Poster Programme

Poster Session 1

[P1.001]	**Physical Exercise prevents the loss of dendritic spines in mouse barrel cortex and improves memory function via BDNF-TrkB signal pathway** K. Chen[1], L. Zhang*[1], M. Tan[1], C. Lai[2], A. Li[1], C. Ren[1], K.F. So[1,2], *[1]Jinan University, China, [2]The University of Hong Kong, Hong Kong*
[P1.002]	**Nuclear envelope protein lamin AC is a crucial mechanosensory component of human skeletal muscle** D.J. Owens*, J. Messeant, A. Ferry, A. Bertrand, G. Bonne, C. Coirault, *Institut de Myologie, Universite Pierre et Marie Curie, France*
[P1.003]	**Dynamic changes in genome-wide enhancer usage during skeletal muscle adaptation to exercise** T. Fu[1], Y. Zeng[2], Q. Zhou[1], X. Dou[2], X. Liang[1], L. Liu[1], J. Han[2], Z. Gan*[1], *[1]Nanjing University, China, [2]Institute of Computing Technology Chinese Academy of Sciences, China*
[P1.004]	**The combined effect of high intensity intermittent training and vitamin D supplementation on glycaemic control in overweight and obese males and females** H. Lithgow*, M. Leggate, G. Florida-James, *Edinburgh Napier University, UK*
[P1.005]	**Spreading of mitochondrial membrane potential is involved in Ca^{2+}-dependent increased O_2 consumption after skeletal muscle stimulation** A. Díaz-Vegas*[1], A. Cordova[1], C. Hidalgo[1], *[1]Universidad de Chile, Chile, [2]Universidad Finis Terrae, Chile*
[P1.006]	**Adiponectin is required for physical exercise to restore hippocampal neurogenesis in streptozotocin-induced diabetic mice** S.Y. Yau*[1], A. Li[2], A.M. Xu[3], K.F. So[2,3], *[1]Hong Kong Polytechnic University, Hong Kong, [2]Jinan University, China, [3]University of Hong Kong, Hong Kong*
[P1.007]	**Predictive genetic markers for racing durability and the identification of an exercise-mediating behavioural response gene** E.W. Hill[1,2], B.A. McGivney[1], H.L. Wiencko[1], A.C. Parnell[2,3], G. Farries[2], K. Bryan[2], L.M. Katz[2], D.E. MacHugh[2], M. Weiser*[1], *[1]Plusvital Ltd, Ireland, [2]University College Dublin, Ireland, [3]Irish Data Analystics, Ireland*
[P1.008]	**The diet and exercise-microbiome paradigm: Distinct functional profiles of the athlete microbiome revealed by metagenomic and metabonomic analysis** W. Barton*[1,2], N.C. Penney[4], O. Cronin[1,3], I.G. Perez[4], M.G. Molloy[1,3], E. Holmes[4], F. Shannahan[1,3], P.D. Cotter[1,2], O. O'Sullivan[1,2], *[1]Alimentary Pharmabiotic Centre Microbiome Institute, Ireland, [2]Teagasc Food Research Centre, Ireland, [3]University College Cork, Ireland, [4]Imperial College London, UK*
[P1.009]	**Effects of moderate exercise training on muscle wasting in tumor-bearing mice exposed to chemotherapy** R. Ballarò*[1,2], M. Beltrà[1,2], F. Pin[1,2], K. Ranjbar[3], P. Costelli[1,2], F. Penna[1,2], *[1]University of Torino, Italy, [2]Interuniversity Institute of Myology, Italy, [3]Tarbiat Modares University, Iran*
[P1.010]	**Integrated analysis of metabolome and transcriptome reveals activation in pentose phosphate pathway after high-frequency electrical stimulation in C2C12 myotubes** D. Hoshino*[1], K. Kawata[1], K. Kunida[1], A. Hatano[1], K. Yugi[2], Y. Suzuki[1], N. Fujii[4], T. Soga[3], S. Kuroda[1], *[1]The University of Tokyo, Japan, [2]RIKEN, Japan, [3]Keio University, Japan, [4]Tokyo Metropolitan University, Japan*
[P1.011]	**Pre-exercise fasting attenuates post-exercise skeletal muscle glycogen repletion in mice** Y. Takahashi*, Y. Matsunaga, Y. Tamura, H. Hatta, *The University of Tokyo, Japan*
[P1.012]	**Effects on metabolism and whole-body fat oxidation following post-exercise carbohydrate or protein intake** U. Andersson-Hall*[1,2], S. Pettersson[1], F. Edin[1], A. Pedersen[1], A. Holmäng[1], K. Madsen[1,2], *[1]University of Gothenburg, Sweden, [2]Arhus University, Denmark*
[P1.013]	**Rac1 is an essential regulator of exercise-induced redox signaling: Effects on glucose metabolism** C. Henriquez-Olguin*[1,2], J. Knudsen[1], Z. Li[1], L. Sylow[1], E. Richter[1], E. Jaimovich[2], T. Jensen[1], *[1]University of Copenhagen, Denmark, [2]Universidad de Chile, Chile*
[P1.014]	**Cellular signaling induced by extracellular lactate in adult skeletal muscle: Possible alterations in insulin-resistant state** H. Cerda-Kohler*, C. Henríquez-Olguín, D. Valladares, C. Campos, P. Llanos, E. Jaimovich, *Universidad de Chile, Chile*
[P1.015]	**Lack of activation of mitophagy during endurance exercise in human skeletal muscle** C. Schwalm*, L. Deldicque, M. Francaux, *IoNS, Belgium*
[P1.016]	**Patients with intermittent claudication decrease or increase walking performance after an exercise intervention and this response relates to mitochondrial function** M. van Schaardenburgh*[1], M. Wohlwend[1], O. Rognmo[1], E. Mattsson[1,2], *[1]Norwegian University of Science an Technology, Norway, [2]St Olavs Hospital, Norway*
[P1.017]	**Deletion of NADPH oxidase 4 ameliorates skeletal muscle atrophy in angiotensin II-infusion mice** T. Kadoguchi*, K. Shimada, T. Shiozawa, S. Takahashi, H. Al Shahi, T. Aikawa, S. Ouchi, K. Kitamura, T. Miyazaki, H. Daida, *Juntendo University Graduate School of Medicine, Japan*

