Sel-D Y Significant? No Significant? No F (DFn, DFd) F (DF	E Data Set-E Y P value P value P = 0.0311 P = 0.0303 P = 0.0097 E Data Set-E Y P value P value	23 24 24 2 3 3 4 3 5 6 6 7 7 8 9 9 10 11 11 12 13 14 15 16 17 17 20 21 22 23 24 24 24 24 24 24 24 24 25 15 16 17 17 18 19 20 10 11 11 21 13 14 14 15 15 16 16 17 17 18 19 19 20 10 11 11 10 10 11 11 10 10 10 10 10 10	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rev 5 Rever 4 Rev 5 Rev 6 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7 Rev	5.283 0.00007	10.47 250 0 0 0 0 0 0 0 0 0 0 0 0 0	4.203 4.207 Christer(7) Significant? Significant? No	1.786 Data Ser-O Cat Ser-O Y Summary Estimation Estimat	9 9 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Data Stor F Y Y N2 N2 N2 Cata Stor F Cata Stor F Cata Stor F Cata Stor F Cata Stor F N2 N2 N2 N2 N2 N2 N2 N2 N2 N2	2.807 Gata Ser-O T	65 55 10 10 10 10 10 10 10 10 10 10
17 17 1 2 3 4 5 6 7 8 9 9 9 10 11 12 13 14 15 16 17 16 17 17 18 19 10 11 12 13 14 5 6 6 7 8 9 9 9 9 9 10 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Residual Pesidual Pesidual Tabukar results Tabukar results Tabukar results Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject Subject (matching) ANOVA table Interaction Tabukar results Source of Variation Interaction Time Subject Subjects Subjec	921.9 921.9 A Data Set V T Data Set V for rel Matching: Stacked 0.05 V of fotal variation 2.153 7 0.33 2.640 0.05 S S S S S S S S S S S S S S S S S S	B Duta Set-B Y Value 0.0311 < 0.0001 0.0097 DF 4 4 1 1 5 B B Duta Set-B Y Value 0.001 0.0097 DF 4 4 1 1 4 0 0.009 P value 0.0097 DF 4 4 1 1 1 4 0 1 0.000 0.0097 DF 4 4 1	13.88 C Data Set-C V P value summary P value summary P value summary N S 22.84 988.9 130.9 22.84 988.9 130.9 22.84 988.9 130.9 P value summary P value summary P value summary N P value summary N S 15.34 Set C Set	D Data Set-D Y Significant? Yes Yes F (14, 50) = 2.872 F (4, 50) = 2.872 F (4, 50) = 1.035 F (11, 14) = 5.809 F (14, 50) = 2.429 D Data Set-D Y Significant? No Yes Yes F (15, 50) = 1.035 No F (15, 50) = 1.753 No F (16, 5	E Data Set-E Y P value P = 0.0311 P < 0.0001 P = 0.0303 P = 0.0007 E Data Set-E Y P value P = 0.1482 P = 0.1482 P = 0.1482	23 24 1 2 3 3 4 5 6 6 7 7 8 9 9 10 7 8 9 9 10 11 11 12 13 13 14 15 16 19 20 21 22 23 24 24 10 10 11 11 12 13 14 15 5 6 6 7 7 7 7 7 8 9 9 10 10 2 10 2 10 2 10 2 10 2 10 2 10	Rev 4 Rev 5 Rev 5 Rev 5 Rev 5 Rev 5 Rev 6 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7	5.283 2.00807 Cons Sen.A. 9.00807 1 0 0.05	19.47 280 Data Sin-0 Team Sin-0 Si	4.2003 Catal Site C. 2497 Significant? No No No No No No No No No No No No No	1.785 0 014 0 014 0 014 0 0 0 0 0 0 0 0 0 0 0	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Class Gen-F Y N2 N2 N2 N2 N2 N2 N2 N2 N2 N2	2.207 0 Chat Ser-O 1 1 1 1 1 1 1 1 1 1 1 1 1	85 55 10 10 10 10 10 10 10 10 10 10
17 17 1 2 3 4 5 6 7 7 8 9 10 11 12 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 7 7 8 9 10 11 12 13 14 15 16 10 10 10 10 10 10 10 10 10 10	Residual	921.9 921.9 A Data Set-A Y Inco rel Matching: Stacked 0.05 % of total variation 2.163 78.33 2.248 0.378 2.248 0.378 58 50 108.6 378 30 519.5 519.5 519.5 519.5 6 A Data Set-A Data Set-A Data Set-A Data Set-A Set A Code Set 1.008 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	68 B Data Set-8 Y P value 0.0311 < 0.0311 < 0.0311 < 0.0313 0.097 4 4 1 1 50 B Data Set-8 Y P value 0.1452 < 0.001 0.0452 P value 0.1452 < 0.0073 0.1029 DF 4 4 4	13.88 C Data Set-C Y P value summary P value summary *** *** *** *** *** *** *** *** ***	D Data Set-D Y Significant? Yes Yes Yes F(DFn, DFd) F (4, 50) = 2.872 F (4, 50) = 104.5 F (1, 14) = 5.809 F (14, 50) = 2.429 D Data Set-D Y Significant? No Significant? No F (DFn, DFd) F (14, 50) = 91.46	E Data Set-E Y P value P value P 0.0311 P 0.0301 P 0.0301 P 0.0303 P 0.0097 E Data Set-E Y Data Set-E Y P 0.0492 P 0.049	23 24 7 1 2 3 3 4 5 6 6 7 7 8 9 9 7 7 8 9 9 10 11 11 22 13 14 15 16 17 18 19 20 21 10 21 13 14 15 16 6 7 7 8 9 9 9 9 9 10 11 11 12 2 3 1 4 4 5 6 6 7 7 7 7 8 9 9 9 10 10 11 11 12 2 13 14 14 15 15 16 10 10 10 11 11 12 2 13 14 14 15 16 10 10 10 10 10 10 10 10 10 10 10 10 10	Rev 4 Rev 5 Rev 6 Rev 6 Rev 6 Rev 7 Rev 6 Rev 7	5.283 0.00007	10.47 250 0 0 0 0 0 0 0 0 0 0 0 0 0	4.203 2477 Cuta Sur-Cuta Supplicant? Supplicant? Supp	1786 Data Ser-O- Y Summary Summary Summary SE of diff. 1727 1727 1727 1727 1727 1727 1727 172	9 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Catal Ser F Y 	2.807 Cata Ser-O Tara Ser-O Y Y Y Y Y Y Y Y Y Y Y Y Y	65 55 10 10 10 10 10 10 10 10 10 10
17 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 12 13 14 15 16 17 17 10 11 12 13 14 15 16 17 17 10 11 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17	Residual Residual Residual Augha Tabukar results Tabukar results Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject Subjects (matching) ANOVA table Interaction Table Analyzed Tabukar results Table Analyzed Tabukar results Tabukar results Tabukar results Source of Variation Interaction Time Subject Subjects (matching) ANOVA table Interaction Time Subjects (matching) ANOVA table Interaction Time Subjects (matching) ANOVA table Interaction Time Subjects (matching) ANOVA table Interaction Time Subjects (matching) ANOVA table Interaction Time Subject Sub	921.9 921.9 A Data Set-A V Inco rel Matching: Stacked 0.05 519.5 619.5 70.30 70.21 70.00 70.21 70.00 70.21 70.00 70.21 70.00 70.21 70.00 70.21 70.00 70.21 70.00 70.27 70.00 70.00 70.00 70.27 70.00 7	88 B Data Set-8 Y Value 0.0311 0.0311 0.0303 0.0097 DF 4 1 1 1 50 B Dsta Set-8 Y P value 0.1492 4 0.0001 0.0007 0.0007 0.1029 DF 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.86 C Data Set-C Y P value summary *** MS 22.54 9.277 C Data Set-C Y P value summary ns *** ** *** *** *** *** *** *** *** *	D Data Sel-D Y Significant? Yes Yes Yes F (DFn, DFd) F (4, 50) = 2.872 F (4, 50) = 1.045 F (1, 14) = 5.009 F (14, 50) = 2.429 D Data Sel-D Y Significant? No F (DFn, DFd) F (4, 50) = 1.703 F (4	E Data Set-E Y P value P value P = 0.0311 P < 0.0001 E Data Set-E Y P = 0.0357 E Data Set-E Y P = 0.1482 P = 0.0073	23 24 24 2 3 4 5 6 7 7 8 9 9 10 11 11 22 3 4 5 6 7 7 8 9 9 10 11 11 12 2 13 14 15 16 17 13 14 15 16 17 20 21 22 22 22 24 24 10 11 11 12 13 14 14 15 16 16 17 17 18 19 20 10 11 11 12 2 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rev 5 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7	5.283 0.06077	19.47 280 Data Set 8 4.599 to 4.699 4.291 to 4.699 4.291 to 4.699 4.294 to 4.699 4.294 to 4.699 4.294 to 4.694 4.295 to 4.699 1.291 to 4.699 1.292 to 4.694 4.965 to 4.699 1.292 to 4.694 4.965 to 4.699 1.292 to 4.694 4.965 to 4.699 1.292 to 4.694 4.965 to 4.699 1.292 to 4.695 1.292 to 4.695 1.297 to 0.479 0.00 1.297 to 0.479 1.297 to 0.4795 1.297 to 0.4795 1.297 to 0.479	4.203 4.207 Conta Serci 4.207	1,786 Data Seri-O Summary Summary Summary Series Series Second Series SE of diff. 1,727 1,727 1,727 1,727 0 Crista Seri-O Crista Series C Second Series C Second Series Second Series Second Series Second Series Second Series Second Series Second Se	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 F Data Sur-F Y N N N N N N N N N N N N N	2.807 Gata Ser-O Y Y V V V V V V V V V V V V V	55 55 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
17 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 11 12 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 10 10 11 11 12 13 14 15 16 10 10 10 10 10 10 10 10 10 10	Residual Provide a state of variation Table Analyzed Table Analyzed Table Analyzed Turo-way RM ANOVA Alpha Source of Variation Interaction Time Subject (matching) ANOVA table Interaction Table Analyzed Zway ANOVA Tabluar results Table Analyzed Table Analyzed Table Analyzed Table Analyzed Table Analyzed Anova RM ANOVA Alpha Source of Variation Interaction Inte	921.9 921.9 A Data SetA y Cata SetA se	B Data Set-B Y P value 0.0311 < 0.0001	13.88 C Data Set-C Y P value summary P value summary P value summary P value summary P value summary P value summary P value summary P value summary ns P value summary ns NS NS NS NS NS NS NS NS NS NS NS NS NS	D Data Set-D Y Significant? Yes Yes Yes F (DFn, DFd) F (4, 60) = 2.872 F (4, 60) = 2.872 F (4, 60) = 2.429 D Data Set-D Yes Significant? No Yes Yes Significant? No F (14, 60) = 1.703 F (4, 50) = 1.703 F (4, 50) = 1.703 F (4, 50) = 1.703 F (1, 50) = 9.402 F (1, 10) = 9.812 F (1, 10) = 9.812 F (1, 10) = 9.812	E Data Set-E Y P value P value P 0.0311 P 0.0301 P 0.0301 P 0.0097 E Data Set-E Y P 0.045 P 0.	23 24 3 4 1 2 3 3 4 4 5 6 7 7 8 9 9 9 7 7 8 9 9 9 10 11 11 12 13 13 14 15 16 17 7 18 19 20 21 22 23 24 24 10 10 11 11 20 12 11 20 20 21 20 21 22 23 24 24 24 20 20 21 21 20 21 20 21 20 21 20 21 20 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	Rev 4 Rev 3 Rev 3 Rev 4 Rev 3 Rev 5 Rev 4 Rev 5 Rev 5 Rev 5 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7 Rev 6 Rev 7	5.283 0.200877 V Detr. Ser.A. 1 0 0.05 0.05 0.05 0.05 0.05 0.05 0.05	10.47 250	4.200 Catal Sec. C Data Sec. C Significant? Significant? No No No No No No No No No No	1.786 Data Sar-Do Y Summary F Sammary Sammary Sammary SE of diff. SE of diff. SE of diff. SE of diff. Sammary SE of diff. Sammary SE of diff. Sammary SE of diff. Sammary SE of diff. Sammary SE of diff. Sammary SE of diff. SE of	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2.287 0 Crass Ser-O Y V V V V V V V V V V V V V	85 85 The Data Seriel The Data Seriel

