

Poster Program

**Poster Session I
Monday, July 13, 13:40-15:30**

[P1.1.01]	Acute high-intensity interval cycling induces ryanodine receptor type 1 fragmentation D. Neyroud* ^{1,2} , N. Ivarsson ³ , A. Cheng ³ , J. Ochala ⁴ , T. Venckunas ⁵ , B. Kayser ^{1,2} , H. Westerblad ³ , N. Place ¹ , ¹ University of Lausanne, Switzerland, ² University of Geneva, Switzerland, ³ Karolinska Institutet, Sweden, ⁴ King's College of London, UK, ⁵ Lithuanian Sports University, Lithuania
[P1.1.02]	Glycerol 3-phosphate dehydrogenase 1 deficiency enhances exercise capacity due to increased lipid oxidation during strenuous exercise T. Sato* ¹ , A. Morita ¹ , N. Mori ² , S. Miura ¹ , ¹ University of Shizuoka, Japan, ² Osaka Prefecture University, Japan
[P1.1.03]	Metabolomic analysis of the skeletal muscle of mice overexpressing PGC-1α N. Senoo ¹ , Y. Hatazawa ^{2,3} , M. Tadaishi ⁴ , Y. Ogawa ² , O. Ezaki ⁵ , Y. Kamei ³ , S. Miura* ¹ , ¹ University of Shizuoka, Japan, ² Tokyo Medical and Dental University, Japan, ³ Kyoto Prefectural University, Japan, ⁴ Tokyo University of Agriculture, Japan, ⁵ Showa Women's University, Japan
[P1.1.04]	Vitamin D modulates inflammation and immunological responses following prolonged physical exercise A.M. Mironas* ¹ , M.B. Beckmann ¹ , G.D. Davison ² , L.A.J.M. Mur ¹ , A.W.J. Jones ¹ , ¹ Aberystwyth University, UK, ² University of Kent, UK
[P1.1.05]	Functional consequences of cardiac hypertrophy caused by deficiency in cytosolic or mitochondrial creatine kinase A.H. Maass, <i>University Medical Center Groningen, The Netherlands</i>
[P1.1.06]	The effect of warm up intensity on subsequent exercise tolerance at VO₂max in runners K.T. Dinglasan, D. Parker, R. Quintana*, <i>California State University, USA</i>
[P1.1.07]	Exercise acts as fat burning pill if it is taken before breakfast K. Iwayama ¹ , Y. Nabekura ¹ , R. Kurihara ¹ , R. Kawabuchi ¹ , I. Park ¹ , H. Ogata ¹ , A. Ogawa ¹ , M. Kayaba ¹ , A. Ando ¹ , K. Tokuyama* ¹ , ¹ University of Tsukuba, Japan, ² Kao Corporation, Japan
[P1.1.08]	Fibro-adipogenic progenitors in response to acute and prolonged resistance exercise. J. Farup* ¹ , U.R. Mikkelsen ^{2,3} , J. Bjerre ¹ , S.K. Rahbek ¹ , F. de Paoli ¹ , M.H. Vendelbo ¹ , P. Schjerling ^{2,3} , K. Vissing ¹ , ¹ Aarhus University, Denmark, ² Copenhagen University, Denmark, ³ Bispebjerg Hospital, Denmark
[P1.1.09]	Exploring skeletal muscle plasticity by single fiber proteomics. M. Murgia* ^{1,2} , N. Nagaraj ¹ , A.S. Deshmukh ⁴ , P. Cancellara ² , C. Reggiani ² , S. Schiaffino ³ , M. Mann ^{1,4} , ¹ Max-Planck-Institute of Biochemistry, Germany, ² University of Padova, Italy, ³ Venetian Institute of Molecular Medicine, Italy, ⁴ Novo Nordisk Foundation Center for Protein Research, Denmark
[P1.1.10]	Effect of BCAA supplementation in rat skeletal muscle with exercise T. Sato* ¹ , T. Watanabe ² , S. Igawa ³ , M. Miyazaki ⁴ , K. Seki ⁴ , ¹ Jissen Women's University, Japan, ² Hachinohe Gakuin University, Japan, ³ Nippon Sport Science University, Japan, ⁴ Waseda University, Japan
[P1.1.11]	Activation of autophagy in human skeletal muscle is dependent on exercise intensity and AMPK activation C. Schwalm* ¹ , C. Jamart ¹ , N. Benoit ¹ , D. Naslain ¹ , C. Prémont ¹ , J. Prével ¹ , R. Van Thienen ² , L. Deldicque ² , M. Francaux ¹ , ¹ Institute of Neuroscience, Université catholique de Louvain, Belgium, ² Katholieke Universiteit Leuven, Belgium