[P1.018]	**Acute high-intensity exercise in hypoxia down-regulates mitochondrial biogenesis in equine skeletal muscle** K. Mukai*[1], H. Ohmura[1], A. Matsui[1], H. Aida[1], J.H. Jones[2], T. Takahashi[1], *[1]Japan Racing Association, Japan, [2]University of California, Davis, USA*
[P1.019]	**Intrinsic fibre type and limb differences in skeletal muscle intramyocellular lipid content** N. Ørtenblad*[1,2], H.C.E. Koh[1], H.C. Holmberg[2], J. Nielsen[1], *[1]University of Southern Denmark, Denmark, [2]Mid Sweden University, Sweden*
[P1.020]	**Regulation of *PGC-1α* gene expression in trained and untrained human skeletal muscle** D.V. Popov*[1,2], E.A. Lysenko[1,2], A.D. Butkov[1], P.A. Makhnovskii[1,2], O.L. Vinogradova[1,2], *[1]SSC RF Institute of biomedical problems RAS, Russia, [2]M.V. Lomonosov Moscow State University, Russia*
[P1.021]	**Exercise blunts aging-induced deterioration of skeletal muscle function and improves health span in a PGC-1α-dependent manner** J. Gill[1], G. Santos[1], S. McGuirk[2], S. Schnyder[1], J. St-Pierre[2], C. Handschin*[1], *[1]University of Basel, Switzerland, [2]McGill University, Canada*
[P1.022]	**Quantitative proteomic analysis of the exercise-induced extracellular vesicle proteome reveals a marked upregulation of circulating exosomes** M. Whitham*[1], B.L. Parker[3], B. Kiens[2], L.N.N. Cron[1], N. Jayasooriah[4], C.M. Suter[4], E.A. Richter[2], D.E. James[3], J.F.P. Wojtaszewski[2], M.A. Febbraio[1], *[1]Garvan Institute of Medical Research, Australia, [2]University of Copenhagen, Denmark, [3]University of Sydney, Australia, [4]Victor Chang Cardiac Research Institute, Australia*
[P1.023]	**Lipid droplet size and location in human skeletal muscle fibers are linked to insulin sensitivity** J. Nielsen*[1], A.E. Christensen[1], B. Nellemann[2], B. Christensen[2], *[1]University of Southern Denmark, Denmark, [2]Aarhus University Hospital, Denmark*
[P1.024]	**Statins affect skeletal muscle performance: Evidence for disturbances in energy metabolism** N. Allard*[1], T. Schirris[1], R. Verheggen[1], F. Russel[1], R. Rodenburg[1], J. Smeitink[1], P. Thompson[2], M. Hopman[1], S. Timmers[1], *[1]Radboud University Medical Center, The Netherlands, [2]Hartford Hospital, USA*
[P1.025]	**Impact of high intensity interval or moderate intensity continuous training program on body composition changes in type 2 diabetes postmenopausal females: A randomized crossover study** F. Maillard[1], S. Rousset[2,4], Y. Boirie[3,2], M. Duclos[3,2], N. Boisseau*[1,4], *[1]Clermont Auvergne University, France, [2]UMR, France, [3]University Hospital, France, [4]CRNH Auvergne, France*
[P1.026]	**Maternal Western diet promotes age-specific alterations in female offspring voluntary wheel running** G.N. Ruegsegger*, K.B. Grigsby, T.J. Kelty, T.E. Childs, F.W. Booth, *University of Missouri, USA*
[P1.027]	**Left ventricular molecules associated with the initiation of the start of lifetime's decline in maximal cardiorespiratory fitness** F. Booth*, R. Toedebusch, T. Childs, G. Ruegsegger, *University of Missouri, USA*
[P1.028]	**Visualizing spaciotemporal and quantitative dynamics of ATP levels in mouse** Y. Ishihara[1], G. Ohtsuki[1], H. Miwa[3], H. Aoki[1], H. Tsuchida[1], R. Ogasawara[4], K. Sakamoto[5], M. Yanagita[1], H. Imamura[1], M. Yamamoto*[1,2], *[1]Kyoto University, Japan, [2]PRESTO, Japan, [3]Harverd University, USA, [4]Nagoya Institute of Technology, Japan, [5]Nestle Institute of Health Sciences, Switzerland*
[P1.029]	**Reduced mitochondrial respiration in abdominal subcutaneous adipose tissue in women with polycystic ovary syndrome** T. Moholdt*[1], I. Almenning[1], S. Larsen[2], F. Bækkerud[1], *[1]Norwegian University of Science and Technology, Norway, [2]University of Copenhagen, Denmark*
[P1.030]	**Increased insulin-stimulated glucose uptake in both leg and arm muscles after sprint interval and moderate intensity training in subjects with type 2 diabetes or prediabetes** T.J. Sjöros*[1,2], M.A. Heiskanen[1], K.K. Motiani[1], E. Löyttyniemi[1], J-J. Eskelinen[1], K.A. Virtanen[1,3], N.J. Savisto[1], O. Solin[1,4], J.C. Hannukainen[1], K.K. Kalliokoski[1], *[1]University of Turku, Finland, [2]University of Jyväskylä, Finland, [3]Turku University Hospital, Finland, [4]Åbo Academi University, Finland*
[P1.031]	**Preferential utilisation of intermyofibrillar lipid droplets during exhaustive exercise in highly-trained athletes: A semi-quantitative electron microscopic study** H.C.E. Koh*[1], J. Nielsen[1], H.C. Holmberg[2], N. Ørtenblad[1,2], *[1]University of Southern Denmark, Denmark, [2]Mid Sweden University, Sweden*
[P1.032]	**The interaction between circadian rhythm and mitochondrial function in skeletal muscle** B.M. Gabriel*[1], A.L. Basse[2], R. Barrès[2], A. Krook[1], J.R. Zierath[1,2], *[1]Karolinska Institutet, Sweden, [2]University of Copenhagen, Denmark*
[P1.033]	**Time-course Effects of Exercise on Anxiety-like Behaviors and Hippocampal Neuronal Nitric Oxide Synthase in High Fat Diet-induced Obese Mice** Y. Tomiga*, S. Yoshimura, Y. Takahashi, R. Goto, I. Kugimoto, Y. Uehara, K. Kawanaka, H. Tanaka, Y. Higaki, *Fukuoka University, Japan*
[P1.034]	**Autonomous regulation of skeletal muscle mass by the Vitamin D receptor** J.J. Bass*[1], A. Kazi[2], A. Nakhuda[1], C.S. Deane[3], D.J. Wilkinson[1], B.E. Phillips[1], K. Smith[1], D. Andersen[6], A. Philp[4], J. Tarum[5], *[1]University of Nottingham, UK, [2]Pennsylvania State University College of Medicine, USA, [3]University of Exeter, UK, [4]University of Birmingham, UK, [5]Örebro University, Sweden, [6]Royal Veterinary College, UK*
[P1.035]	**Irisin, physical activity and fitness status in healthy humans: No association under resting conditions in a cross-**

	sectional study N. Siegel*[1], S. Bandt[2], A. Roth[2], S. Haertel[1], R. Neumann[1], A. Bub[1,2], *[1]Karlsruhe Institute of Technology, Germany, [2]Max Rubner-Institut, Germany*
[P1.036]	**Glucose effectiveness, but not insulin sensitivity, is improved after 2 weeks of interval training in subjects with type 2 diabetes** K. Karstoft[1], M.A. Clark[1], I. Jakobsen[1], S.H. Knudsen[1], G. van Hall[1], B.K. Pedersen[1], T.P.J. Solomon*[2], *[1]University of Copenhagen, Denmark, [2]University of Birmingham, UK*
[P1.037]	**Single muscle fiber proteomics reveals fiber type-specific features of human muscle aging** M. Murgia*[1,2], L. Toniolo[2], N. Nagaraj[1], S. Ciciliot[3], V. Vindigni[2], S. Schiaffino[3], C. Reggiani[2], M. Mann[1], *[1]Max-Planck-Institute of Biochemistry, Germany, [2]University of Padova, Italy, [3]Venetian Institute of Molecular Medicine, Italy*
[P1.038]	**Metformin up-regulates the expression of β2-adrenergic receptor in skeletal muscle** J-W. Son*, O-K. Hong, S-S. Lee, S-R. Kim, S-J. Yoo, *The Catholic University of Korea, Republic of Korea*
[P1.039]	**Hypoxia-inducible factor-2 alpha mediates exercise-induced hypothalamic glucose sensing** V.R.R. Silva*, C.K. Katashima, L. Lenhare, L.D.M. Dantas, A.V. Cordeiro, R.C. Gaspar, V.R. Munhoz, D.E. Cintra, J.R. Pauli, E.R. Ropelle, *University of Campinas, Brazil*
[P1.040]	**Co-ingestion of protein hydrolysate with carbohydrate enhances anabolic signaling, but not glycogen resynthesis, following recovery from endurance exercise in trained cyclists** K.E. Cogan*[1], M. Evans[1], A. Melvin[1], E. Iuliano[1], G. De Vito[1,2], B. Egan[1,2], *[1]University College Dublin, Ireland, [2]Dublin City University, Ireland*
[P1.041]	**Phosphoproteomic screening of exercise mimetics reveal extensive drug interactions and signalling networks** E. Needham, R. Chaudhuri, S. Humphrey, D. James, B. Parker*, *The University of Sydney, Australia*
[P1.042]	**Multiplexed temporal quantification of the exercise-regulated plasma peptidome** B. Parker*[1], J. Burchfield[1], D. Clayton[1], R. Payne[1], B. Kiens[2], J. Wojtaszewski[2], E. Richter[2], D. James[2], *[1]The University of Sydney, Australia, [2]The University of Copenhagen, Denmark*
[P1.043]	**Long-term moderate exercise increases lactate metabolism and hippocampal neuroplasticity** Y.W. Chen*[1,2], Y.M. Kuo[1,2], *[1]National Cheng Kung University, Taiwan, [2]College of Medicine, Taiwan*
[P1.044]	**Metabolomic analysis of skeletal muscle before and 4 hours after normoxic and hypoxic exercise in horses** H. Ohmura*[1], K. Mukai[1], Y. Takahashi[1], T. Takahashi[1], J.H. Jones[2], *[1]Japan Racing Association, Japan, [2]University of California, USA*
[P1.045]	**Regulation of muscle mitochondrial respiration by TGFβ** C. Hoffmann*[1], S. Hoeckele[2,3], A. Böhm[1,3], M. Hrabe de Angelis[2,3], H-U. Häring[1,2], C. Weigert[1,4], *[1]University Hospital Tübingen, Germany, [2]German Research Center for Enviromental Health Neuherberg, Germany, [3]German Center for Diabetes Research (DZD), Germany, [4]University of Tübingen, Germany*
[P1.046]	**Impact of maternal nutrition on offspring exercise performance and skeletal muscle energy metabolism** J. Kasch*, S. Schumann, K. Haase, I. Lasik, S. Klaus, *German Institute of Human Nutrition Potsdam Rehbruecke, Germany*
[P1.047]	**ASK1 signaling regulates brown adipocyte function** K. Hattori*, H. Wakatsuki, H. Ichijo, *The University of Tokyo, Japan*
[P1.048]	**Combined pharmacological inhibition of PAK1 and PAK2, but not knockout of PAK1 reduces glucose transport induced by stretch and contraction** L.L.V. Møller*, L. Sylow, I.L. Nielsen, T.E. Jensen, E.A. Richter, *University of Copenhagen, Denmark*
[P1.049]	**Panax Ginseng intake improves post-prandial lipid metabolism in recreational athletes** D.H. García*, A. Naudí, J. Serrano, *Dublin City University, Spain*
[P1.050]	**Exercise regulates expression of long noncoding RNAs** M. Wohlwend*, K. Chawla, U. Wisløff, J.B. Moreira, *Norwegian University of Science and Technology, Norway*
[P1.051]	**Asb2 mediated loss of muscle mass is accompanied by impaired muscle metabolism** L. Sylow*[1], J. Davey[2], L.L.V. Moller[1], B.L. Parker[3], D.E. James[3], P. Gregorevic[2], *[1]University of Copenhagen, Denmark, [2]Baker Heart and Diabetes Institute, Australia, [3]Charles Perkins Centre, Australia*
[P1.052]	**Voluntary wheel running induction of ΔFosB in nucleus accumbens promotes resilience to chronic social defeat stress** J. Mul*[1,5], M. Soto[1], M. Cahill[2], R. Ryan[1], H. Takahashi[1], K. So[1], J. Zheng[1], D. Croote[1], M. Hirshman[1], S. la Fleur[5,3], *[1]Joslin Diabetes Center, USA, [2]Icahn School of Medicine at Mount Sinai, USA, [3]Netherlands Institute for Neuroscience, The Netherlands, [4]Brigham and Women's Hospital, USA, [5]Academic Medical Center, The Netherlands*
[P1.053]	**Already two weeks of interval training alters brain glucose metabolism in subjects with pre-diabetes or type 2 diabetes** S.M. Honkala*[1], J.J. Johansson[1], K.K. Motiani[1], J.J. Eskelinen[1], K.A. Virtanen[1], E. Löyttyniemi[2], J. Knuuti[1], P. Nuutila[1], K.K. Kalliokoski[1], J.C. Hannukainen[1], *[1]Turku PET Centre, Finland, [2]University of Turku, Finland*
[P1.054]	**Molecular Transducers of Physical Activity Consortium (MoTrPAC): Creating a comprehensive map of molecular changes in response to physical activity** A. Boyce*[1], B. Goodpaster[2], W. Kohrt[1], M. Laughlin[1], N. Musi[3], *[1]NIH, USA, [2]Sanford Burnham Prebys Medical Discovery Institute, USA, [3]University of Texas Health Science Center, USA*