IPGTT: 2-WAY REPEATED MEASURES ANOVA & SIDAK CORRECTION *POST HOC*

1	t test		Ħ		t test		
1	Table Analyzed	Males abs	1	Table An	alyzed	Mai	les rel
2			2				
3	Column B	Sedentary-Inoculated	3	Column	в	Sec	dentary-Inoculated
4	vs.	VS.	4	vs.		vs.	
5	Column A	Exercise-Inoculated	5	Column	A	Exe	ercise-Inoculated
6			6				
7	Unpaired t test		7	Unpaired	d t test		
8	P value	0.2279	8	P value	e	0.5	508
9	P value summary	ns	9	P value	e summary	ns	
10	Significantly different? (P < 0.05)	No	10	Signific	cantly different? (P < 0.05)	No	
11	One- or two-tailed P value?	Two-tailed	11	One- o	r two-tailed P value?	Two	p-tailed
12	t, df	t=1.511 df=3	12	t, df		t=0	.6506 df=4
13			13				
14	How big is the difference?		14	How big	is the difference?		
15	Mean ± SEM of column A	2182 ± 117.2 N=3	15	Mean ±	E SEM of column A	135	52 ± 422.3 N=4
16	Mean ± SEM of column B	2419 ± 55.50 N=2	16	Mean ±	SEM of column B	936	3.8 ± 133.5 N=2
1/	Difference between means	237.0 ± 156.8	1/	Differe	ence between means	-41	5.5 ± 638.7
10	95% confidence interval	-262.1 to 736.1	10	95% 00	onfidence interval	-21	89 to 1358
20	R square	0.4323	20	R squa	ire	0.0	9009
20	E test to compare underset		21	E to st to		-	
22	E DEs Dfd		22	E DEa	Did	-	
23	P value		23	P value		-	
24	P value summary		24	Pyalue	e summary	-	
25	Significantly different? (P < 0.05)		25	Signific	cantly different? (P < 0.05)	-	
L		1					
10	t test				t test		
	(toot						
	(1001					_	
1	Table Analyzed	Females abs		1	Table Analyzed		Females rel
1 2	Table Analyzed	Females abs		1 2	Table Analyzed		Females rel
1 2 3	Table Analyzed	Females abs Sedentary-Inoculated		1 2 3	Table Analyzed Column B		Females rel Sedentary-Inoculated
1 2 3 4	Table Analyzed Column B vs.	Females abs Sedentary-Inoculated vs.		1 2 3 4	Table Analyzed Column B vs.		Females rel Sedentary-Inoculated vs.
1 2 3 4 5	Table Analyzed Column B vs. Column A	Females abs Sedentary-Inoculated vs. Exercise-Inoculated		1 2 3 4 5	Column B vs. Column A		Females rel Sedentary-Inoculated vs. Exercise-Inoculated
1 2 3 4 5 6	Table Analyzed Column B vs. Column A	Females abs Sedentary-Inoculated vs. Exercise-Inoculated		1 2 3 4 5 6	Column B VS. Column A		Females rel Sedentary-Inoculated vs. Exercise-Inoculated
I I 2 3 4 5 6 7	Table Analyzed Column B vs. Column A Unpaired t test	Females abs Sedentary-Inoculated vs. Exercise-Inoculated		1 2 3 4 5 6 7	Column B VS. Column A Unpaired t test		Females rel Sedentary-Inoculated vs. Exercise-Inoculated
I I 2 3 4 5 6 7 8 8	Table Analyzed Column B vs. Column A Unpaired t test P value	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132		1 2 3 4 5 6 7 8	Column B vs. Column A Unpaired t test P value		Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390
I I 2 3 4 5 6 7 8 9	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns		1 2 3 4 5 6 7 8 9	Column B vs. Column A Unpaired t test P value P value summary		Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns
I I 2 3 4 5 6 7 8 9 10 10	Table Analyzed Column B vs. Column A Unpaired t test P value P value Significantly different? (P < 0.05)	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No		1 2 3 4 5 6 6 7 7 8 9 9 10	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0		Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No
I I 2 3 4 5 6 7 8 9 10 11	Table Analyzed Column B vs. Column A Unpaired t test P value P value Significantly different? (P < 0.05) One- or two-tailed P value?	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed		1 2 3 4 5 6 7 7 8 9 10 11	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0 One- or two-tailed P value?	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed
I I 2 3 4 5 6 7 8 9 10 11 12 12	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6		1 2 3 4 5 6 7 8 9 10 11 12	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=6
I I 2 3 4 5 6 7 8 9 10 11 12 13	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6		1 2 3 4 5 6 7 8 9 10 11 12 13	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8
Image: 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference?	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6		1 2 3 4 5 6 7 8 9 10 11 12 13 14	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference?	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.706 df=6
Image: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6 1872 ± 149.1 N=4		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 0.000 df=8
I I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=0 1872 ± 149.1 N=4 2219 ± 199.2 N=4		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 680.4 ± 156.1 N=4 1043 ± 161.0 N=4
Image: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Difference between means	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=8 1872 ± 149.1 N=4 2219 ± 199.2 N=4 346.5 ± 248.8		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 680.4 ± 156.1 N=4 1043 ± 161.0 N=4 382.5 ± 224.3
Image: constraint of the second se	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6 1872 ± 149.1 N=4 2219 ± 199.2 N=4 346.5 ± 248.8 -202.3 to 955.3		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 080.4 ± 156.1 N=4 1043 ± 161.0 N=4 382.5 ± 224.3 -166.2 to 931.2
Image: constraint of the second se	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=8 1872 ± 149.1 N=4 2219 ± 199.2 N=4 346.5 ± 248.8 -282.3 to 955.3 0.2443		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 080.4 ± 156.1 N=4 1043 ± 161.0 N=4 382.5 ± 224.3 -186.2 to 931.2 0.3285
Image: line with the second	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6 1872 ± 149.1 N=4 2219 ± 199.2 N=4 346.5 ± 248.8 -262.3 to 955.3 0.2443		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.706 df=6 680.4 ± 156.1 N=4 1043 ± 161.0 N=4 382.5 ± 224.3 -186.2 to 931.2 0.3285
Image: line with the second	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=6 1872 ± 149.1 N=4 2219 ± 199.2 N=4 346.5 ± 248.8 -262.3 to 955.3 0.2443		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 680.4 ± 158.1 N=4 1043 ± 181.0 N=4 382.5 ± 224.3 -188.2 to 931.2 0.3285
Image: line system 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd	Females abs Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=8 1872 ± 149.1 N=4 2219 ± 199.2 N=4 340.5 ± 248.8 -262.3 to 955.3 0.2443 1.783, 3, 3		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 680.4 ± 158.1 N=4 1043 ± 181.0 N=4 382.5 ± 224.3 -168.2 to 931.2 0.3285
Image: constraint of the second se	Table Analyzed Column B vs. Column A Unpaired t test P value P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=0 1872 ± 149.1 N=4 2219 ± 199.2 N=4 340.5 ± 248.8 -262.3 to 955.3 0.2443 1.783, 3, 3 0.6465		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 680.4 ± 158.1 N=4 1043 ± 181.0 N=4 382.5 ± 224.3 -186.2 to 931.2 0.3285
Image: constraint of the second state of the seco	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0.05) One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value P value	Females abs Sedentary-Inoculated vs. Exercise-Inoculated 0.2132 ns No Two-tailed t=1.393 df=8 1872 ± 149.1 N=4 2219 ± 199.2 N=4 348.5 ± 248.8 -262.3 to 955.3 0.2443 1.783, 3, 3 0.8465 ns		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Table Analyzed Column B vs. Column A Unpaired t test P value P value summary Significantly different? (P < 0 One- or two-tailed P value? t, df How big is the difference? Mean ± SEM of column A Mean ± SEM of column B Difference between means 95% confidence interval R square F test to compare variances F,DFn, Dfd P value P value summary	0.05)	Females rel Sedentary-Inoculated vs. Exercise-Inoculated 0.1390 ns No Two-tailed t=1.708 df=8 080.4 ± 158.1 N=4 1043 ± 161.0 N=4 382.5 ± 224.3 -186.2 to 931.2 0.3285 1.085, 3, 3 0.9802 ns