[P1.1.12]	Fat gain with physical detraining correlates with the increased glucose oxidation in subcutaneous and retroperitoneal white adipose tissue in rats R.A.L. Sertié*, S. Andreotti, A.R.G. Proença, R.O. Caminhotto, P. Nunes, N.C. Castro, G.B. Reis, A. Vianna, F. Lima, <i>University of São Paulo, Brazil</i>
[P1.1.13]	An acute bout of aerobic exercise modulates levels of specific miRNAs in serum and cerebrospinal fluid of trained individuals B. Ukropcova* ^{1,2} , M. Balaz ¹ , O. Ziak ² , S. Sutovsky ³ , J. Ukropec ¹ , ¹ Institute of Experimental Endocrinology SAS, Slovakia, ² Faculty of Medicine, Comenius University, Slovakia, ³ Faculty of Medicine CU and University Hospital, Slovakia
[P1.1.14]	Exercise training decreases mitochondrial function and oxidative capacity in brown adipose tissue (BAT) K.I. Stanford*, H.P.M.M. Lauritzen, M.D. Lynes, K.L. Townsend, Y-H. Tseng, L.J. Goodyear, <i>Joslin Diabetes Center, USA</i>
[P1.1.15]	Modulation of autophagy signaling with resistance exercise and protein ingestion following short-term energy deficit W.J. Smiles* ¹ , J.L. Areta ¹ , V.G. Coffey ³ , S.M. Phillips ⁴ , D.R. Moore ⁵ , T. Stellingwerff ⁶ , L.M. Burke ⁷ , J.A. Hawley ^{1,2} , D.M. Camera ¹ , ¹ Australian Catholic University, Australia, ² Liverpool John Moores University, UK, ³ Queensland University of Technology, Australia, ⁴ McMaster University, Canada, ⁵ University of Toronto, Canada, ⁶ Canadian Sport Institute, Canada, ⁷ Australian Institute of Sport, Australia

[P1.1.16]	Intracerebroventricular injection of ghrelin decreases wheel running activity in rats Y. Miyatake ^{*1} , T. Shiuchi ¹ , C. Azuma ¹ , R. Tsutsumi ¹ , N. Harada ¹ , H. Sei ¹ , Y. Minokoshi ² , K. Gotoh ³ , Y. Nakaya ¹ , H. Sakaue ¹ , ¹ Tokushima University, Japan, ² National Institute for Physiological Sciences, Japan, ³ Oita University, Japan
[P1.1.17]	Modulation of microRNA expression following concurrent exercise in human skeletal muscle D.M. Camera ^{*1,2} , J.N. Ong ¹ , V.G. Coffey ³ , J.A. Hawley ^{1,4} , ¹ Australian Catholic University, Australia, ² RMIT University, Australia, ³ Bond University, Australia, ⁴ Liverpool John Moores University, UK
[P1.1.18]	Hemodynamic response to unilateral eccentric exercise with and without lactotripeptides ingestion in healthy young men S-G. Ra ^{*1,2} , K. Tagawa ¹ , Y. Choi ^{1,2} , S. Maeda ¹ , ¹ University of Tsukuba, Japan, ² Japan Society for the Promotion of Science, Japan
[P1.1.19]	Effect of complex and compound exercises on satellite cell activation in weight lifters C.H. Lim ^{*1} , L.T. Suong ² , V.V. Bao ² , D.H. Viet ² , L.Q. Phuong ² , H.L. Quan ¹ , H.J. Yang ¹ , C.K. Kim ¹ , ¹ Korea National Sport University, Republic of Korea, ² Hochiminh City University of Sport, Viet Nam
[P1.1.20]	Vitamin C and E supplementation counteracts activation of PPAR target genes upon exercise M. Hoene ^{*1} , J. Li ² , X. Zhao ² , Y. Li ² , H.U. Häring ^{1,3} , R. Lehmann ^{1,3} , G. Xu ² , C. Weigert ^{1,3} , ¹ University Hospital Tübingen, Germany, ² Dalian Institute of Chemical Physics, China, ³ German Center for Diabetes Research (DZD), Germany