[P1.055]	**Skeletal muscle to pancreatic beta cell crosstalk: The effect of mediators liberated by muscle contraction on cytokine-induced pancreatic beta cell dysfunction** J. Barlow*[1], S. Carter[1], C. Affourtit[2], T. Solomon[1], *[1]University of Birmingham, UK, [2]Plymouth University, UK*
[P1.056]	**Does contractile activity of skeletal muscle protect against hyperglycaemia-induced insulin resistance?** S. Carter*, J. Barlow, T. Solomon, *University of Birmingham, UK*
[P1.057]	**Human sperm telomere dynamics after 6-weeks of sprint interval training (SIT)** J. Denham, *University of New England, Australia*
[P1.058]	**Reduced blood insulin stimulates resistance exercise-induced AMPK pathway activation concomitant with AMPKα Ser485/491 inhibitory phosphorylation in rat skeletal muscle** K. Kido*[1], T. Yokokawa[2], S. Ato[1], K. Sato[3], S. Fujita[1], *[1]Ritsumeikan University, Japan, [2]Kyoto University, Japan, [3]Kobe University, Japan*
[P1.059]	**The effect of exercise training type on skeletal muscle regeneration after Ischemia - reperfusion in rat** C.H. Lim*[1], S.Y. Kim[2], C.K. Kim[1], *[1]Korea National Sport University, Republic of Korea, [2]Ansan University, Republic of Korea*
[P1.060]	**Microglial activation, BDNF signaling pathway and dopaminergic neuron survival in the substantia nigra: The countering effects between aging and exercise** W.T. Lee*, S.Y. Wu, Y.M. Kuo, *National Cheng Kung University, Taiwan*
[P1.061]	**Sex-selective regulation of muscle mass by western-style diet** M. Shimizu*, R. Sato, *The University of Tokyo, Japan*
[P1.062]	**The effect of a single aerobic exercise and of aerobic training on regulation of protein synthesis and degradation in human skeletal muscle** O. Vinogradova*, E. Lysenko, A. Bytkov, D. Popov, *SSC RF Institute of biomedical problems RAS, Russia*
[P1.063]	**Assessing the effects of moderate exercise on a mouse model of chronic inflammation** A. Bianchi*, B. Elliott, D. Mann, C. Wilson, *Newcastle University, UK*
[P1.064]	**Exercise rescues early distal insulin signalling in muscle but not whole body insulin sensitivity in Polycystic Ovary Syndrome** N.K. Stepto*[1,2], D.S. Hiam[1,3], C.L. Harrison[3], A. Joham[3], S. Cassar[1,3], M. Gibson-Helm[3], N. Hatzirodos[4], R.J. Rodgers[4], H.J. Teede[3], *[1]Victoria University, Australia, [2]Melbourne University and Western Health, Australia, [3]Monash University, Australia, [4]University of Adelaide, Australia*
[P1.065]	**The AMPK and mechanical stress-stimulated phosphoproteome reveals important sites controlling metabolic switching** A.B. Madsen*[1,2], B. Parker[2], P. Yang[2], E.A. Richter[1], D.E. James[2], T.E. Jensen[1], *[1]University of Copenhagen, Denmark, [2]Charles Perkins Centre, Australia*
[P1.066]	**Angiopoietin-like protein 4 is an exercise-induced hepatokine in humans** J.S. Hansen*[1], B. Ingerslev[1], J.O. Clemmesen[1], N.H. Secher[1], C. Hoffmann[2], M. Scheler[3], M.H. de Angelis[4], H.U. Häring[2], B.K. Pedersen[1], C. Weigert[2], *[1]Rigshospitalet, Denmark, [2]University of Tuebingen, Germany, [3]Helmholtz Center Munich, Germany, [4]Technical University Munich, Germany*
[P1.067]	**Contribution of the liver to exercise-induced changes in plasma metabolites: A metabolomics approach** P. Plomgaard*[1], J.S. Hansen[1], X.J. Zhao[2], M. Hoene[3], X.L. Wang[2], J.O. Clemmesen[1], N.H. Secher[1], H.U. Häring[3], B.K. Pedersen[1], R. Lehmann[3], *[1]Rigshospitalet, Denmark, [2]Dalian Institute of Chemical Physics, China, [3]University Tuebingen, Germany*
[P1.068]	**Exercise increases GLUT4 promoter histone acetylation in human skeletal muscle** M. Hargreaves*[1], M. Flores-Opazo[1], A. Garnham[2], M. Ziemann[3], K. Harikrishnan[3], I. Khurana[3], A. Kapsi[3], A. El-Osta[3], *[1]The University of Melbourne, Australia, [2]Deakin University, Australia, [3]Monash University, Australia*
[P1.069]	**Ischaemia promotes the exercise-stimulated muscle gene response associated with mitochondrial protein content and glucose transport in healthy men** D. Christiansen*[1], R.M. Murphy[2], J. Bangsbo[3], D.J. Bishop[1], *[1]Victoria University, Australia, [2]La Trobe University, Australia, [3]University of Copenhagen, Denmark*
[P1.070]	**Unfolded protein response after a single resistance training bout and long-term resistance training period in young and older men** J. Hentilä*[1], J.P. Ahtiainen[1], H. Selänne[2], K. Häkkinen[1], A.A. Mero[1], J.J. Hulmi[1,3], *[1]University of Jyväskylä, Finland, [2]LIKES Research Center for Sport and Health Sciences, Finland, [3]University of Helsinki, Finland*
[P1.071]	**The relationship between locomotive syndrome and oxidative stress - Cross sectional study of 66 patients with locomotive symptoms** S. Banno*[1,2], H. Nojiri[1,2], M. Koike[1,2], K. Miyagawa[1,2], Y. Iwase[1,2], H. Kurosawa[1], K. Kaneko[2], *[1]Juntendo Tokyo Koto geriatric medical center, Japan, [2]Juntendo University, Japan*
[P1.072]	**Effects of experimental cancer cachexia and activin receptor ligand blocking on physical activity and oxidative properties of skeletal muscle** T. Nissinen*[1], J. Hentilä[1], F. Penna[2], J. Lautaoja[1], M. Silvennoinen[1], T. Holopainen[3], A. Pasternack[3], O. Ritvos[3], R. Kivelä[3], J. Hulmi[1,3], *[1]University of Jyväskylä, Finland, [2]University of Turin, Italy, [3]University of Helsinki, Finland*
[P1.073]	**Deciphering the association networks of mycobiome communities among the elderly Danes** H.F. Ahmad*[1,5], K. Faust[2], J.L. Castro-Mejia[1], W. Kot[3], R.L. Bechshøft[4], S. Reitelseder[4], L. Holm[1,4], D.S. Nielsen[1],