IPGTT: AUC T-TESTS – Sex Differences

| | 2man &M01/A | A | B | С | D
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 | ¥n. | 2way ANOVA
 | A | В
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Ħ	Zway ANUVA Tabular results	Data Set-A
 | Data Set-F
 | | Multiple comparisons
 | Data Set-A | Data Set-B
 | Data Set-C | Data Set-D | Data Set-E | Data Set-F
 | Data Set-G | Data Set-H |
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| 1 | Table Apply and | Malas aks 2000 | | - |
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 | 2 | ompare leader der mean wich die durer der mean in diat row.
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| 2 | Table Analyzed | males aus zway | | |
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 | 3 N | umber of families
 | 1 |
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| - | The second DM ANIONA | Matching: Otrophysic | | |
 |
 | 4 1 | umber of comparisons per family
 | 5 |
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 | | |
| 4 | Two-way RM ANOVA | Matching: Stacked | | |
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 | 6 | pra
 | 0.05 |
 | | | | | |
 | | |
| * | Alpha | 0.05 | | |
 |
 | 7 5 | idak's multiple comparisons test
 | Mean Diff. | 95% CI of diff.
 | Significant? | Summary | | | |
 | | |
| 2 | | | | |
 |
 | 8 |
 | |
 | | | |
 | | |
| 6 | Source of Variation | % of total variation | P value | P value summary | Significant?
 |
 | 9 | Exercise-Incoulated - Sedentary-Incoulated
 | 1.400 | 0.272 to 0.472
 | Ne | | |
 | | |
| 1 | Interaction | 1.100 | 0.8528 | ns | No
 |
 | 11 | Row 2
 | 1.000 | -8.873 to 8.873
 | No | ns | |
 | | |
| 8 | Time | 83.27 | < 0.0001 | | Yes
 |
 | 12 | Row 3
 | -2.050 | -9.923 to 5.823
 | No | ns | |
 | | |
| 9 | Column Factor | 1.423 | 0.0701 | ns | No
 |
 | 13 | Row 4
 | -2.900 | -10.77 to 4.973
 | No | ns | |
 | | |
| 10 | Subjects (matching) | 0.9443 | 0.8838 | ns | No
 |
 | 15 | Rows
 | -3.433 | -11.31 to 4.440
 | NO | ns | | | |
 | | |
| 11 | | | | |
 |
 | 16 |
 | |
 | | | |
 | | |
| 12 | ANOVA table | SS | DF | MS | F (DFn, DFd)
 | P value
 | 17 T | est details
 | Mean 1 | Mean 2
 | Mean Diff. | SE of diff. | N1 | N2
 | t | DF |
| 13 | Interaction | 17.90 | 4 | 4.474 | F (4, 16) = 0.3317
 | P = 0.8526
 | 18 | Evening languisted Codestant languisted
 | |
 | | | |
 | | |
| 14 | Time | 1355 | 4 | 338.7 | F (4, 16) = 25.11
 | P < 0.0001
 | 20 | Row 1
 | 10.13 | 11.53
 | -1.400 | 2.776 | 3 | 3
 | 0.5043 | 20 |
| 15 | Column Factor | 23.14 | 1 | 23.14 | F (1, 4) = 0.028
 | P = 0.0701
 | 21 | Row 2
 | 28.40 | 27.40
 | 1.000 | 2.776 | 3 | 3
 | 0.3802 | 20 |
| 16 | Subjects (matching) | 15.38 | 4 | 3.841 | F (4, 16) = 0.2847
 | P = 0.8836
 | 22 | Row 3
 | 24.70 | 28.75
 | -2.050 | 2.776 | 3 | 3
 | 0.7385 | 20 |
| 17 | Residual | 215.8 | 16 | 13.49 |
 |
 | 23 | Row 5
 | 17.40 | 20.30
 | -2.900 | 2.776 | 3 | 3
 | 1.045 | 20 |
| | 2 | A | I B | l C | I D
 | I E
 | 1 1 | 2way ANOVA
 | A | B
 | C | D | E | F
 | G | н |
| 1 | Zway ANUVA
Tabular results | Data Set-A | Data Set-B | Data Set.C | Data Set-D
 | Data Set-F
 | | Multiple comparisons
 | Data Set- | A Data Set-B
 | Data Set- | C Data Set- | Data Set- | E Data Set
 | F Data Set- | G Data Set |
| | | V V | Vata Set-B | Vala Sel-C | Vala Sel-D
 | Vala Sel·C
 | |
 | Y | Ŷ
 | Y | Y | Y | Y
 | Y | Y |
| 1 | Table Appl and | Malas and Durau | · · · | |
 | · ·
 | 2 | Compare each des mean with the other des mean in that it
 | u. |
 | | - | - | -
 | + | - |
| 2 | Table Analyzed | Males rei zway | - | |
 |
 | 3 | Number of families
 | 1 |
 | | | | | |
 | | |
| 2 | Torrest Diversion | Matching, Crossing | | - |
 |
 | 4 | Number of comparisons per family
 | 5 |
 | | | | | |
 | | |
| 3 | IWO-WBY KM ANOVA | matching: Stacked | | |
 |
 | 6 | npna
 | 0.05 | +
 | | | - | -
 | + | - |
| 4 | Alpha | 0.05 | | |
 |
 | 7 | Sidak's multiple comparisons test
 | Mean Diff. | 95% CI of diff.
 | Significant? | Summary | | | |
 | | |
| 3 | | | - | |
 |
 | 8 |
 | |
 | | | |
 | | |
| 6 | Source of Variation | % of total variation | P value | P value summar | y Significant?
 |
 | 9 | Exercise-Inoculated - Sedentary-Inoculated
Row 1
 | 0.0 | -8 213 to 8 213
 | No | 05 | - | -
 | + | - |
| 1 | Interaction | 0.7928 | 0.8724 | ns | No
 | -
 | 11 | Row 2
 | 2.083 | -6.130 to 10.30
 | No | ns | 1 | -
 | + | - |
| 8 | Time | 77.59 | < 0.0001 | | Yes
 |
 | 12 | Row 3
 | 2.100 | -8.113 to 10.31
 | No | ns | |
 | | |
| 9 | Column Factor | 0.08560 | 0.7788 | ns | No
 |
 | 13 | Row 4
 | -0.6833 | -8.897 to 7.530
 | No | ns | |
 | | |
| 10 | Subjects (matching) | 4.859 | 0.2383 | ns | No
 |
 | 15 | Row 5
 | -1.217 | -9.430 to 0.99/
 | No | ns | | | |
 | + | |
| 11 | | | | |
 |
 | 16 |
 | |
 | | | |
 | + | |
| 12 | ANOVA table | SS | DF | MS | F (DFn, DFd)
 | P value
 | 17 | Test details
 | Mean 1 | Mean 2
 | Mean Diff. | SE of diff. | N1 | N2
 | t | DF |
| 13 | Interaction | 16.55 | 4 | 4.138 | F (4, 20) = 0.3032
 | P = 0.8724
 | 18 | Exercise-Inoculated - Sedentary-Inoculated
 | |
 | | | |
 | + | |
| 14 | Time | 1620 | 4 | 405.1 | F (4, 20) = 29.68
 | P < 0.0001
 | 20 | Row 1
 | 0.0 | 0.0
 | 0.0 | 2.958 | 4 | 3
 | 0.0 | 25 |
| 15 | Column Factor | 1.788 | 1 | 1.788 | F (1, 5) = 0.08808
 | P = 0.7788
 | 21 | Row 2
 | 17.95 | 15.87
 | 2.083 | 2.958 | 4 | 3
 | 0.7048 | 25 |
| 16 | Subjects (matching) | 101.5 | 5 | 20.29 | F (5, 20) = 1.487
 | P = 0.2383
 | 22 | Row 3
 | 16.50 | 14.40
 | 2.100 | 2.958 | 4 | 3
 | 0.7105 | 25 |
| 17 | Residual | 273.0 | 20 | 13.65 |
 |
 | 24 | Row 5
 | 1.233 | 2.450
 | -1.217 | 2.958 | 4 | 3
 | 0.4118 | 25 |
| | | | | |
 |
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 | | _
 | - | _ | - | _
 | _ | |
| | 2 AMOV/A | A | B | C | D
 | E
 | 1 80 | 2way ANOVA
 | A | В
 | c | D | E | F
 | G | н |
| 1 | 2way ANOVA
Tabular results | A
Data Set-A | B
Data Set-B | C
Data Set-C | Data Set-D
 | E
Data Set-F
 | 1 | 2way ANOVA
Multiple comparisons
 | A
Data Set-A | B
Data Set-B
 | C
Data Set-C | Data Set-D | E
Data Set-E | F
Data Set-F
 | G
Data Set-G | H
Data Set-H |
| 1 | 2way ANDVA
Tabular results | A
Data Set-A
Y | B
Data Set-B | C
Data Set-C
Y | Data Set-D
 | E
Data Set-E
Y
 | 1 | 2way ANOVA
Multiple comparisons
 | A
Data Set-A
Y | B
Data Set-8
Y
 | C
Data Set-C
Y | D
Data Set-D
Y | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1 | 2way ANOVA
Tabular results
Table Analyzed | A
Data Set-A
Y
Females rel 2way | B
Data Set-B
Y | C
Data Set-C
Y | Data Set-D
Y
 | E
Data Set-E
Y
 | 1 | 2way ANBVA
Multiple comparisons
Compare each cell mean with the other cell mean in that row
 | A
Data Set-A
Y | B
Data Set-B
Y
 | C
Data Set-C
Y | Data Set-D
Y | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1 2 | 2way ANOVA
Tabular results
Table Analyzed | A
Data Set-A
Y
Females rel 2way | B
Data Set-B
Y | C
Data Set-C
Y | D
Data Set-D
Y
 | E
Data Set-E
Y
 | 1 2 3 | 2way ANDVA
Multiple comparisons
Compare each ceil mean with the other ceil mean in that now
Number of families
 | A
Data Set-A
Y | B
Data Set-8
Y
 | C
Data Set-C
Y | Data Set-D
Y | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3 | 2way ANOVA
Tabular results
Table Analyzed | A
Data Set-A
Y
Females rel 2way
Matching: Stacked | B
Data Set-B
Y | C
Data Set-C
Y | D
Data Set-D
Y
 | E
Data Set-E
Y
 | 1
2
3
4
5 | 2way ANDVA
Multiple comparisons
Compare each cell mean with the other cell mean in that row
Number of families
Number of comparisons per family
Alba
 | A
Data Set-A
Y
1
5
0.05 | B
Data Set-B
Y
 | C
Data Set-C
Y | Data Set-D
Y | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Aloha | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05 | B
Data Set-B
Y | C
Data Set-C
Y | D
Data Set-D
Y
 | E
Data Set-E
Y
 | 1
2
3
4
5
6 | Zency ANDVA
Multiple comparisons
Compare said cell mean with the other cell mean in that row
Number of comparisons per family
Apha
 | A
Data Set-A
Y
1
5
0.05 | B
Data Set-8
Y
 | C
Data Set-C
Y | Data Set-D
Y | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4
5 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05 | B
Data Set-B
Y | C
Data Set-C
Y | D
Data Set-D
Y
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8 | 2wey ANDVA
Multiple compations
Compare each at mean with the other call mean in that row
Number of maintees
Number of compations are family
Alpia
Stah's multiple comparisons test
 | A
Data Set-A
Y
1
5
0.05
Mean Diff. | B
Data Set-B
Y
S5% Ci of diff.
 | C
Data Set-C
Y
Significant? | D
Data Set-D
Y
Summary | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4
5
6 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
9% of total variation | B
Data Set-B
Y
P value | C
Data Set-C
Y
P value summar | D
Data Set-D
Y
Significant?
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9 | 2 Amag ANDVA
Mitple comparisons
Compare such call mass with the other cell mean in that now
Number of transits
Again
Stark's nutling comparisons test
Exercise-Involuted - Sederlary-Involuted
 | A
Data Set-A
Y
1
5
0.05
Mean Diff. | B
Data Set-B
Y
S6% CI of diff.
 | C
Data Set-C
Y
Significant? | D
Data Set-D
Y
Summary | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4
5
6
7 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151 | B
Data Set-B
Y
P
P value
0.0006 | C
Data Set-C
Y
P value summar | D
Data Set-D
Y
Significant?
Yes
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9
10 | 2 weap ANDVA
Multiple comparison of the other set man in that row
Number of transities with the other set man in that row
Number of transities
Apile
Bate's multiple comparisons test
Exercise-Incolated - Selentary-Incolated
Rev 1
 | A
Data Set-A
Y
1
5
0.05
Mean Diff.
0.0 | B
Data Set-B
Y
S5% CI of diff.
-5.437 to 5.437
 | C
Data Set-C
Y
Significant? | D
Cata Set-D
Y
Summary | E
Data Set-5
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4
5
6
7
8 | Zway ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction
Time | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.161
70.29 | B
Data Set-B
Y
P
P value
0.0008
< 0.0001 | C
Data Set-C
Y
P value summar | D
Data Set-D
Y
Significant?
Yes
Yes
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9
10
11
11 | 2way ANDVA
Multiple companions
Multiple companions
Congare auxies with the other cell mean in that nor
Number of manians
Munther of companions per tamby
Apia
Salvia multiple companions test
Exercise-Incolated - Selectrag-Incolated
Res 1
Res 2
Res 1
 | A
Data Set-A
Y
1
5
5
0.05
Mean Diff.
0.0
-8.280
-8.280
-8.270 | B
Data Set-B
Y
95% CI of diff.
-5.437 to 5.437
-13.70 to -2.823
 | C Data Set-C Y Significant? No Yes Van | D
Data Set-D
Y
Summary
ns | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Set-G
Y | H
Data Set-H
Y |
| 1
2
3
4
5
6
7
8
9 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501 | B Data Set-B Y Data Set-B Y Data Set-B O O O O O O O O O O O O O O O O O O O | C
Data Set-C
Y
P value summar | D
Data Set-D
Y
Significant?
Yes
Yes
Yes
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9
10
11
11
12
13 | Zwang MKIVA
Multiple comparisons Compare such call mass with the other cell mean in that now
Number of transits Number of transits Stark's number comparisons are transy
Agia Stark's number comparisons test Exercise-Incodenter - Sedertray-Incodented
Res 1 Res 2 Res 3 Res 4
 | A
Data Set-A
Y
1
5
0.05
Mean Diff.
0.0
-3.250
-3.250
-4.438 | B
Data Set-8
Y
95% Cl of diff.
-5.437 to 5.437
-13.70 to -2.823
-15.15 to -4.273
-8.875 to 0.9990
 | C
Data Set-C
Y
Significant?
Significant?
No
Yes
Yes
No | D
Data Set-D
Y
Summary
Summary | E
Data Set-E
Y | F
Data Set-F
Y
 | G
Data Sel-Q
Y | H
Data Set-H
Y |
| 1
2
3
4
5
6
7
8
9
10 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching) | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501
4.205 | B Data Set-B Y P Value 0.0006 < 0.0001 0.0096 0.0300 | C
Data Set-C
Y
P value summar
*** | Data Set-D
Y
y
Significant?
Yes
Yes
Yes
Yes
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
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9
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11
11
12
13
14 | Zeege ANDVA Multiple comparison Congare each call mans with the other call mans in that row Congare each call mans with the other call mans in that row Status of comparisons per family Apple Status on tuple comparisons test Exemine-Incolated - Selentary-Incolaned Rev 1 Rev 3 Rev 4
 | A
Data Sat-A
Y
1
5
0.05
0.0
5
0.0
5
2.200
-3.200
-3.210
-4.438
0.03500 | B
Data Set-8
Y
95% CL of diff.
5437 to 5.437
-13.5 to 1.4223
-15.5 to 1.4223
-5.472 to 5.472
 | C
Data Set-C
Y
Significant?
Yes
Yes
No
No
No | D
Data Set-D
Y
Summary
ns
**
**
**
**
** | E
Data Set-E
Y | F
Data Set-F
V
 | G
Data Sel-G
Y | H
Data Set-H
Y |
| 1
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3
4
5
6
7
8
9
10
11 | 2way ANOVA
Tabular results
Table Analyzed
Teo-way RM ANOVA
Alpha
Source of Variation
Instraction
Time
Column Factor
Subjects (matching) | A Data Set-A V Females rel 2way Matching: Stacked 0.05 5% of total variation 6.151 70.29 7.501 4.208 | B Data Set-B Y P value 0.0006 < 0.0001 0.0096 0.0001 0.0096 0.0001 0.0096 0.0001 0.0096 0.0001 0.0096 0.0000 0.000 | C
Data Set-C
Y
P value summar