[P1.1.21]	Small heat shock proteins (sHSPs) specific markers of exercise-induced muscle damage and/or adaptation to eccentric exercise S. Hody [*] , A. Simonet, Z. Lacrosse, P. Leprince, J.L. Croisier, B. Rogister, <i>University of Liege, Belgium</i>
[P1.1.22]	Aerobic exercise avoids non-alcoholic steatohepatitis but promotes liver inflammation in PPAR-alpha knockout mice H. Batatinha ¹ , E. Lima ¹ , A. Teixeira ¹ , C. Souza ¹ , L. Biondo ¹ , L. Silveira ² , F. Lira ² , J. Rosa-Neto ^{*1} , ¹ University of Sao Paulo, Brazil, ² University of the state of Sao Paulo, Brazil
[P1.1.23]	High intensity exercise induced redox signalling potentiates insulin signalling and sensitivity in obese middle-aged men L. Parker ^{*1} , N.K. Stepto ¹ , C. Shaw ² , F.R. Serpiello ¹ , M. Anderson ¹ , D.L. Hare ³ , I. Levinger ¹ , ¹ Victoria University, Australia, ² Deakin University, Australia, ³ University of Melbourne, Australia
[P1.1.24]	Gene expression analysis of hyperactive mutant SPORTS rat T. Horiguchi, K. Miyoshi, A. Tanimura, H. Hagita, Y. Miyatake, H. Sakaue, T. Noma [*] , <i>Tokushima University Graduate School, Japan</i>
[P1.1.25]	The effects of resistance exercise on muscle ribosome biogenesis is blunted by cold water immersion V.C. Figueiredo ^{*1} , L.A. Roberts ³ , J.F. Markworth ¹ , J.M. Peake ² , D. Cameron-Smith ¹ , ¹ University of Auckland, New Zealand, ² Queensland University of Technology, Australia, ³ University of Queensland, Australia
[P1.1.26]	Metabolic adaptations in marathon mice selected for high treadmill performance from microRNAs to metabolic pathway analysis D. Ohde [*] , J. Brenmoehl, C. Walz, A. Hoeflich, <i>Leibniz-Institute for Farm Animal Biology (FBN), Germany</i>
[P1.1.27]	Decreased spontaneous activity in AMPK muscle specific kinase dead mice is not caused by changes in brain dopamine content L.L.V. Møller [*] , L. Sylow, C.R. Gøtzsche, S.H. Christiansen, P. Weikop, B. Kiens, D.P.D. Woldbye, E.A. Richter, <i>University of Copenhagen, Denmark</i>
[P1.1.28]	CD38 expression is decreased after short-term aerobic exercise training and regulates glucose and lipid metabolism in human skeletal muscle B. Egan ^{*2,1} , R.J.O. Sjogren ² , D. Gray Lassiter ² , H. Karlsson ² , N. Miyoshi ² , D.J. O'Gorman ³ , J.R. Zierath ² , ¹ University College Dublin, Ireland, ² Karolinska Institutet, Sweden, ³ Dublin City University, Ireland
[P1.1.29]	An acute bout of aerobic exercise has a positive effect on metabolic flexibility prolonged over 16 hours post exercise B.P. Carson ^{*1} , J.A. Higgins ¹ , P.C. Tully ¹ , G. Boland ¹ , C. Seoige ¹ , G.F. Bellissimo ² , J.E. Edwards ² , ¹ University of Limerick, Ireland, ² Central Michigan University, USA
[P1.1.30]	The acute and chronic effect of nitrate on contraction efficiency of isolated mouse skeletal muscle S.S. Betteridge ¹ , G.K. McConell ^{*1} , C.J. Barclay ² , ¹ Victoria University, Australia, ² Griffith University, Australia
[P1.1.31]	Effects of different exercise types on the metabolic fingerprint of men with and without metabolic syndrome A. Siopi [*] , V. Manou, O. Deda, D. Palachanis, S. Kellis, G. Theodoridis, V. Mougios, <i>Aristotle University of Thessaloniki, Greece</i>