	[1]University of Copenhagen, Denmark, [2]KU Leuven, Belgium, [3]Aarhus University, Denmark, [4]Bispebjerg Hospital, Denmark, [5]Universiti Malaysia Pahang, Malaysia
[P1.074]	**A Fast Skeletal Troponin Activator (FSTA), CK-2066260, counteracts the fatigue-induced decline in skeletal muscle contractile force by lowering the metabolic cost** A. Cheng*[1], D. Hwee[2], L. Kim[2], N. Durham[2], A. Hinken[2], A. Kennedy[2], R. Terjung[3], J. Jasper[2], F. Malik[2], H. Westerblad[1], *[1]Karolinska Institutet, Sweden, [2]Cytokinetics Inc., USA, [3]University of Missouri, USA*
[P1.075]	**Skeletal muscle cells display circadian rhythmicity associated with promoter methylation and is modulated by contractile activity** R.C. Laker*[1], C. Garde[1], B. Gabriel[2], R. Barrès[1], J.R. Zierath[2,1], *[1]University of Copenhagen, Denmark, [2]Karolinska Institute, Sweden*
[P1.076]	**Exercise training diminishes the effect of acute exercise on insulin sensitivity in man** D.E. Steenberg*, N.B. Jørgensen, K.A. Sjøberg, B. Kiens, E.A. Richter, J.F.P. Wojtaszewski, *University of Copenhagen, Denmark*
[P1.077]	**Exercise recovery is associated with distinct metabolite profiles in healthy volunteers: a metabolomics approach** M. Armbruster, M. Rist, P.G. Ferrario, A. Bub*, *Max Rubner-Institut, Germany*
[P1.078]	**Short-term AMPK activation lowers glucose in rodent models of T2DM and phenocopies many of the metabolic and transcriptional effects of exercise** E. Muise*, H-P. Guan, J. Liu, A. Nawrocki, X. Yang, C. Wang, D. Kelley, D. Kemp, R. Myers, I. Sebhat, *Merck Research Labs, USA*
[P1.079]	**Ingestion of B-hydroxybutyrate alters metabolic responses to exercise in trained cyclists** M. Evans*[1], E. Patchett[2], R. Nally[2], R. Kearns[2], M. Larney[2], B. Egan[1,2], *[1]Dublin City University, Ireland, [2]University College Dublin, Ireland*
[P1.080]	**Effect of adaptation to strength training on basal and exercise-induced signaling in skeletal muscle** E.A. Lysenko*, D.V. Popov, T.F. Vepkhvadze, A.D. Butkov, O.L. Vinogradova, *SSC RF Institute of biomedical problems RAS, Russia*
[P1.081]	**Single bout of electroacupuncture causing muscle contractions causes epigenetic and transcriptional changes in skeletal muscle mimicking acute exercise** E. Nilsson[1], A. Benrick[2,3], A. Perfilyev[1], T. Källman[4], M. Kokosar[2], K. Højlund[5], N. Pillon[6], A. Krook[6], C. Ling[1], E. Stener-Victorin*[6], *[1]Lund University, Sweden, [2]University of Gothenburg, Sweden, [3]University of Skövde, Sweden, [4]Uppsala University, Sweden, [5]Odense University, Denmark, [6]Karolinska Institutet, Sweden*
[P1.082]	**Maternal diet-induced obesity leads to cardiovascular defects in three successive generations of offspring** J. Ferey*, A. Boudoures, T. Pietka, M. Reid, A. Kovacs, K. Moley, *Washington University, USA*
[P1.083]	**Improvement in metabolic flexibility and skeletal muscle acetylcarnitine formation upon carnitine supplementation** Y.M.H. Bruls*, M. de Ligt, L. Lindeboom, E. Phielix, B. Havekes, J.E. Wildberger, M.K. Hesselink, P. Schrauwen, V.B. Schrauwen, *Maastricht University Medical Center, The Netherlands*
[P1.084]	**A miRNA screening in muscle cells identifies miR-320a, miR-150, miR-196b and miR-34c as regulators of human skeletal muscle mitochondrial metabolism** D. Dahlmans[1], A. Houzelle*[1], P. Andreux[2], J.A. Jorgensen[1], X. Wang[2], L.J. de Windt[1], P. Schrauwen[1], J. Auwerx[2], J. Hoeks[1], *[1]Maastricht University, The Netherlands, [2]Ecole polytechnique federale de Lausanne, Switzerland*
[P1.085]	**High-intensity interval training is as efficient as moderate intensity training for cardiac function** M. Verboven*, D. Deluyker, B.O. Eijnde, D. Hansen, V. Bito, *Hasselt University, Belgium*
[P1.086]	**Transcriptional programming of lipid and amino acid metabolism by the skeletal muscle circadian clock** K.A. Dyar*[1,2], S. Schiaffino[2], N.H. Uhlenhaut[1], *[1]Helmholtz Zentrum München, Germany, [2]Venetian Institute of Molecular Medicine (VIMM), Italy*
[P1.087]	**Effects of endurance exercise and changes in muscle activity on a Huntington's disease mouse model** S. Corrochano*[1], A. Acevedo-Arozena[1], *[1]Medical Research Council, UK, [2]Hospital Universitario de Canarias, Spain*
[P1.088]	**A comparison of high-intensity interval versus moderate-intensity continuous running after 8 weeks of outdoor training and 4 weeks of detraining** F. Gripp[1], T. Moriarty[2], M. Dias-Peixoto[1], R. Cassilhas[1], F. Magalhães[1], F. Amorim*[1,2], *[1]Universidade Federal dos Vales do Jequitinhonha e Mucuri, Brazil, [2]University of New Mexico, USA*
[P1.089]	**High intensity interval training changes skeletal muscle insulin signaling pathway of obese individuals** M.A. Aguiar[1], T. Moriarty*[2], F. Magalhães[1], D.V. Vieira[1], K. Pinhal[1], M. Dias-Peixoto[1], E. Rocha-Vieira[1], F. Amorim[1,2], *[1]Universidade Federal dos Vales do Jequitinhonha e Mucuri, Brazil, [2]University of New Mexico, USA*
[P1.090]	**An acute bout of prolonged sitting impairs endothelial function and increases plasma concentrations of endothelin-1 and sVCAM-1 in overweight/obese insulin-resistant adults** M.S. Grace*[1,2], R.E.D. Climie[1], J. Carr[1,2], M. Wheeler[1,3], F. Dillon[1], N. Eikelis[1], N. Owen[1,2], D.J. Green[3], B.A. Kingwell[1], D.W. Dunstan[1,2], *[1]Baker Heart and Diabetes Institute, Australia, [2]Monash University, Australia, [3]University of Western Australia, Australia*
[P1.091]	**Circulating microRNAs are potential biomarkers of cardiorespiratory fitness** J. Denham*[1], P.R. Prestes[2], *[1]University of New England, Australia, [2]Federation University Australia, Australia*
[P1.092]	**Metabolic and physiological roles of AMPK β1 glycogen binding**

	N. Hoffman*[1], S. Galic[2], J. Oakhill[1,2], J. Scott[1,2], G. Steinberg[3], B. Kemp[1,2], J. Hawley[1,4], *[1]Australian Catholic University, Australia, [2]St Vincent's Institute of Medical Research, Australia, [3]McMaster University, Canada, [4]Liverpool John Moores University, UK*
[P1.093]	**Mitochondrial superoxide regulates ATP metabolism and exercise capacity in skeletal muscle** I. Sakamoto*[1,2], H. Nojiri[2], K. Kaneko[2], T. Shimizu[1], *[1]Chiba University, Japan, [2]Juntendo University, Japan*
[P1.094]	**Cardiovascular and metabolic responses of high intensity sprint protocols on the cybex spark™ trainer** T. Moriarty*, K. Escobar, T. Nunez, F. Amorim, L. Kravitz, *University of New Mexico, USA*
[P1.095]	**Exercise induces expression of HDL major protein component, ApoA1, in skeletal muscle** M. Lehti*[1], T. Nissinen[2], H. Kainulainen[2], S. Hofmann[3], *[1]LIKES Research Centre, Finland, [2]University of Jyväskylä, Finland, [3]Helmholtz Zentrum München, Germany*
[P1.096]	**Increased respiratory chain supercomplex formation and mitochondrial respiration in response to exercise training in human skeletal muscle** D. Bishop*[1], C. Granata[1,2], J. Kuang[1], J. Botella[1], N. Jamnick[1], *[1]Victoria University, Australia, [2]Monash University, Australia*
[P1.097]	**Enzymatic dissociated skeletal muscle fibers show an artificially facilitated mitochondrial Ca^{2+} uptake** H. Westerblad*[1], C. Gineste[2], J.D. Bruton[1], A.J. Cheng[1], N. Ivarsson[1], *[1]Karolinska Institutet, Sweden, [2]Aix Marseille University, France*
[P1.098]	**Pantothenate kinase 4 is a novel exercise-responsive protein that regulates lipid oxidation in skeletal muscle** M. Kleinert*[1,2], A. Fritzen[1], L. Sylow[1], L. Moller[1], J. Knudsen[1], R. Kjobsted[1], K. Dyar[2], J. Davey[3], H. Qian[3], P. Gregorevic[3], *[1]University of Copenhagen, Denmark, [2]Helmholtz Zentrum München, Germany, [3]Baker IDI Heart and Diabetes Institute, Australia*
[P1.099]	**Dietary preferences and body weight loss in response to exercise are sex dependent** R.Z. Tom*[1], S. Cucuruz[1], C. Striese[1], S. Schriver[1], D. Lutter[1], B. Lam[2], G. Yeo[2], M. Tschöp[1], S. Hofmann[1], *[1]Helmholtz Zentrum, Germany, [2]University of Cambridge, UK*
[P1.100]	**Differential changes in myocellular lipid droplet morphology between type 2 diabetes patients responsive or irresponsive to exercise training** S. Daemen*, A. Gemmink, B. Brouwers, R.C.M. Meex, G. Schaart, P. Schrauwen, M.K.C. Hesselink, *Maastricht University, The Netherlands*
[P1.101]	**Moderate-intensity exercise results in preferential translocation of hormone sensitive lipase to perilipin-5 associated lipid droplets in human skeletal muscle** K.L. Whytock, S.O. Shepherd, A.J.M. Wagenmakers, J.A. Strauss*, *Liverpool John Moores University, UK*
[P1.102]	**MAFF is a novel molecular target of exercise** J.B.N. Moreira*, M. Wohlwend, I. Åmellem, A. Flatberg, S.B. Andersen, G. Bjørkøy, U. Wisløff, *Norwegian University of Science and Technology, Norway*
[P1.103]	**Relationship of longitudinal physical activity behavior with anthropometric and metabolic parameters in patients with recent-onset type 1 and 2 diabetes** D. Pesta*, P. Bobrov, O.P. Zaharia, K. Bodis, Y. Karusheva, K. Strassburger, J. Szendrödi, M. Roden, G.D.S. Cohort, *German Diabetes Center, Germany*
[P1.104]	**High-density lipoprotein increases cellular mitochondrial function** Y. Goto*, S. Nakashima, S. Abe, Y. Higaki, Y. Uehara, *Fukuoka University, Japan*
[P1.105]	**Fat accumulation processes in the liver of trained mice and untrained** S. Yoshimura*, Y. Tomiga, S. Nakashima, R. Goto, I. Kugimoto, Y. Takahashi, Y. Uehara, Y. Higaki, *Fukuoka University, Japan*
[P1.106]	**Mitochondrial function in adipose tissue and skeletal muscle: Adaptations to exercise training in obese black women** A.E. Mendham*[1], C. George[2], K. Adams[1], J. Goedecke[1,2], *[1]University of Cape Town, South Africa, [2]South African Medical Research Council, South Africa*