*** | Data Set-D
Y
Y
Significant?
Yes
Yes
Yes
Yes
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9
10
11
11
2
13
14
15
15 | Zenagr ANDVA Multiple comparison Congree such call mean with the others of mean in that row Number of congristence per family Apia Deter of congristence per family Apia Basic multiple comparisons test Exercise-locolated - Selectings-throculated Bes 1 Bes 2 Bes 3 Bes 4 Bes 4
 | A
Data Set-A
Y
1
5
0.06
Mean Diff.
0.0
 | B
Data Set-8
Y
95% CI of alff.

 | C
Data Set-C
Y
Significant?
No
No
No
No
No
No | D
Data Set-D
Y
Summary
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Summary | E
Data Set-E
Y | F
Data Set-F
V
 | а
Data Set-G
У | H
Data Set-H
Y |
| 1
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5
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11
11
12 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table | A
Data Sel-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501
4.208
SS | B Data Set-B Y Data Set-B Y Data Set-B Y D D D D D D D D D D D D D D D D D D | C
Data Set-C
Y
P value summar

*** | D
Data Set-D
Y
y Significant?
Yes
Yes
Yes
F (DPn, DFd)
 | E
Data Set-E
Y
 | 1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17 | Zwang MKUA
Multiple comparisons Compare such call mass with the other cell mean in that now
Number of tambias Number of tambias Stark's number comparisons are tamby
Agia Stark's number comparisons test Exercise-Incodented - Selectrary-Incodented
Bes 1 Bes 3 Bes 4 Bes 4 Bes 5 Text details
 | A
Data Set-A
Y
1
5
0.05
Mean Diff.
0.0
-8.200
-9.710
-4.438
0.03500
Mean 1 | B
Data Set-8
Y
55% CI of alff.
55% CI of alff.

 | C
Data Set-C
Y
Significant?
No
No
No
No
No
No
No
No
No | D
Data Set-D
Y
Summary
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Data Set-E
Y | F
Data Set-F
Y
N2
 | 6
Data Set-3
Y | H
Data Set-H
Y
DF |
| 1
2
3
4
5
6
7
8
9
10
11
11
12
13 | 2way ANOVA
Tabular results
Table Analyzed
Tuo-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
5
5 of total variation
0.151
70.29
7.501
4.206
SS
152.4 | B Data Set-B Y P value O.0008 < 0.0001 0.0098 0.0300 DF 4 | C
Data Set-C
Y
P value summar

*
*
* | D Data Set-D Y y Significant? Yes Yes Yes F (DFn, DFd) F (4, 28) = 0.831
 | E Data Set-E Y V
 | 1
2
3
4
5
6
7
7
8
9
10
11
12
13
14
15
16
17
18 | Zeegy ANDVA Multiple completed Multiple completed Congare each call mans with the other call mans in that row Congare each call mans with the other call Description of termines Statis multiple comparisons per family Statis multiple comparisons test Exemption-throughted Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Test details
 | A
Data Set-A
Y
1
5
5
0.05
0.05
0.0
-8.260
-8.2710
-4.438
0.03500
Mean 1 | B
Data Set-B
Y
95% CL of diff.

 | C
Data Set-C
Y
Significant?
No
Yes
Yes
No
No
No
No | Data Set-D
Y
Summary
Summary
ns
ns
ns
SE of diff. | E
Data Set-E
Y
N1 | F
Data Set-F
Y
N2
 | б | H
Data Set-H
Y
DE |
| 1
2
3
4
5
6
7
7
8
9
10
11
11
12
13
14 | 2way ANOVA
Tabular results
Table Analyzed
Teo-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time | A
Data Sel-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501
4.208
58
182.4
2085 | B
Data Set-B
Y
P value
0.0008
< 0.0001
0.0098
0.0300
DF
4 | C
Data Set-C
Y
P value summar

45.61
621.2 | D Data Set-D Y Operation y Significant? Yes Yes Yes F (DFn, DFd) F (4, 28) = 0.831 F (4, 28) = 78.00
 | E
Data Set-E
Y
P
P value
P value
P volue
P volue
 | 1
2
3
4
5
5
6
7
7
8
9
10
11
11
12
13
14
15
15
16
17
7
8
9
20 | Zeegy ANDVA Multiple comparison Multiple comparison Congare such call mass with the other soft mean in that row Number of regratives per family Apia Dearse including comparisons test Exercise-incolated - Selecting-Incolated Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 5 Rev 6 Rev 7 Rev 8 Rev 9 Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 6 Rev 7 Rev 8 Rev 9 Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 1
 | A
Data Set-A
Y
1
5
0.06
Mean Diff.
0.0
-3.280
0.03500
-4.438
0.03500
Mean 1 | B
Data Set-B
Y
55% CL of diff.
55% CL of diff.
55% CL of diff.
5437 to 5.437
-13.70 to -2.823
-15.15 to -4.273
-9.375 to 0.9990
-4.402 to 5.472
Mean 2
 | C
Data Set-C
Y
Significant?
No
No
No
No
No
No
No
No | Data Set-D
Y Summary Summary ns ss SE of diff. 2.002 | E
Data Set-E
Y | F
Data Set-F
Y
N2
N2
 | G
Data Set-0
Y
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L
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L
L
L
L | H
Data Set-H
Y
DE
DF |
| 1
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6
6
7
7
8
9
10
11
11
12
13
14
15 | 2way ANOVA
Tabular results
Table Analyzed
Two-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time
Column Factor | A
Data Sel-A
Y
Females rel 2way
Matching: Stacked
0.05
5% of total variation
6.151
70.29
7.501
4.208
SS
182.4
2008
282.5 | B
Data Set-B
Y
Data Set-B
V
D
Value
0.0008
< 0.0001
0.0008
0.0009
0.0009
0.0009
0.0009
0.0009
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0.0000
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0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.000000 | C
Data Set-C
Y
P value summar

* | D Data Set-D Y Significant? Yes Yes F (OPn, DFd) F (4, 28) = 8.031 F (4, 28) = 78.05 F (1, 7) = 12.48
 | E
Data Set-E
Y
P
P
value
P = 0.0006
P < 0.0001
P = 0.0001
 | 1
2
3
4
5
6
7
8
9
10
11
11
12
13
14
15
16
17
18
19
20
21 | Zwang ANDVA
Multiple comparisons Compare such call mass with the other cell mean in that row
Number of tamina
Agia Starks number comparisons are family
Agia Starks number comparisons are family
Res 1 Starks number comparisons test Exercise incodered - Selectracy-Incodered
Res 1 Res 4 Res 5 Test details Exercise incodered - Selectracy-Incodered
Res 1 Res 4 Res 5 Res 1 Res 1 Res 1 Res 1 Res 2 Res 2
 | A
Data Set-A
Y
1
5
0.05
Mean Diff.
0.0
-3.250
-3.710
-4.438
0.03500
0.03500
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Y
95% C1 of aff.

 | C
Data Set-C
Y
Significant?
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Data Set-H
Y
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255
35 |
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16 | 2way ANDVA
Tabular results
Table Analyzed
Tro-way RM ANDVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANDVA table
Interaction
Time
Column Factor
Subjects (matching) | A
Data Set-A
Y
Females rel 2way
Matching: Stacked
0.05
5 of total variation
0.151
70.29
7.501
4.208
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5
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5
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5 | B Data Set-8 Y Data Set-8 Y Data Set-8 Y O Data Set-8 Y O Data Set-8 Y O Data Set-8 O O D D D D D D D D D T 1 7 | C
Data Set-C
Y
P value summar