Poster Session 2

[P2.001]	**The correlation between the ability to oxidize fat and net fat oxidation during prolonged exercise** H. Tabata*[1,2], H-K. Kim[1,2], M. Konishi[1], S. Sakamoto[1], *[1]Waseda University, Japan, [2]Japan Society for Promotion of Science, Japan*
[P2.002]	**A single bout of low-frequency electroacupuncture causing muscle contractions increases whole-body glucose uptake in women** A. Benrick*[1,2], M. Kokosar[1], M. Maliqueo[1], A. Zasanova[4], C-J. Behre[4], K. Højlund[3], E. Stener-Victorin[1,5], *[1]University of Gothenburg, Sweden, [2]University of Skövde, Sweden, [3]Odense University, Denmark, [4]Sahlgrenska Academy, Sweden, [5]Karolinska Institute, Sweden*
[P2.003]	**Evidence for a transcriptome-driven variant-specific functional effect of the equine *myostatin (MSTN)* performance SNP (g.66493737C>T)** K. Bryan*, B. McGivney, G. Farries, K. Gough, C. McGivney, D. MacHugh, L. Katz, E. Hill, *University College Dublin, Ireland*

[P2.004]	**Electrical pulse stimulation of isolated mouse FDB muscle fibers as an in-vitro model of exercise-induced myokine release** S. Summermatter, M. Rausch, S. Brachat, F. Bello, E. Pierrel, H. Jeker, M. Steinmann, H. Keller*, *Novartis Institutes for BioMedical Research, Switzerland*
[P2.005]	**Dietary acid load and renal function have varying effects on acid-base status during exercise in adolescents, young adults and the elderly** E-M. Hietavala*[1], L.A. Frassetto[2], J.R. Stout[3], A.A. Mero[1], *[1]University of Jyväskylä, Finland, [2]University of California San Francisco, USA, [3]University of Central Florida, USA*
[P2.006]	**The plasmalemma of human skeletal muscle alters its structure to change its Ca^{2+}-handling in response to heavy-load resistance exercise** T.R. Cully[1], R.M. Murphy*[3], L. Roberts[1], T. Raastad[2], R.G. Fassett[1], J.S. Coombes[1], I.D. Jayasinghe[1,4], B.S. Launikonis[1], *[1]The University of Queensland, Australia, [2]Norwegian School of Sport Sciences, Norway, [3]La Trobe University, Australia, [4]University of Leeds, UK*
[P2.007]	**Muscle PGC-1α and exercise-induced autophagy in mouse subcutaneous adipose tissue** S. Ringholm*, I.F. Villesen, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.008]	**Follistatin overexpression improves insulin sensitivity in skeletal muscle** X. Han*[1], E.D. Groote[2], L.L.V. Møller[1], T.E. Jensen[1], J. Davey[3], P. Gregorevic[3], E.A. Richter[1], L. Sylow[1], *[1]University of Copenhagen, Denmark, [2]Université catholique de Louvain, Belgium, [3]Baker IDI Heart and Diabetes Institute, Australia*
[P2.009]	**Maternal high-fat diet induces changes in offspring skeletal muscle epigenetic profile** S. Schumann*, J. Kasch, S. Saussenthaler, A. Schürmann, I. Kanzleiter, S. Klaus, *German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE), Germany*
[P2.010]	**NAD precursor improves aerobic performance in mice** B.M. Crisol*, C.B. Veiga, R.C. Gaspar, L. Lenhare, V.R. Muñoz, R.S. Gaspar, A.V. Cordeiro, D.E. Cintra, J.R. Pauli, E.R. Ropelle, *University of Campinas, Brazil*
[P2.011]	**Impact of training state on fasting-induced adipose tissue lipolysis in humans** L. Bertholdt*, A. Gudiksen, T. Stankiewicz, I. Villesen, J. Tybirk, J. Bangsbo, P. Plomgaard, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.012]	**Acute knockout of AMPKα1α2 in adult skeletal muscle reveals unexpected metabolic phenotype** R. Kjøbsted*, J.R. Hingst, J.B. Birk, S.A.S. Kjeldsen, N.O. Jørgensen, C. Frøsig, J.F.P. Wojtaszewski, *University of Copenhagen, Denmark*
[P2.013]	**Prox1 transcription factor – a new regulator of skeletal muscle metabolism** N.G. Yosef[1], H.Y. Nguyen[2], E. Mervaala[1], R. Kerkelä[4], H. Koistinen[2,3], K. Alitalo[1], R. Kivelä*[1], *[1]University of Helsinki, Finland, [2]Minerva Research Institute, Finland, [3]Helsinki University Central Hospital, Finland, [4]University of Oulu, Finland*
[P2.014]	**Hyper-activated rac1 is too much of a good thing during exercise** S.H. Raun*[1], L.L.V. Møller[1], C. Henriquez-Olguín[1], J. Davey[2], H. Qian[2], P. Gregorevic[2], T.E. Jensen[1], E.A. Richter[1], L. Sylow[1], *[1]University of Copenhagen, Denmark, [2]Baker IDI Heart and Diabetes Institute, Australia*
[P2.015]	**Genetic contributions to measured speed variables in Thoroughbred racehorses during early training** G. Farries*, B.A. McGivney, K.F. Gough, L.M. Katz, E.W. Hill, *University College Dublin, Ireland*
[P2.016]	**Acute Effects of Eccentric and Concentric Cycling on Oxidative Stress and Inflammation Markers in Healthy Old Individuals** L. Penailillo*[1], K. Mackay[1], R. Gonzalez[1], D. Valladares[1], K. Nosaka[1], *[1]Universidad Finis Terrae, Chile, [2]Edith Cowan University, Australia*
[P2.017]	**Effect of acute bout of exercise on immune cell populations in adipose tissue and blood of obese and lean men** M. Šiklová*[1], E. Krauzová[1,2], M. Koc[1], M. Štepán[1,2], V. Šrámková[1], L. Rossmeislová[1], V. Štich[1,2], *[1]Charles University in Prague, Czech Republic, [2]University Hospital Kralovske Vinohrady, Czech Republic*
[P2.018]	**Beta$_2$-adrenergic stimulation increases muscle protein turnover in recovery from exercise in young men** S. Jessen*[1,2], L. Holm[2], S. Reitzeleider[2], M. Thomassen[1], J. Bangsbo[1], M. Hostrup[1,2], *[1]University of Copenhagen, Denmark, [2]Bispebjerg University Hospital, Denmark*
[P2.019]	**The effect of resistance exercise and amino acid ingestion on complex-specific mTOR localisation in human skeletal muscle** N. Hodson*[1], C. McGlory[2], S. Jeromson[3], S. Oikawa[2], M. Ruegg[4], D.L. Hamilton[3], S. Phillips[2], A. Philp[1], *[1]University of Birmingham, UK, [2]McMaster University, Canada, [3]Stirling University, UK, [4]University of Basel, Switzerland*
[P2.020]	**CRFR2 agonists improve insulin sensitivity and skeletal muscle function in type 2 diabetes** M.L. Borg*, M. Schönke, J. Massart, T.D.C. Barbosa, H.K.R. Karlsson, A.V. Chibalin, A. Krook, J.R. Zierath, *Karolinska Institutet, Sweden*
[P2.021]	**Effects of exercise training on motor functions, cognition and glucose metabolism in patients with Parkinson's disease** B. Ukropcova*[1,2], L. Slobodova[2,1], V. Tirpakova[1], P. Krumpolec[1], U. Dydak[5], W. Bogner[6], M. Krssak[6], P. Valkovic[2], M. Sedliak[4], J. Ukropec[1], *[1]Biomedical Research Center Slovak Academy of Sciences, Slovakia, [2]Faculty of Medicine Comenius University, Slovakia, [3]Slovak Medical University, Slovakia, [4]Faculty of Physical Education and Sports*

	Comenius University, Slovakia, [5]School of Health Sciences Purdue University, USA, [6]Medical University of Vienna, Austria
[P2.022]	**Exercise training reverses the effect of a Paleolithic diet on liver fat and intramyocellular lipid content in patients with type 2 diabetes** J. Otten*, A. Stomby, M. Waling, A. Isaksson, I. Söderström, M. Ryberg, M. Svensson, J. Hauksson, T. Olsson, *Umeå University, Sweden*
[P2.023]	**Exercise regulates skeletal muscle autophagy in an intensity and PGC-1α dependent manner** N. Brandt*, M. Munk Detlefsen, J. Bangsbo, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.024]	**Leveraging betting market data to derive accurate and heritable racing performance phenotypes in Thoroughbred horses** M. Weiser*, B. McGivney, H. Wiencko, E. Hill, *Plusvital Ltd, Ireland*
[P2.025]	**Changes in free and exosome-associated circulating miRNAs and myokine profile in non-professional sky-racers during the Gran Sasso d'Italia vertical run** M. Faraldi*[1], V. Sansoni[1], S. Perego[1], R. Paone[2], F. Aielli[2], N. Rucci[2], G. Banfi[1,3], G. Lombardi[1], *[1]IRCCS Istituto Ortopedico Galeazzi, Italy, [2]University of L'Aquila, Italy, [3]Vita-Salute San Raffaele University, Italy*
[P2.026]	**Beta2-adrenergic stimulation increases glucose clearance of skeletal muscle at rest but reduces clearance during exercise** J. Onslev*[1], J. Jensen[2], J. Bangsbo[1], M. Hostrup[1], *[1]University of Copenhagen, Denmark, [2]Norwegian School of Sports Sciences, Norway*
[P2.027]	**Exercise reduces the aging associated increase in Reactive oxygen species emission potential independent of PGC-1α** J. Nøhr-Meldgaard*, H. Jessen, J.F. Halling, A. Gudiksen, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.028]	**Dissociation between exercise-induced PGC-1α mRNA responses and training mediated oxidative adaptations** T.P. Gunnarsson*, N. Brandt, M. Fiorenza, H. Pilegaard, J. Bangsbo, *University of Copenhagen, Denmark*
[P2.029]	**ClC-1 expression in human skeletal muscle** M. Thomassen*[1], M. Hostrup[1], R.M. Murphy[2], B. Cromer[3], J. Bangsbo[1], *[1]University of Copenhagen, Denmark, [2]La Trobe University, Australia, [3]RMIT University, Australia*
[P2.030]	**Bioavailability of orange juice (poly)phenols: The impact of short-term cessation of training by male endurance athletes** G. Pereira-Caro[1], T. Polyviou[4], I.A. Ludwig[2], A.M. Nastase[4], J.M. Moreno-Rojas[1], A.L. Garcia[4], D. Malkova*[4], A. Crozier[3], *[1]IFAPA-Alameda del Obispo, Spain, [2]University of Lleida, Spain, [3]University of California, USA, [4]University of Glasgow, UK*
[P2.031]	**Loss of YY1 in macrophages induces a glycolytic switch and increased inflammation.** M. Fey, F. Verdeguer*, *University of Zurich, Switzerland*
[P2.032]	**Examining the role of SIRT1 in age-associated changes in the skeletal muscle metabolome.** S. Joanisse*[1], S.A. LaBarge[2], C. Roy[3], A.J. Chetwynd[1], S.R. Nalbandian[2], V.F. Martins[2], W.B. Dunn[1], S. Schenk[2], A. Philp[1], *[1]University of Birmingham, UK, [2]University of California San Diego, USA, [3]Institut national de santé publique du Québec (INSPQ), Canada*
[P2.033]	**Zmynd17 is necessary for mitochondrial quality control in fast-glycolytic muscle** R. Fujita[1], T. Suematsu[1], K. Yoshioka[1], D. Seko[1], S. Mitsuhashi[2], N. Senoo[3], I. Nishino[2], S. Miura[3], Y. Ono*[1], *[1]Nagasaki University Graduate School of Biomedical Sciences, Japan, [2]National Center of Neurology and Psychiatry, Japan, [3]University of Shizuoka, Japan*
[P2.034]	**Combination of Ubiquinol intake and moderate physical activity efficiently counteracts myocytes mitochondrial dysfunctions and apoptosis in a mouse model of sarcopenia** S. Silvestri*[1], P. Orlando[1], C. Andreani[2], C. Bartolacci[2], M. Guescini[3], F. Orlando[4], M. Provinciali[5], A. Amici[2], L. Tiano[1], *[1]Polytechnic University of Marche, Italy, [2]University of Camerino, Italy, [3]University of Urbino, Italy, [4]I.R.R.C.S., Italy, [5]National Research Institute on Aging (I.N.R.C.A), Italy*
[P2.035]	**Oral phosphatidic acid ingestion modulates resistance exercise-induced myofibrillar protein synthesis rates in older males** B. Smeuninx*[1], J. McKendry[1], Y. Nishimura[1], M. Limb[1,2], K. Smith[1,2], P. Atherton[1,2], L. Breen[1], *[1]University of Birmingham, UK, [2]University of Nottingham, UK*
[P2.036]	**12,13-diHOME: A novel exercise-induced biomarker for brown adipose tissue** L.A. Baer*[1], M.D. Lynes[2], H. Takahashi[2], N.R. Narain[3], M.F. Hirshman[2], M.A. Kiebish[3], Y. Tseng[2], P.M. Coen[4], L.J. Goodyear[2], K.I. Stanford[1], *[1]The Ohio State University, USA, [2]Joslin Diabetes Center, USA, [3]BERG, USA, [4]Translational Research Institute for Metabolism and Diabetes, USA*
[P2.037]	**Isoform-specific AMPK actions** N. Ziegler*, D. Schmoll, *Sanofi, Germany*
[P2.038]	**Physical exercise induces GPR120 modulation in muscle of obese and type 2 diabetes mice: The role of n3 fatty acid receptor** C.B. Veiga[1], B.M. Crisol*[1], R.C. Gaspar[1], G.P. Formigari[1], L.P. Moura[1], E.R. Ropelle[1], A.S. da Silva[2], J.R. Pauli[1], D.E. Cintra[1], *[1]University of Campinas, Brazil, [2]University of São Paulo, Brazil*
[P2.039]	**Effects of PGC-1α on aging and exercise training-induced regulation of mitochondrial ADP sensitivity**

	H. Jessen*, J.F. Halling, J.N. Meldgaard, A. Gudiksen, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.040]	**Role of metabolic stress in exercise-induced signaling and mRNA responses in skeletal muscle of endurance-trained men** M. Fiorenza*[1,2], T.P. Gunnarsson[1], M. Hostrup[1], F.M. Iaia[3], F. Schena[2], H. Pilegaard[1], J. Bangsbo[1], *[1]University of Copenhagen, Denmark, [2]University of Verona, Italy, [3]University of Milan, Italy*
[P2.041]	**Training enables a redistribution of perilipin proteins across an expanded skeletal muscle lipid droplet pool following acute free fatty acid elevation** S.O. Shepherd*[1], J.A. Strauss[1], T.A. Bosch[2], A. Bantle[2], Q. Wang[2], J.J. Dube[3], B. Goodpaster[3], D.G. Mashek[2], L.S. Chow[2], *[1]Liverpool John Moores University, UK, [2]Univesity of Minnesota, USA, [3]University of Pittsburgh, USA*
[P2.042]	**Exploring the mechanisms through which acute exercise affects transendothelial migration of lymphocytes in healthy and type 1 diabetes (T1D)** M. Curran*[1], J.P. Campbell[2], M. Drayson[3], P. Narendran[1], *[1]University of Birmingham, UK, [2]University of Bath, UK, [3]University of Birmingham, UK*
[P2.043]	**Treadmill inclination influences inflammation, corticosterone, skeletal muscle fiber type composition, and androgen and glucocorticoid receptors in overtrained mice** A.L. da Rocha[1], B.C. Pereira[1], G.R. Teixeira[2], A.P. Pinto[1], F.G. Frantz[1], L.L.K. Elias[1], A.S.R. Silva*[1], *[1]Sao Paulo University, Brazil, [2]Sao Paulo State University, Brazil*
[P2.044]	**Aerobic exercise training increases cardiac compliance** I. Heinonen*[1,2], O. Sorop[2], B. Van Dalen[2], R.C.I. Wüst[3,4], V.J. de Beer[2], Y. Octavia[2], R. van Duin[2], Y. Hoogstrate[2], A. Stubbs[2], L. Blonden[2], *[1]University of Turku, Finland, [2]Erasmus University Medical Center, The Netherlands, [3]VU University Medical Centre, The Netherlands, [4]University of Amsterdam, The Netherlands*
[P2.045]	**Acute physical exercise increases thermogenesis and decreases food intake through hypothalamic APPL1 protein in obese mice** V.R. Muñoz*, R.C. Gaspar, G.P. Formigari, B.M. Crisol, L. Lenhare, J.D. Botezelli, D.E. Cintra, L.P. de Moura, E.R. Ropelle, J.R. Pauli, *University of Campinas, Brazil*
[P2.046]	**Human type II muscle fibers exhibit higher expression of proteins in the mTOR pathway as compared to type I fibers** S. Edman*, K. Söderlund, E. Blomstrand, *The Swedish School of Sport and Health Sciences, Sweden*
[P2.047]	**Effects of autophagy inhibition on aging-induced regulation of mitochondrial respiration and oxidant emission in inducible muscle-specific PGC-1α knockout mice** J.F. Halling*, H.D. Bendixen, H. Jessen, J. Nøhr-Meldgaard, A. Gudiksen, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.048]	**Adipose Tissue Dicer Mediates Metabolic Adaptation in Response to Exercise Training in Mice** B.B. Brandão[1], S. Madsen[2], A. Rabiee[2], M. Oliverio[3], J.L. Branquinho[1], W.T. Festuccia[4], B.A. Guerra[1], S.G. Vienberg[2], J.T. Treebak[2], M.A. Mori*[1,5], *[1]Federal University of São Paulo, Brazil, [2]University of Copenhagen, Denmark, [3]Max Planck Institute for Metabolism Research, Germany, [4]University of São Paulo, Brazil, [5]University of Campinas, Brazil*
[P2.049]	**A novel forced exercise model in zebrafish to identify the molecular mechanisms of skeletal muscle remodeling** N. Umemoto*, L. Greif, S. Ekker, *Mayo Clinic, USA*
[P2.050]	**Physical exercise increase Rho-kinase in skeletal muscle, and improve glucose homeostasis in Fischer rats** R.C. Gaspar, V.R. Muñoz*, G.K. Kuga, R.M. Pereira, B.M. Crisol, S.C.B.R. Nakandakari, D.E. Cintra, L.P. de Moura, E.R. Ropelle, J.R. Pauli, *University of Campinas, Brazil*
[P2.051]	**Exercise modulates the lipidomic profile of circulating exosomes in cancer cachexia** C. Hiroux, D. Annibali, C. Poffé, P. Hespel, E. Berardi*, *KU Leuven, Belgium*
[P2.052]	**Muscle PGC-1α influences exercise-induced hepatic UPR in mice** C.M. Kristensen*, S. Ringholm, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.053]	**Exercise triggers arrhythmogenic right ventricular cardiomyopathy (ARVC) phenotype and genetic changes in mice hearts expressing a disease-causing mutated version of human *plakophilin-2* (*PKP2*)** E. Petra, F.M. Cruz, M. Roche-Molina, A. González-Guerra, C. Márquez-López, C. del Carmen-Roselló, J.A. Bernal*, *Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain*
[P2.054]	**Effect of intense training on running economy and single muscle fiber adaptations** C. Skovgaard*, J. Bangsbo, *University of Copenhagen, Denmark*
[P2.055]	**Combined exercise and caloric restriction promotes reduction in plasma TMAO and accompanying improvements in cardiometabolic risk indices Combined exercise and caloric restriction promotes reduction in plasma TMAO and accompanying improvements in cardiometabolic risk indices** J.P. Kirwan*, S. Malin, Z. Wang, S.L. Hazen, *Cleveland Clinic, USA*
[P2.056]	**Training state and fasting-induced pyruvate dehydrogenase regulation in human skeletal muscle** A. Gudiksen*, L. Bertholdt, T. Stankiewicz, J. Tybirk, J. Bangsbo, P. Plomgaard, H. Pilegaard, *University of Copenhagen, Denmark*
[P2.057]	**Beta$_2$-adrenergic stimulation augments muscle hypertrophic response to resistance training at the expense of oxidative capacity in young men** A.K. Lemminger*, S. Habib, J. Onslev, J. Bangsbo, M. Hostrup, *University of Copenhagen, Denmark*
[P2.058]	**LMCD1B: A novel regulator of skeletal muscle metabolism**