* | D Data Set-D Y Significant? Yes Yes Yes Yes F (DFn, DFd) F (4, 28) = 8.831 F (4, 28) = 78.06 F (1, 7) = 12.48 F (7, 28) = 2.871
 | E
Data Set-E
Y
P value
P = 0.0008
P < 0.0001
P = 0.0096
P = 0.0096
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1
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25 | Zeego ANDVA Midgle comparison Congare such call man with the other call man in that now Congare such call mans with the other call mans in that now Starts of comparisons per family Address Starts multiple comparisons test Exercise Anounted - Sedeminy-Insculated Res 2 Res 3 Res 4 Res 5 Test details Exercise-Insculated - Sedeminy-Insculated Res 1 Res 2 Res 3 Res 4 Res 5 Test details Exercise-Insculated - Sedeminy-Insculated Res 1 Res 2 Res 1 Res 2 Res 2 Res 3
 | A
Data Set-A
Y
5
0.05
Mean Diff.
0.0
-8.280
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Data Sel-B
Y
95% CI of aff.

 | C Data Set-C Y Significant? Significant? No No No No No Mean Diff. | Data Set-D
Y Summary Summary Sset of diff. SE of diff. 2.002 2.002 2.002 | E
Data Set-E
Y
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N1
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4 | F Data Set-F Y N2 5 5 5 5
 | G
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Y
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35 |
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16
17 | 2way ANOVA
Tabular results
Table Analyzed
Teo-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time
Column Factor
Subjects (matching)
Residual | A
Data Sel-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501
4.208
58
182.4
2085
222.5
124.8
186.9 | B Vata Set-8 Y Image: Set-8 | C
Data Set-C
Y
P value summar

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* | D Data Set-D Y Operation y Significant? Yes Yes Yes F (DFn, DFd) F (4, 28) = 0.831 F (4, 28) = 78.00 F (1, 7) = 12.48 F (7, 28) = 2.871
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Data Set-E
Y
P value
P = 0.0006
P < 0.0001
P = 0.0096
P = 0.0300
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24 | Zenagy ANDVA
Multiple comparison Congare such call mean with the stiles of
transfer of transfer
Apple Number of transfer
Compared comparisons per family
Apple Data's multiple comparisons test Exercise-Incolated - Selectracy-Incolated
Rev 1 Rev 2 Rev 1 Rev 3 Rev 4 Rev 5 Selectracy-Incolated
Rev 1 Rev 5 Rev 6 Rev 5 Rev 1 Rev 1 Rev 2 Rev 5 Rev 1 Rev 1 Rev 1 Rev 1 Rev 1 Rev 2 Rev 1 Rev 2 Rev 4 Rev 2 Rev 4 Rev 1 Rev 3 Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 3 Rev 4 Rev 4 Rev 4 Rev 3 Rev 4 Rev 4 Rev 4 Rev 4 Rev 4 Rev 4 Rev 4
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Data Set-A
Y
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0.05
Mean Diff.
0.0
-3.280
-3.280
-3.280
-3.2710
-4.438
0.03500
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0.03500
-3.250
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- | B
Data Sel-B
Y
Selfs CL of alff.
56% CL of alff.
54% CL of alff.
54% SL of 54%
54% SL of 54% SL of 54%
54% SL of 54% SL of 54%
54% SL of 54% | C
Data Set-C
Y
Significant?
Significant?
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 | Data Set-D
Y Summary Summary Rs rs SE of diff. 2.002 2.002 2.002 2.002 | E
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17 | 2way ANDVA
Tabular results
Tabular results
Table Analyzed
Tao-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time
Column Factor
Subjects (matching)
Residual
2way ANDVA | A
Data Sel-A
Y
Females rel 2way
Matching: Stacked
0.05
0.05
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0.0 | B Data Set-5 V V V V V V V V V V V V V V V V V V V | C
Data Set-C
Y
P value summar

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* | D Data Set-D Y Significant? Yes Yes Yes F (0.Pn, DFd) F (4, 28) = 8.831 F (4, 28) = 78.06 F (1, 7) = 12.48 F (7, 28) = 2.671
 | E
Data Set-E
Y
P value
P = 0.0006
P = 0.0096
P = 0.0300
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24 | Zwang ANDVA
Multiple comparisons Compare such call mass with the other cell mean in that row
Number of tamina
Number of tamina
Starks number comparisons are taminy
Agia Starks number comparisons are taminy
Agia Starks number comparisons test Exercise-Incodured - Selectracy-Incodured
Res 1 Res 1 Res 3 Res 4 Res 4 Res 5 Test details Exercise-Incodured - Selectracy-Incodured Res 4 Res 5 Res 1 Res 4 Res 5 Res 4 Res 5 Res 1 Res 4 Res 5 Res 1 Res 2 Res 3 Res 4 Res 5 Res 4 Res 5 Res 4 Res 5 Res 4 Res 5 Res 5 Res 6 Res 7 Res 7 Res 8 Res 9 Res 9 Res 9 <t< td=""><td>A
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Y
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0.05
Mean Diff.
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0.0</td><td>B
Data Set-8
Y
95% CI of diff.
</td><td>C
Data Set-C
Y
Significant?
No
No
No
No
No
No
No
No
No
No
Significant?
Ves
No
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C</td><td>Data Set-D
Y Summary Summary Summary Summary 2.002 2.</td><td>Е
Дата Sat-E
Y
N1
N1
4
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4
E</td><td>F Data Set-F Y Image: Set of the s</td><td>G
Data Ser-O
Y</td><td>H
Data Set-H
Y
DF
DF
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 | A
Drata Ser-A
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Mean Diff.
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Data Set-8
Y
95% CI of diff.
 | C
Data Set-C
Y
Significant?
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 | Data Set-D
Y Summary Summary Summary Summary 2.002 2. | Е
Дата Sat-E
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E | F Data Set-F Y Image: Set of the s | G
Data Ser-O
Y | H
Data Set-H
Y
DF
DF
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14
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16
17 | 2way ANOVA
Tabular results
Table Analyzed
Tro-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time
Column Factor
Subjects (matching)
Residual
2way ANOVA
Tabular results | A
Data Set-A
Y
Females nel 2way
Matching: Stacked
0.05
5. of total variation
6. 151
7. 29
7. 501
4. 208
55
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2085
222. 5
124. 8
195. 9
A
Data Set-A | B Data Set-B Y Q Y Q | C Data Set-C Y V V V V V V V V V V V V V V V V V V | D Data Set-D Y Significant? Yes Yes Yes Yes F (DFn, DFd) F (1, 28) = 78.00 F (7, 28) = 2.871 P D D D D D D D
 | E
Data Set-E
Y
P value
P = 0.0006
P = 0.0001
P = 0.0000
P = 0.0000
P = 0.0000
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Data Set-E
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24 | 20erge ANDVA
Maliple comparisons Maliple comparisons Congran each call mans with the other of lamba
Number of lamba Starks multiple comparisons per family
Apies Starks multiple comparisons test Exercise-Indoced - Sociemay-Indoced
Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 2 Rev 3 Rev 4 Rev 5 Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 5 Rev 6 Rev 7 Rev 8 Rev 9 Rev 1 Rev 5 Rev 6 Rev 7 Rev 8 Rev 9 Rev 1 Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Rev 6 Rev 1 Rev 1 Rev 1 Reverse Reverse Reverse Reverse <td>A
Tarta Sar-A
Tarta Sar-A
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Data Ser-G
Y
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T | B Data Set-B Y 56% CL of diff. 56% CL of diff. 5437 to 5.437 13.70 to 5.437 13.70 to 5.423 -6.437 to 5.437 -6.437 to 5.437 -6.437 to 5.437 -8.375 to 1.422 -8.375 to 1.422 -8.472 -8.472 -8.472 -8.472 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.402 -9.403 -9.404 -9.404 -9.405 -9.405 -9.404 -9.404 -9.404 -9.404 -9.404 -9.404 -9.404 -9.404 </td <td>C Data Set-C Y Significant? Significant? No No No No No No No No 0.0 4.350 0.0300 C Data Set-C Data Set-C</td> <td>D Data Set-D Y Summary ns *** ns *** SE of diff. 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002</td> <td>E Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y</td> <td>F T Data Stef Y Y</td> <td>G
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 | C Data Set-C Y Significant? Significant? No No No No No No No No 0.0 4.350 0.0300 C Data Set-C Data Set-C | D Data Set-D Y Summary ns *** ns *** SE of diff. 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 | E Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | F T Data Stef Y Y
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17 | 2way ANOVA
Tabular results
Table Analyzed
Teo-way RM ANOVA
Alpha
Source of Variation
Interaction
Time
Column Factor
Subjects (matching)
ANOVA table
Interaction
Time
Column Factor
Subjects (matching)
Residual
2way ANOVA
Tabular results | A
Dats Set-A
Y
Females rel 2way
Matching: Stacked
0.05
% of total variation
6.151
70.29
7.501
4.206
53
182.4
2005
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124.8
186.9
A
Dats Set-A
Y | B Data Set-B Y Q P Q | C
Data Set-C
Y
P value summar

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* | D
Data Set-D
Y
Significant?
Yes
Yes
Yes
Yes
F (DPn, DPd)
F (4, 28) = 0.831
F (4, 28) = 0.831
F (7, 28) | E
Data Set-E
Y
P value
P = 0.0006
P = 0.0096
P = 0.0096
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D = 0.0096
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24 | Anapp ANDVA Multiple comparisons Compare such all mans with the other cell mean in that rev Number of tamilies Number of tamilies Sank's multiple comparisons test Exercise incoulants - Seteritary-Incoulant Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Zearge Andvalant - Seteritary-Incoulant Rev 1 Rev 1 Rev 1 Rev 2 Rev 3 Rev 4 Rev 5 Zearge ANDVA Multiple comparisons Rev 5 Zearge ANDVA Multiple comparisons Zearge ANDVA Multiple comparisons Zearge ANDVA Rev 5 Zearge ANDVA Rev 6 Zearge ANDVA Rev 6 Zearge ANDVA Rev 7 Zearge ANDVA Rev 8 Zearge ANDVA Rev 8 Zearge ANDVA Rev 9 | A
Data Ser.A.
Y
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6.06
Maan Drfr.
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0.0
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3.200
0.0
3.200
0.0
5.770
0.4.430
0.0550
0.0
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0.0
12.300
A.
Hann H.
Hann H.
Hann H.
Hann H.
Hann H.
Hann H.
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IPGTT: 2-WAY REPEATED MEASURES ANOVA & SIDAK CORRECTION *POST HOC – Sex Differences*