	D.M.S. Ferreira*[1], A.J. Cheng[1], D. Edsgärd[2], T. Chaillou[1], M. Porsmyr-Palmertz[1], P. da Silva[1], M. Izadi[1], L.Z. Agudelo[1], V. Martínez-Redondo[1], A.T. Petersson-Klein[1], *[1]Karolinska Institutet, Sweden, [2]Royal Institute of Technology (KTH), Sweden*
[P2.059]	**Beta$_2$-adrenergic stimulation modifies exercise training-induced changes in proteome signature of skeletal muscle in humans** M. Hostrup*[1,3], J. Onslev[1], G. Jacobson[2], R. Wilson[2], J. Bangsbo[1], *[1]University of Copenhagen, Denmark, [2]University of Tasmania, Denmark, [3]Bispebjerg Hospital, Denmark*
[P2.060]	**Physical Activity Defines The Relationships Among Skeletal Muscle Mitochondrial Energetics, Muscle Quality and Physical Function In Older Adults** G. Distefano[1], R.A. Standley[1], X. Zhang[1], E. Carnero[1], H.H. Cornnell[1], B.H. Goodpaster[1,2], P.M. Coen*[1,2], *[1]Translational Research Institute for Metabolism and Diabetes, Florida Hospital, USA, [2]Sanford Burnham Prebys Medical Discovery Institute, Lake Nona, USA*
[P2.061]	**Skeletal muscle exhibits enantioselective disposition of beta$_2$-adrenergic ligand rac-formoterol that is fibre type-specific in humans** K. Eibye*[1], G. Jacobson[2], M. Hostrup[1], *[1]University of Copenhagen, Denmark, [2]University of Tasmania, Denmark*
[P2.062]	**Liquid-liquid extraction of capillary blood droplets as a reliable method of measuring metabolic effects with exercise** T. Opialla*[1,2], B. Gollasch[1], P.H.J.L. Kuich[3], A. Busjahn[4], M. Boschmann[2], J. Kirwan[1], F.C. Luft[2], S. Kempa[3,1], *[1]Berlin Institute of Health, Germany, [2]Experimental and Clinical Research Center MDC/Charité, Germany, [3]Berlin Institute for Medical Systerms Biology, Germany, [4]HealthTwiSt Berlin, Germany*
[P2.063]	**Effect of endurance training on insulin resistance and TLR-signaling pathways in obese subjects** H. Zbinden-Foncea*, D. Valladares, I. Rada, L. Peñailillo, A. Contreras-Ferrat, *Universidad Finnis Terrae, Chile*
[P2.064]	**Comparison of the serum metabolic fingerprint of different exercise modes in men with and without metabolic syndrome** A. Siopi*[1], V. Manou[1], O. Deda[1], D. Komninou[2], S. Kellis[1], N. Raikos[1], K. Christoulas[1], G.A. Theodoridis[1], V. Mougios[1], *[1]Aristotle University of Thessaloniki, Greece, [2]Alexander Technological Educational Institute of Thessaloniki, Greece*
[P2.065]	**Activation of hypertrophy and inflammatory signalling pathways after repeated bouts of eccentric cycling in humans** D. Valladares*, L. Peñailillo, I. Rada, A. Contreras-Ferrat, H. Zbinden-Foncea, *Universidad Finnis Terrae, Chile*
[P2.066]	**Spreading of mitochondria membrane potential is involved in calcium-dependent increase oxygen consumption after skeletal muscle depolarization** A. Díaz-Vegas[2], D. Valladares[1], C. Hidalgo[2], G. Gherardi[3], D. DeStefani[3], C. Mammucari[3], E. Jaimovich[2], A. Contreras-Ferrat*[1], *[1]University Finis Terrae, Chile, [2]University of Chile, Chile, [3]University of Padova, Italy*
[P2.067]	**Insulin-dependent glucose uptake is regulated by mitochondrial calcium handling in skeletal muscle fibers** A. Díaz-Vegas*[2], C. Campos[2], D. Valladares[1], L. Peñailillo[1], H. Zbinden-Foncea[1], G. Rosales[2], E. Jaimovich[2], A. Contreras-Ferrat[1], *[1]University Finis Terrae, Chile, [2]University of Chile, Chile*
[P2.068]	**Effects of microRNA-34c* inhibition on cardiomyocytes hypertrophy** C. Nobrega, E.M. Oliveira*, *University of Sao Paulo, Brazil*
[P2.069]	**Is the energy equivalent of human intracellular lipid loss equal to gross changes in body weight, adipose tissue or fat mass?** N. Gwerder, R. Quintana*, *IE Faria Exercise Physiology Laboratory, USA*
[P2.070]	**Contractile C2C12 myotube model for studying exercise-induced release of extracellular vesicles** M. Guescini*, S. Maggio, P. Ceccaroli, G. Annibalini, F. Lucertini, V. Stocchi, *University of Urbino, Italy*
[P2.071]	**Exercise and IL-15 therapy attenuate hallmarks of skin aging by reducing cellular growth arrest** W. Wong*[1], E. Crane[1], M. Tarnopolsky[2], J. Crane[1], *[1]Northeastern University, USA, [2]McMaster University, Canada*
[P2.072]	**Mitochondrial morphological changes differ between skeletal muscle types and in the different phases of the menstrual cycle in response to acute exercise** D. Nakano*, S. Machida, *Juntendo, Japan*
[P2.073]	**High frequency resistance training does not cause skeletal muscle hypertrophy due to activation of proteolytic systems in rat skeletal muscle** J. Takegaki*[1], R. Ogasawara[2], A. Tsutaki[3], K. Nakazato[3], N. Ishii[1], *[1]The University of Tokyo, Japan, [2]Nagoya Institute of Technology, Japan, [3]Nippon Sport Science University, Japan*
[P2.074]	**Mitochondrial DNA variation dictates expressivity and progression of nuclear DNA mutations causing cardiomyopathy and exercise intolerance** M.J. McManus*, H.W. Chen, D.C. Wallace, *Children's Hospital of Philadelphia, USA*
[P2.075]	**SiRNA-induced silencing of hypoxia-inducible factor 3α (*HIF3α)* increases endurance capacity in rats** S. Drozdovska*[1], V. Dosenko[1], *[1]NUPESU, Ukraine, [2]Biph, Ukraine*
[P2.076]	**Contribution of β2-adrenoceptors for skeletal muscle mitochondrial function and morphology in response to aerobic exercise** V.A. Voltarelli[1], M. Coronado[2], L.G. Fernandes[1], J.C. Campos[1], P. Jannig[1], J.C.B. Ferreira[1], D. Bernstein[2], P.C. Brum*[1], *[1]University of Sao Paulo, Brazil, [2]Stanford University, USA*

[P2.077]	**Do alterations in mitochondrial remodeling underlie impaired recovery following disuse in old skeletal muscle?** W. Apró*[1], J.R. Dent[1], L.M. Baehr[2], D.W. West[3], K. Baar[2], S.C. Bodine[2], A. Philp[1], *[1]University of Birmingham, UK, [2]University of California Davis, USA, [3]University of Toronto, Canada*
[P2.078]	**Response of Pol II distribution to acute running in fast- and slow-twitch muscles of adult rats** R. Masuzawa*[1], D. Tagawa[2], K. Takemoto[2], I. Ohsawa[2], A. Watanabe[1], F. Kawano[1,2], *[1]Graduate School of Health Sciences, Matsumoto University, Japan, [2]School of Human Health Sciences, Matsumoto University, Japan*
[P2.079]	**Effects of regular exercise on body weight and body composition during muslim holiday season** H. Tutumlu*, Z. Goktas, *Hacettepe University, Turkey*
[P2.080]	**Aging induces SIRT1 S-nitrosylation in the hepatic tissue of mice: The reversal effect of exercise.** L. Lenhare, V.R.R. Silva, C.K. Katashima, T.O. Micheletti, J.D. Botezelli, R.C. Gaspar, R.S. Gaspar, V.R. Muñoz, B.M. Crisol*, E.R. Ropelle, *University of Campinas, Brazil*
[P2.081]	**Effects of long term running training on the responsiveness of genes to unloading in hindlimb muscles of rats** F. Kawano*[1], K. Nakamura[1], I. Ohsawa[1], R. Masuzawa[1], A. Watanabe[1], K. Nakata[1], *[1]Matsumoto University, Japan, [2]Osaka University, Japan*
[P2.082]	**Timing of acute exercise affects the regulation of metabolism in adipose tissue** M. Schönke*[1], A.L. Basse[2], S. Sato[3], P. Sassone-Corsi[3], J.T. Treebak[2], J.R. Zierath[1,2], *[1]Karolinska Institutet, Sweden, [2]Novo Nordisk Foundation Center for Basic Metabolic Research, Denmark, [3]University of California Irvine, USA*
[P2.083]	**Effect of lifelong exercise-training on age associated changes in p53 regulators** M.M. Dethlefsen*[1], J.F. Halling[1], H. Møller[1], P. Plomgaard[2], B. Regenberg[1], H. Pilegaard[1], *[1]University of Copenhagen, Denmark, [2]Rigshospitalet, Denmark*
[P2.084]	**Rev-erb co-regulates muscle regeneration via tethered interaction with the nf-y cistrome** R.D. Welch[1], C. Guo[1], M. Sengupta[1], K.J. Carpenter[1], N.A. Stephens[2], L.M. Sparks[2], S.R. Smith[2], J. Zhang[1], T.P. Burris[1], C.A. Flaveny*[1], *[1]Saint Louis University School of Medicine, USA, [2]Translational Research Institute for Metabolism and Diabetes, USA*
[P2.085]	**Pharmacological targeting of estrogen receptor-related receptors improves muscle metabolic function in vivo** C. Billon*, S. Bannerjee, A. Avdagic, A. Chatterjee, J.K. Walker, T.P. Burris, *St Louis University, School of Medicine, USA*
[P2.086]	**Exercise remodels small RNA expression and methylation of neurological gene hotspots in sperm** L.R. Ingerslev, I. Donkin, E. Andersen*, O. Fabre, S. Versteyhe, R. Barrès, *University of Copenhagen, Denmark*
[P2.087]	**Post-exercise skeletal muscle signalling responses to high-intensity steady-state exercise in the fed or fasted state** B. Stocks*, J.R. Dent, M. Zemp, J. Worthington, A. Philp, *University of Birmingham, UK*
[P2.088]	**Acetaminophen consumption alters the signaling and intracellular localization of mTOR in human skeletal muscle following resistance exercise** A. D'Lugos*[1], C. Fry[2], S. Patel[3], C. Carroll[3], J. Dickinson[1], *[1]Arizona State University, USA, [2]University of Texas Medical Branch, USA, [3]Purdue University, USA*
[P2.089]	**Short-term exercise training improves intestinal glucose uptake and gut microbiota profile in subjects with insulin resistance** K.K. Motiani*[1], M.C. Collado[2,3], J.J. Eskelinen[1], K. Virtanen[1], E. Löyttyniemi[1], S. Salminen[3], P. Nuutila[1], K.K. Kalliokoski[1], J.C. Hannukainen[1], *[1]University of Turku, Finland, [2]IATA-CSIC, Spain, [3]Turku University Hospital, -*
[P2.090]	**Myo-exosomes in health and disease** L. Ketscher*, J.L. Ruas, *Karolinska Institutet, Sweden*
[P2.091]	**Post-translational regulation of PGC-1α1 protein stability by HECTD1 and its role in metabolism** I. Cervenka*, A. Klein, M. Izadi, J. Ruas, *Karolinska Insitutet, Sweden*
[P2.092]	**Aerobic training remodels muscle lipid composition and improves intrinsic mitochondrial function in men with type 2 diabetes** M. Pino[1], N. Stephens[1], A. Eroshkin[2], A. Hodges[2], S. Smith[1,2], X. Han[2], B. Goodpaster[1,2], L. Sparks*[1,2], *[1]Translational Research Institute fro Metabolism and Diabetes, USA, [2]Sanford Burnham Prebys Medical Discovery Institute, USA*
[P2.093]	**High-intensity interval exercise preconditioning protects against doxorubicin mediated cardiotoxicity** S.S. Angadi*[1,3], C.L. Jarrett[1], T. Panknin[1], A. D'Lugos[1], T. Hale[2], R. Gonzales[2], C. Carroll[4], J.M. Dickinson[1,3], *[1]Arizona State University, USA, [2]University of Arizona - College of Medicine Downtown Phoenix, USA, [3]Mayo Clinic - Scottsdale, USA, [4]Purdue University, USA*
[P2.094]	**Estrogen receptor-β deficiency in skeletal muscle influences muscle mass and strength in female mice** Y. Tsuchiya*[1,3], D. Seko[1,3], Y. Kitajima[1], R. Fujita[1,3], I. Sakakibara[2], Y. Imai[2], Y. Ono[1], *[1]Nagasaki University, Japan, [2]Ehime University, Japan, [3]Japan Society for the Promotion of Science, Japan*
[P2.095]	**Aerobic and resistance exercise elicit unique transcriptome responses in human skeletal muscle** J. Dickinson*[1], A. D'Lugos[1], M. Naymik[2], M. De Both[2], A. Siniard[2], A. Wolfe[2], M. Huentelman[2], C. Carroll[3], *[1]Arizona State University, USA, [2]Translational Genomics Research Institute, USA, [3]Purdue University, USA*
[P2.096]	**Effects of difference in exercise intensity under the same energy consumption on the phospholipid composition in muscle** S. Kakehi*, Y. Tamura, T. Funayama, H. Kaga, Y. Furukawa, R. Kawamori, H. Watada, *Juntendo University, Japan*
[P2.097]	**Acute exercise reveals discrete differences in skeletal muscle immunometabolic signalling in healthy and type 2**

	diabetic individuals N.J. Pillon*, A. Krook, J.R. Zierath, *Karolinska Institutet, Sweden*
[P2.098]	**Impact of different exercise programs on body fat mobilization in DUhTP mice** J. Brenmoehl*[1], J. Buchholtz[1], D. Ohde[1], C. Walz[1], J. Schultz[2], A. Tuchscherer[1], M. Langhammer[1], A. Höflich[1], *[1]Leibniz Institute for farm animal biology, Germany, [2]University of Rostock, Germany*
[P2.099]	**Knockout of the stress kinase S6k1 mimics the effect of chronic endurance exercise on glucose tolerance and enhances running performance** C. Binsch*[1,2], T. Jelenik[1,2], M. Dille[1,2], A. Pfitzer[1], S. Müller-Lühlhoff[1], S. Karpinski[1], A. Chadt[1,2], M. Roden[1,2], T.R. Castaneda[1], H. Al-Hasani[1,2], *[1]German Diabetes Center, Germany, [2]German Center for Diabetes Research, Germany*
[P2.100]	**Proteomic analysis of skeletal muscle reveals estrogen as a key regulator of muscle signaling in women** E.K. Laakkonen*[1], R. Soliymani[2], S. Karvinen[1,3], P. Rintala[1], J. Kaprio[2], U.M. Kujala[1], M. Baumann[2], S. Sipilä[1], V. Kovanen[1], M. Lalowski[2], *[1]University of Jyväskylä, Finland, [2]University of Helsinki, Finland, [3]University of Minnesota, USA*
[P2.101]	**Development of an in vitro model to study skeletal muscle/adipose tissue crosstalk during exercise** L. Dollet*, N. Pillon, J. Zierath, A. Krook, *Karolinska Institutet, Sweden*
[P2.102]	**Effects of exercise training on the fate of dietary tryptophan supplementation** P. Valente-Silva*, D.M.S. Ferreira, J.C. Correia, I. Cervenka, J.L. Ruas, *Karolinska Institutet, Sweden*
[P2.103]	**Family Feud: Chronically elevated PGC-1α3 in skeletal muscle impairs exercise performance** V. Martinez-Redondo*, W. Jonsson, I. Cervenka, J.C. Correia, M. Porsmyr-Palmertz, P. da Silva, D.M.S. Ferreira, J.L. Ruas, *Karolinska Institutet, Sweden*
[P2.104]	**Fecal microbiota transplantation(FMT) from anaerobic-exercised rats improved metabolic phenotype in type 2 diabetic model, ZDF rats** J.K. Seong*[1], Y. Son[1], W. Song[1], J.W. Bae[2], W.R. Kang[2], *[1]Seoul National Univeristy, Republic of Korea, [2]Kyung Hee University, Republic of Korea*
[P2.105]	**Tetraplegia: Adaptive response to stationary armcrank pedaling exercise, comparing different lesion levels in persons with a tetraplegia** S. Sinz*, G. Brizuela, *Universidad de Valencia, Spain*