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4	GFEx2	1.8306	3.724231	13.93785	6.391653	9.005016	9.834793	54.32961	102.0771	1.793351	3.64845	13.6542	6.261595	8.821781	10.43359	57.63753		744.28	520.91	1187.282	1150.44	1656.798	1734.328	3244.476	
6	GFEx4	2.118294	8.85033	18.46611	7.244097	36.04878	5.996728	42.728	102.4885	1.744136	7.287081	4.88303	5.964559	29.68142	4.937515	35.18088		409.71	615.15	951.0389	1036.605	1561.244	1805.35	2938.83	
8	GFEx6	2.24464	5.971851	9.706154 8.315998	9.030087	32.13021	1.5354	51.45944	121.3893	1.849125	4.919585	8.15098	8.850902	31.49265	1.264856	50.43832		463.18	962.38	689.7443	907.135	1925.182	1846.281	2540.645	
9	GFEx7 GFEx8	4.776668	1.537933 4.093862	8.641128 5.847803	10.22246	28.38935	4.20365	49.49254	84.00467	4.027537	4.873374	7.28592 6.96128	8.619258 9.865568	23.93701	13.10298	41.73056		601.48 306.48	507.6 948.8	856.3544 879.0271	1627.29	905.8	1485.266 2169.732	2980.868 3408.57	
11 12				AVER	AGE					2.288168	3.176681	9.49493	9 6.824393	20.34608	6.421424	51.44832		510.1825	760.5488	869.8018	1231.71	1595.9	1770.229	3014.051	
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 | | 1.3924 | 186.7277333 | 7.45684626
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 | | 1.896266667 | 164.6618667
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 | | 1.3236 | 205.6817333
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CAPILLARIZATION MEASURES: RAW DATA

CAPILLARIZATION DATA: t-tests

1		t test	_		1	t test	
1							
1	Table A	nalyzed	CF	i TA - Merged	1	Table Analyzed	CFPE TA - Merged
2					2		, i i i i i i i i i i i i i i i i i i i
3	Column	n B	Se	dentary Inoculated	3	Column B	Sedentary Inoculated
4	VS.		vs		4	V.5.	VS.
5	Column	A	Ex	ercise Inoculated	5	Column A	Exercise Inoculated
6			-		6		
7	Unpaire	ed t test			7	Unpaired t test	
8	P val	ue	0.1	845	8	P value	0.3999
9	P val	ue summary	ns		9	P value summary	05
10	Signif	icantly different? (P < 0.05)	No		10	Significantly different? ($P \le 0.05$)	No
11	One-	or two-tailed P value?	Tw	o-tailed	11	One- or two-tailed P value?	Two-tailed
12	t df		t=1	358 df=30	12	t df	t=0.8543 df=29
13					13		1-0.0010 01-20
14	How bit	is the difference?	-		14	How his is the difference?	
15	Mann	+ SEM of column A	1.0	90 ± 0 1402 N=18	15	Mann + SEM of column A	8 021 ± 1 204 N=18
16	Mean	I SEM of column A	1.0	150 ± 0.1402 N=10	16	Mean ± SEM of column A	4.827 + 0.0521 N=15
17	mean	I SEM OF COLUMN B	1.4	19 ± 0.00052 N=10	17	Difference between means	4.027 ± 0.3521 N=15
40	Diffe	rence between means	-0.,	2108 ± 0.1552	10	Difference between means	-1.350 ± 1.033
10	95% 0	confidence interval	-0.3	52/8 to 0.1062	19	95% confidence interval	-4.734 to 1.344
13	R squ	lare	0.0	5/93	20	R square	0.02400
20					20		
21	F test t	to compare variances			21	F test to compare variances	
22	F,DFr	n, Dfd	4.4	45, 15, 15	22	F,DFn, Dtd	2.000, 15, 14
23	P val	ue	0.0	064	23	P value	0.2029
24	P val	ue summary			24	P value summary	ns
25	Signif	icantly different? (P < 0.05)	Ye	s	25	Significantly different? (P < 0.05)	No
1		t test			10	t test	
			_			1	
	4	Table Applyand	-	CEi Sal Marrad		Table Apple and	OFFE Col. Manual
	2	Table Analyzed	_	CFI 30I - Mergeu	2	Table Analyzed	CFPE Sol - Merged
	3	Column B	-	Sedentary Inoculated	3	Column B	Sedentary Incoulated
	4	VS.		vs.	4	VS.	VS.
	5	Column A		Exercise Inoculated	5	Column A	Exercise Inoculated
	6				6		
1	7	Unpaired t test			7	Unpaired t test	
1	8	P value		0.3874	8	P value	0.1048
	9	P value summary		ns	9	P value summary	ns
	10	Significantly different? (P < 0	.05)	No	10	Significantly different? (P < 0.05)	No
	11	One- or two-tailed P value?	_	Two-tailed	11	One- or two-tailed P value?	Two-tailed
	12	t, df	_	t=0.9168 df=27	12	t, df	t=1.679 df=27
	14	How his is the difference?	-	-	13	Hard Market Market and A	
1	15	Mean + SEM of column A	-	1 554 + 0 07457 N=15	14	How big is the difference?	11 24 + 0 5700 N=15
1	16	Mean ± SEM of column B	-	1.456 ± 0.07577 N=14	16	Mean + SEM of column B	9 791 + 0 6558 N=14
1	17	Difference between means		-0.09752 ± 0.1084	17	Difference between means	-1.453 ± 0.8656
1	18	95% confidence interval		-0.3158 to 0.1207	18	95% confidence interval	-3.229 to 0.3231
1	19	R square		0.03019	19	R square	0.09449
2	20				20		
2	21	F test to compare variances			21	F test to compare variances	
	22	F,DFn, Dfd		1.038, 14, 13	22	F,DFn, Dfd	1.235, 13, 14
	23	P value		0.9521	23	P value	0.6980
	24	P value summary		ns	24	P value summary	ns
	23	Significantly different? (P < 0	.05)	No	25	Significantly different? (P < 0.05)	No



CAPILLARIZATION MEASURES: t-tests – Sex Differences

GraphPad Prism - [CFI CFPE.pzfx:Unpaired t test of CFPE TA - Die Bie Bit View nset Change Arrange Window Prism Die Diebest Undo Clabbase Prism Die Diebest Diebest Clabbase Prism Die Diebest Diebest Clabbase Diebest Diebest Diebest Clabbase Diebest Diebest	Mergeo Help Analysis	d F)	Verte Va Ω Q. ··· T T α A A B / J	Text ∠ ײ ×₂ װוֹ װוֹ	Export	nint Send Li Garesson Garesson Jackson Jackso	Help	M			- a -	ж 8 ж
CFPE Sol Sex Diff	10	ttest										- ^
Project info 1 Results Dupaired t test of CFi TA - Forting	1	Table Analyzed	CFPE TA - Merged F									ŧ
Unpaired t test of CFi TA - Aaron	2	Column B	Sedentary Inoculated									F
Unpaired t test of CFPE TA - Fortino Unpaired t test of CFPE TA - Aaron Unpaired t test of CFPE TA - Merged	4	vs. Column A	vs. Exercise Inoculated									E
Unpaired t test of CFi Sol - Aaron Unpaired t test of CFi Sol - Fortino	6 7	Unpaired t test										
Unpaired t test of CFPE Sol - Fortino Unpaired t test of CFPE Sol - Aaron	8	P value P value summary	0.5309 ns									
Unpaired t test of CFPE Sol - Merged Unpaired t test of CF TA - Merged M Unpaired t test of CF TA - Merged M	10	Significantly different? (P < 0.05) One- or two-tailed P value?	No Two-tailed									=
Unpaired t test of CFPE TA - Merged M Unpaired t test of CFPE TA - Merged F	12	t, dr	t=0.6406 df=16									ŧ.
Unpaired t test of CFi Sol - Merged M Unpaired t test of CFi Sol - Merged M Unpaired t test of CFE Sol - Merged M	15	Mean ± SEM of column A	9.135 ± 1.173 N=8									ŧ
	17	Difference between means	-0.7410 ± 1.157									ŧ.
Col. stats of CFPE TA - Merged Col. stats of CFI Sol - Merged Sol, stats of CFI Sol - Merged Merged	19 20	R square	0.02500									ŧ.
Col. stats of CFi TA - Merged M Col. stats of CFi TA - Merged F	21 22	F test to compare variances F,DFn, Dfd	5.499, 7, 9									F
Col. stats of CFPE TA - Merged M Col. stats of CFPE TA - Merged F Col. stats of CFI Sol - Merged M	23 24	P value P value summary	0.0214									F
Col. stats of CFi Sol - Merged F	25 26	Significantly different? (P < 0.05)	Yes									F
Col. stats of CFPE Sol - Merged F Graphs Layouts	27 28											E
Layout 1 v	29 <		1									× ۲
GraphPad Prism - [CFI CFPE.pzfx:Unpaired t test of CFi Sol - N	Aerged	M]	- Merged P V Tabular re	isuta 👻						9	- 0	×
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Project info 1	10	t test										ΞÎ
Results	1	Table Analyzed	CFi Sol - Merged M									E
Unpaired t test of CFi TA - Aaron Unpaired t test of CFi TA - Merged	2	Column B	Sedentary Inoculated									+
Unpaired t test of CFPE TA - Fortino Unpaired t test of CFPE TA - Aaron	4	vs. Column A	vs. Exercise Inoculated									F
Unpaired t test of CFPE TA - Merged Unpaired t test of CFi Sol - Aaron Unpaired t test of CFi Sol - Sotion	6	Una size d t to st										ŧ.
Unpaired t test of CFI Sol - Portino	8	P value	0.2865									
Unpaired t test of CFPE Sol - Aaron Unpaired t test of CFPE Sol - Merged	9 10	P value summary Significantly different? (P < 0.05)	ns No								<u> </u>	
Unpaired t test of CFi TA - Merged M Unpaired t test of CFi TA - Merged F	11 12	One- or two-tailed P value?	Two-tailed									F
	13											ŧ.
Unpaired t test of CFi Sol - Merged M Unpaired t test of CFi Sol - Merged F	15	Mean ± SEM of column A	1.591 ± 0.1319 N=8									E
Unpaired t test of CFPE Sol - Merged M Unpaired t test of CFPE Sol - Merged F	16 17	Mean ± SEM of column B Difference between means	1.387 ± 0.1139 N=6 -0.2031 ± 0.1821									+
	18	95% confidence interval	-0.5997 to 0.1936									F
Col. stats of CFI Sol - Merged	20	Tr aquare	0.00000									ŧ.
Col. stats of CFI TA - Merged F	21	F test to compare variances F,DFn, Dfd	1.789, 7, 5									±.
Col. stats of CFPE TA - Merged F Col. stats of CFPE TA - Merged F Col. stats of CFI Sol - Merged M	23 24	P value P value summary	0.5405 ns									F
Col. stats of CFi Sol - Merged F	25	Significantly different? (P < 0.05)	No									F
Col. stats of CFPE Sol - Merged F	27											±.
Layouts	28											- ~
	•	Unpaired t test of CFi Sol - 1	Merged M 🗸 Tabular re	rouits 🖛						Q		•
B Graphbar Pism - (CFI CFPE prf.clmpaired t test of CFI Sol - © Eile Edit Yew Inset Change Arrange Window Pinn Pinn - CFI CFI Sol Set Diff - B 2 2 2 - CFI Sol Set Diff	Merged Help Analysis Analysis Analysis	F]		Text ↓ ײ ×₂ װוֹֹז װוֹ	Export	Print Send L Send L Print Send L Send L C	+ etp • PR	M			- σ -	× 6 ×
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Unpaired t test of CFi TA - Aaron	3	Column B	Sedentary Inoculated									
Unpaired t test of CFPE TA - Fortino Unpaired t test of CFPE TA - Aaron	4	VS.	VS.									F
Unpaired t test of CFPE TA - Merged Unpaired t test of CFi Sol - Aaron	6		and the modulated									
	7	Unpaired t test P value	0.9764									
Unpaired t test of CFPE Sol - Fortino Unpaired t test of CFPE Sol - Aaron	9	P value summary	ns									
Unpaired t test of CFPE Sol - Merged Unpaired t test of CFi TA - Merged M	10	Significantly different? (P < 0.05) One- or two-tailed P value?	No Two-tailed									
t Unpaired t test of CFi TA - Merged F	12	t, df	t=0.03020 df=13									F
L Unpaired t test of CFPE TA - Merged F	13	How big is the difference?										+
Unpaired t test of CFI Sol - Merged M	15	Mean ± SEM of column A	1.511 ± 0.06356 N=7									F
Unpaired t test of CFPE Sol - Merged M	17	Difference between means	-0.003819 ± 0.1264									E
Col. stats of CFI TA - Merged	18	95% confidence interval	-0.2770 to 0.2693									F
Col. stats of CFI Sol - Merged	20	n aquare	1.0176-005									E
Col. stats of CFi TA - Merged M Col. stats of CFi TA - Merged F	21 22	F test to compare variances F.DFn. Dfd	3.063. 7. 6									+
Col. stats of CFPE TA - Merged M Col. stats of CFPE TA - Merged F	23	P value	0.1938									E
Col. stats of CFi Sol - Merged M	24 25	P value summary Significantly different? (P < 0.05)	ns No									+
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Graphs	27											\vdash
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Project info 1											
Project into I	1 4	r									
Unnaired t test of CEi TA - Fortino	1	Table Analyzed	CFPE Sol - Merged M								
Unpaired t test of CFi TA - Aaron	2	,									
Uppaired t test of CFi TA - Merged	3	Calumn D	Codepters Incovieted								
Unpaired t test of CFPE TA - Fortino		Column B	Sedentary Inoculated								
Uppaired t test of CEPE TA - Aaron	4	VS.	VS.								
Uppaired t test of CEPE TA - Merged	5	Column A	Exercise Inoculated								
Uppaired t test of CFi Sol - Aaron	6										
Unpaired t test of CFi Sol - Fortino	7	Lippaired t test									
Unpaired t test of CFi Sol - Merged		Dustus	0.0000								
Unpaired t test of CEPE Sol - Fortino	•	P value	0.0603								
Unpaired t test of CFPE Sol - Aaron	9	P value summary	ns								
Unpaired t test of CFPE Sol - Merged	10	Significantly different? (P < 0.05)	No								
Unpaired t test of CFi TA - Merged M	11	One- or two-tailed P value?	Two-tailed								
Unpaired t test of CFi TA - Merged F	12	t df	t=2.074.df=12								
Unpaired t test of CFPE TA - Merged M	42	t, ui	1-2.014 01-12								
Unpaired t test of CFPE TA - Merged F	13										
Unpaired t test of CFi Sol - Merged M	14	How big is the difference?									
Unpaired t test of CFi Sol - Merged F	15	Mean ± SEM of column A	11.85 ± 0.9884 N=8								
Unpaired t test of CFPE Sol - Merged M	16	Mean ± SEM of column B	8.660 ± 1.194 N=6								
Unpaired t test of CFPE Sol - Merged F	17	Difference between means	-3.192 ± 1.539					1			
Col. stats of CFi TA - Merged	18	95% confidence interval	6 545 to 0 1613					1			
Col. stats of CFPE TA - Merged	10	D annual	0.040 10 0.1010					-	1		1
Col. stats of CFi Sol - Merged	19	R square	0.2639						-	-	-
Col. stats of CFPE Sol - Merged	20							L	L	L	
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Col. stats of CFPE TA - Merged M	23	Bushus	0.9901								
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Col. stats of CFi Sol - Merged M	24	P value summary	ns								
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And Prism - ICH CFPE pric/uppaired test of CFPE so Edit Sizew Inset Change Arrange Window File Sheet Undow Clapson Draine Clapson Draine Clapson Compared test of CFI TA - Fortino Ungaired test of CFI TA - Fortino	Analyze 1 Analyze 1 Analyze 1 4 4 5	Lurpared t test of CMPE Sol of F Interpret Change Deer Interpret Change Deer Interpret Change Deer Interpret Change Deer Interpret Deer Interpret Change D	Merged M ♥ With With T III α K K B I I CFPE Sol - Merged F Sedentary inoculated V5. Exercise inoculated	Text		Print Send	A Help methods	IM 			
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A Prism - (CFI CFPE pzfc/Unpaired t test of CFPE 50 Edit Size V Inter Change Arrange Windows Sheet Under Change Arrange Arrange Windows Sheet Arrange Arrange Arrange Arrange Arrange Sheet Arrange Arrange Arrange Arrange Arrange Sheet Arrange Arrange Arrange Arrange Sheet Arrange Arrange Sheet Arrange	Analyze	Lurgared t test of CMPE Sol of F Table Analyzed Column B Vs. Column A Unpaired t test P value P value P value	Merged M ✓ Wite Wite Mine Mine CFPE Sol - Merged F Sedentary inoculated V3. Exercise inoculated 0.9093 ns	Test ↓ x ² x ₂ m ² m ²		Trint Send	A Help control				- 0
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Ad Prism - (CFI CFPE prExtUnpaired t test of CFPE 50 Edit (See) market (Dunpaired t test of CFPE 50 Edit (See) market (Dunpaired t test of CFPE 50 Core (CFPE 50 See) Core (C	Image: Second	Lingered t test of Civer Sol Table Analyzed Column B Vis. Column A Ungained t test P value summary Significantly difference? Heat ± SEM of column A Mean ± SEM of column B Difference between means Difference between means Difference interval	Merged M ▼ Write ▼ T III CK ✓ CFFE Sol - Merged F Sedentary Inoculated 0.9093 ns No Tuo-tailed 10.55 ± 0.4132 N=7 10.64 ± 0.624 N=8 0.9092 ± 0.7768 1.588 to 1.768	Text			A Help PR				- α
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A GP- A	• •	Linearest Linearest test of CP49 50 d F Table Analyzed Column B Vs. Column A Unpaired t test P value summary Significantly different? (P < 0.05) Difference between means Difference interval R square Fiest to compare variances F. (DFn, Did P value	Write Write Write ✓ CFPE Sol - Merged F. Sedentary Inoculated Sedentary Inoculated ✓ Vs. Exercise Inoculated 0.9093 ns No Tuo-tailed 10.55 ± 0.4132 N=7 10.64 ± 0.624 N=8 0.909037 1.588 to 1.768 0.09025 ± 0.7768 -1.588 to 1.768 0.0901037 2.643, 7, 6 0.2570 ns No No	Text () () () () () () () () () () () () ()			A Hasp S. W. PR				
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MITOCHONDRIAL MEASURES: RAW DATA

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	CS - SOL CS - SOL males	7	Unpaired t test									
	CS - SOL females CS - SOL all	8	P value	0.1259								
-	BHAD - TA BHAD - TA male	10	P value summary Significantly different? (P < 0.05)	ns No								
	BHAD - TA female	11	One- or two-tailed P value?	Two-tailed								
	Cox4 - TA male female	12	t, df	t=1.628 df=14								-
	Project info 1	14	How big is the difference?									
	Results	15	Mean ± SEM of column A Mean ± SEM of column B	136.7 ± 35.72 N=8 74.25 ± 14.07 N=8							<u> </u>	
	Unpaired t test of Cox4 - TA males	17	Difference between means	-62.49 ± 38.39								_
	Unpaired t test of Cox4 - SOL	18	95% confidence interval B square	-144.8 to 19.85								
-	Unpaired t test of Cox4 - SOL males	20	Tr Square	0.1001								_
-	t] Unpaired t test of CS - TA Unpaired t test of CS - TA males	21	F test to compare variances	6 4 4 9 7 7								_
-	t) Unpaired t test of CS - TA females	23	P value	0.0251								-
	t Unpaired t test of CS - SOL males	24	P value summary Significantly differently (D = 0.05)	* Vec								
	t) Unpaired t test of GP- 30L remains	26	Significantly different? (P < 0.05)	105								
	Unpaired t test of BHAD - TA male Unpaired t test of BHAD - TA female	27										
	詞 Col. stats of Cox4 - TA 認 Col. stats of Cox4 - TA males	28										
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	Cox4 - TA females	10	t test									^
-	Cox4 - SOL	- 4										
-	Cox4 - SOL females	1	Table Analyzed	Cox4 - SOL								_
-	CS - TA	3	Column B	Sedentary-Inoculated								
	CS - TA females	4	VS.	VS. Exercise Ineculated								_
	CS - TA all CS - SOL	6	Column A	Exercise-inoculated								
-	CS - SOL males	7	Unpaired t test	0.0040								
	CS - SOL all	9	P value P value summary	0.3319 ns								
	BHAD - TA male	10	Significantly different? (P < 0.05)	No								
-	BHAD - TA female BHAD - TA all	11 12	One- or two-tailed P value? t. df	Two-tailed t=1.005 df=14								
	Cox4 - TA male female	13										_
I	Project info 1 Results	14	How big is the difference? Mean + SEM of column A	287.3 + 37.64 N=8								
	Unpaired t test of Cox4 - TA	16	Mean ± SEM of column B	341.4 ± 38.47 N=8								_
-	Unpaired t test of Cox4 - TA males Unpaired t test of Cox4 - TA females	17	Difference between means	54.10 ± 53.82								
-	t] Unpaired t test of Cox4 - SOL Unpaired t test of Cox4 - SOL males	19	R square	0.06732								_
	Unpaired t test of Cox4 - SOL females Unpaired t test of CS - TA	20	E test to compare variances									
-	Unpaired t test of CS - TA males	22	F,DFn, Dfd	1.044, 7, 7								
-	Unpaired t test of CS - SOL	23	P value	0.9558								_
-	t Unpaired t test of CS - SOL males	25	Significantly different? (P < 0.05)	No								
	t Unpaired t test of BHAD - TA Unpaired t test of BHAD - TA male	26										_
-	t Unpaired t test of BHAD - TA female	28										-
-	Col. stats of Cox4 - TA males	29 <								1		× ~
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-	CS - TA males CS - TA females	4	VS.	vs.								
	CS - TA all CS - SOL	6	Column A	Exercise-Inoculated								
ΗF	CS - SOL males	7	Unpaired t test	0.0004								
	CS - SOL all	8	P value P value summary	0.2321 ns								
	BHAD - TA male	10	Significantly different? (P < 0.05)	No								
	BHAD - TA female BHAD - TA all	12	t, df	t=1.249 df=14								
- 1	Lox4 - TA male female	13	How big in the diff									
- 1	Project info 1 Results	15	Mean ± SEM of column A	339.9 ± 18.51 N=8								-
ΠĒ	t) Unpaired t test of Cox4 - TA t) Unpaired t test of Cox4 - TA males	16	Mean ± SEM of column B	310.9 ± 14.06 N=8								_
II E	t) Unpaired t test of Cox4 - TA females	18	95% confidence interval	-78.91 to 20.83								
	Unpaired t test of Cox4 - SOL males	19	R square	0.1003								-
	Unpaired t test of Cox4 - SOL females	20	F test to compare variances									
	Unpaired t test of CS - TA males Unpaired t test of CS - TA females	22	F,DFn, Dfd	1.734, 7, 7								
	t] Unpaired t test of CS - SOL Unpaired t test of CS - SOL males	23	P value summary	0.4650 ns								-
	t) Unpaired t test of CS - SOL females t) Unpaired t test of BHAD - TA	25	Significantly different? (P < 0.05)	No								
II F	t) Unpaired t test of BHAD - TA male	20										
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	Big Con. stats of Cox4 - TA males 剤 Col. stats of Cox4 - TA females イ	< 29		1								>
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MITOCHONDRIAL MEASURES: t-tests





MITOCHONDRIAL MEASURES: t-tests - Sex Differences

GraphPad Prism - [CS and COXIV and BHAD.pzfx:Unpaire Elie Edit View Insert Change Arrange Windt Prism File Sheet Undo Clipboard	ed t test of CS - TA males] low <u>Help</u> Analysis Interpret Change Draw	- σ × - σ × - σ ×
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Cox4 - TA females	10 t test	
Cox4 - SOL males	Table Analyzed	CS - TA males
CS - TA CS - TA	Column B	Sedentary-Inoculated
CS - TA females	Golumn A	Vs. Exercise-Inoculated
CS - SOL males	7 Unpaired t test 8 P value	0.5203
CS - SOL all BHAD - TA BHAD - TA	9 P value summary 10 Significantly different? (P < 0.05)	ns No
BHAD - TA female BHAD - TA all	11 One- or two-tailed P value? 12 t, df	Two-tailed
Cox4 - TA male female	13 14 How big is the difference?	
Results Unpaired t test of Cox4 - TA	15 Mean ± SEM of column A 16 Mean ± SEM of column B	354.6 ± 33.52 N=4 2000 2000 2000 2000 2000 2000 2000 20
Unpaired t test of Cox4 - IA males Unpaired t test of Cox4 - TA females Unpaired t test of Cox4 - SOL	17 Difference between means 18 95% confidence interval	-29.65 ± 43.89
Unpaired t test of Cox4 - SOL males Unpaired t test of Cox4 - SOL females	19 R square 20	0.08366
Unpaired t test of CS - TA males Unpaired t test of CS - TA males Unpaired t test of CS - TA females	21 F test to compare variances 22 F,DFn, Dfd	2.971, 3, 2
Unpaired t test of CS - SOL Unpaired t test of CS - SOL males	23 P value 24 P value summary 25 O value summary	0.5237
Unpaired t test of BHAD - TA	26 Significantiy different 7 (P < 0.05)	
Unpaired t test of BHAD - TA female Col. stats of Cox4 - TA Cox4 - TA	28	
Coll states of Covid - TA finales	C C C C C C C C C C C C C C C C C C C	males V Tabular results V Q 0
GraphPad Prism - [CS and COXIV and BHAD.pzfx:Unpaired	ed t test of CS - TA females)	- a x
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Cox4 - SOL males	1 Table Analyzed	CS - TA females
Cox4 - SOL all	2 3 Column B	Sedentary-Inoculated
CS - TA males	4 vs. 5 Column A	vs.
CS - SOL CS - SOL CS - SOL males	6 7 Unpaired t test	
CS - SOL females	8 P value 9 P value summary	0.4213
BHAD - TA BHAD - TA male BHAD - TA female	10 Significantly different? (P < 0.05) 11 One- or two-tailed P value?	No
BHAD - TA all Cox4 - TA male female	12 t, df 13	t=0.8541 df=7
Info Project info 1 Project info 1	14 How big is the difference? 15 Mean + SEM of column A	325 3 + 18 23 N=4
Lip Results Uppaired t test of Cox4 - TA Uppaired t test of Cox4 - TA	16 Mean ± SEM of column B 17 Difference between means	302.5 ± 18.84 N=5
Unpaired t test of Cox4 - TA females Unpaired t test of Cox4 - SOL	18 95% confidence interval	-22.00 120.10
Unpaired t test of Cox4 - SOL males Unpaired t test of Cox4 - SOL females Unpaired t test of Cox4 - SOL females	20	
Unpaired t test of CS - TA males	22 F,DFn, Dfd	1.335,4,3
Unpaired t test of CS - SOL Unpaired t test of CS - SOL males	23 P value 24 P value summary	0.8461 ns
Unpaired t test of CS - SOL females	25 Significantly different? (P < 0.05) 26	No
Unpaired t test of BHAD - TA female Col. stats of Cox4 - TA	27 28	
Col. stats of Cox4 - TA males	29 <	
Image: I	D D	females V Tabular results V O O O O O O O O O O O O O O O O O O
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Cox4 - TA females		
Cox4 - TA all	t test	
Cox4 - SOL males	Table Analyzed	CS - SOL males
	2 3 Column B	Sedentary-Inoculated
CS - TA males	4 vs.	VS. Image: Control of the
	Column A	Exercise-inoculated
CS - SOL males	7 Unpaired t test	
CS - SOL all	P value P value P value summary	ns
BHAD - TA male	10 Significantly different? (P < 0.05) 11 Ope- or two-tailed P value?	No Two tailed
BHAD - TA all	12 t, df	t=1.380 df=5
Project info	14 How big is the difference?	
Besults	15 Mean ± SEM of column A	421.3 ± 62.63 N=4
Unpaired t test of Cox4 - TA males	17 Difference between means	142.1 ± 103.0
Unpaired t test of Cov4 - SOL	18 95% confidence interval 19 R square	-122.7 to 406.9
Unpaired t test of Cox4 - SOL mates	20	
Unpaired t test of CS - TA males	22 F,DFn, Dfd	1.398, 2, 3
Unpaired t test of CS - TA temates	23 P value	0.7447
Unpaired t test of CS = SOL finales Unpaired t test of CS = SOL finales	25 Significantly different? (P < 0.05)	No
Unpaired t test of BHAD - TA male	26	
Col. stats of Cox4 - TA	28	
Col. stats of Cox4 - TA females		
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Cox4 - TA females	🛛 ttest						î
Cox4 - SOL males	Table Analyzed	CS - SOL females					
CS - TA CS - TA males	3 Column B 4 vs.	Sedentary-Inoculated					-
CS - TA termates	5 Column A 6	Exercise-Inoculated					
	7 Unpaired t test 8 P value	0.5621					=
BHAD - TA BHAD - TA male BHAD - TA female	Significantly different? (P < 0.05) One- or two-tailed P value?	No Two_tailed					-
BHAD - TA all Cox4 - TA male female	2 t, df 3	t=0.6085 df=7					-
Project info 1 Results	4 How big is the difference? 5 Mean ± SEM of column A	422.8 ± 43.48 N=4					-
Unpaired t test of Cox4 - TA Unpaired t test of Cox4 - TA males Unpaired t test of Cox4 - TA females	Mean ± SEM of column B Difference between means 95% confidence interval	475.2 ± 68.19 N=5 52.47 ± 86.23					=
Lyppaired t test of Cox4 - SOL Uppaired t test of Cox4 - SOL males Uppaired t test of Cox4 - SOL females 2	IP R square	0.05024					-
Unpaired t test of CS - TA Uppaired t test of CS - TA males Uppaired t test of CS - TA females Uppaired t test of CS - TA females	F test to compare variances F,DFn, Dfd	3.075, 4, 3					-
Unpaired t test of CS - SOL Uppaired t test of CS - SOL males	P value P value summary Similia anth differentia (D < 0.05)	0.3831 ns					=
Unpaired t test of BHAD - TA Unpaired t test of BHAD - TA male	significantly difference (F < 0.05)						#
Col. stats of Cox4 - TA males	28 29						‡ .
I Col. stats of Cord - TA females	Unpaired t test of CS - SOL	females 🗸 Tabular res	uito 👻			Q -	•
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Cox4 - TA females			~ ~ ~				^
Cox4 - TA all Cox4 - SOL	4						
Cox4 - SOL females	Table Analyzed	BHAD - TA male					
CS - TA	Column B vs.	Sedentary-Inoculated vs.					—
CS - TA females	5 Column A 6	Exercise-Inoculated					_
CS - SOL males	7 Unpaired t test	0.9953					_
CS - SOL all	P value summary Signific anthu different2 (B < 0.05)	ns					_
BHAD - TA male	One- or two-tailed P value?	Two-tailed					_
Cox4 - TA male female	12 t, or 13	t=0.01932 dt=5					_
Project info 1 Results	How big is the difference? Mean ± SEM of column A	73.88 ± 4.401 N=4					_
Uppaired t test of Cox4 - TA Uppaired t test of Cox4 - TA males Uppaired t test of Cox4 - TA females	Mean ± SEM of column B Difference between means	74.03 ± 6.642 N=3 0.1472 ± 7.616					_
Unpaired t test of Cox4 - SOL Unpaired t test of Cox4 - SOL Unpaired t test of Cox4 - SOL males	95% confidence interval R square	-19.43 to 19.72 7.467e-005					_
Unpaired t test of Cox4 - SOL females Unpaired t test of CS - TA	Point F test to compare variances						_
Unpaired t test of CS - TA females Upaired t test of CS - SOL	22 F,DFn, Dfd 23 P value	1.708, 2, 3 0.6395					_
-t Unpaired t test of CS - SOL males Unpaired t test of CS - SOL females	P value summary Significantly different? (P < 0.05)	ns No					_
t Unpaired t test of BHAD - TA male	27						_
Col. stats of Cox4 - TA Col. stats of Cox4 - TA Col. stats of Cox4 - TA males	28			<u> </u>			+-
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Cox4 - SOL males	Table Analyzed	BHAD - TA female					
Cox4 - SOL all	2 3 Column B	Sedentary-Inoculated					-
CS - TA males	4 VS. 5 Column A	VS.					_
CS - TA all	6	Liker cise-inoculated					_
CS - SOL males	Unpaired t test P value	0.4478					
BHAD - TA	P value summary Significantly different? (P < 0.05)	ns No					
BHAD - TA female	1 One- or two-tailed P value?	Two-tailed					_
Cox4 - TA male female	13	1-0.0041 ui=1					_
Project info 1	How big is the difference? Mean ± SEM of column A	66.18 ± 3.717 N=4					_
Unpaired t test of Cox4 - TA Unpaired t test of Cox4 - TA males	Mean ± SEM of column B Difference between means	62.15 ± 3.359 N=5 -4.034 ± 5.016					-
L Unpaired t test of Cox4 - TA females	95% confidence interval R square	-15.90 to 7.828					\mp
Unpaired t test of Cox4 - SOL males	20	0.00400					+
Unpaired test of CS - TA males	F test to compare variances F,DFn, Dfd	1.021, 4, 3					-
Characteristics of CS - SOL Compared t test of CS - SOL Compared t test of CS - SOL Compared t test of CS - SOL	P value P value summarv	> 0.9999 ns					
t Unpaired t test of CS - SOL females	Significantly different? (P < 0.05)	No					-
t Unpaired t test of BHAD - TA male	27						=
Col. stats of Cox4 - TA	29						
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MASS AND PERFORMANCE TEST RECORDINGS

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