[P1.1.32]	Skeletal muscle IL-6 regulates hepatic glucose metabolism during prolonged exercise L. Bertholdt [*] , A. Gudiksen, C. Schwartz, J.G. Knudsen, H. Pilegaard, <i>University of Copenhagen, Denmark</i>

[P1.1.33]	Loss of skeletal muscle IL-6 alters metabolic regulation in adipose tissue post exercise J.G. Knudsen ^{*1,3} , L. Bertholdt ^{1,3} , C. Schwartz ^{1,3} , P. Overby ^{1,3} , A. Gudiksen ^{1,3} , H. Pilegaard ^{1,3} , ¹ University of Copenhagen, Denmark, ² August Krogh Centre, Denmark, ³ Centre of Inflammation and Metabolism, Denmark
[P1.1.34]	Impact of muscle PGC-1α on exercise training-induced effects in adipose tissue I.F. Villesen*, J.F. Halling, M. Federspiel, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.35]	IL-6 modulates regulation of pyruvate dehydrogenase during acute prolonged exercise A. Gudiksen*, C. Schwartz, L. Bertholdt, J.G. Knudsen, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.36]	Burn and disuse with resistance exercise effects on Fibroblast Growth Factor-21 and eNOS in rats L.A. Baer ^{*1} , J. Song ² , K.I. Stanford ³ , S.E. Wolf ² , C.E. Wade ¹ , ¹ University of Texas Health Science Center-Houston, USA, ² University of Texas Southwestern Medical Center, USA, ³ Harvard Medical School and Joslin Diabetes Center, USA
[P1.1.37]	Regulation of substrate utilization following exercise in muscle specific IL-6 knockout mice C. Schwartz*, A. Gudiksen, L. Bertholdt, J.G. Knudsen, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.38]	Activating transcription factor 3 affects chemokine expression in mouse skeletal muscle R. Fernández-Verdejo ^{*1} , A. Vanwynsberghe ¹ , A. Essaghir ¹ , J.B. Demoulin ¹ , L. Deldicque ² , M. Francaux ¹ , ¹ Université Catholique de Louvain, Belgium, ² KU Leuven, Belgium
[P1.1.39]	Exercise reduces microgliosis and astrogliosis differently in male and female mice R.Z. Tom*, C.X. Yi, S.C. Schriver, M.H. Tschöp, S.M. Hofmann, <i>Helmholtz Zentrum, Germany</i>
[P1.1.40]	PGC-1α is required for mitochondrial adaptations to low but not high intensity exercise training N. Brandt*, M.M. Nielsen, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.41]	PGC-1α regulates exercise-induced hepatic ER stress in mice C.M. Kristensen*, S. Ringholm, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.42]	Intrahepatic lipid accumulation and metabolism after voluntary exercise and diet change intervention in diet-induced obese mice R. Rinnankoski-Tuikka*, J.J. Hulmi, H. Reunanen, H. Kainulainen, <i>University of Jyväskylä, Finland</i>
[P1.1.43]	Impact of skeletal muscle PGC-1α on exercise training-induced adaptations in mouse liver M.A. Federspiel*, J.F. Halling, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P1.1.44]	Mechanosensitivity of myoblasts: Effect of pulsating fluid shear stress on mediators of proliferation, differentiation and self-renewal A. De Boer, A.D. Bakker, C. Offringa, J. Klein-Nulend, R.T. Jaspers*, <i>MOVE Research Institute, The Netherlands</i>
[P1.1.45]	The effect of treadmill exercise on lipid peroxidation and SOD in the hippocampus in Zucker Diabetic(ZDF) rat J.K. Seong*, J.W. Kim, Y.S. Yoon, <i>Seoul National University, Republic of Korea</i>
[P1.1.46]	Exercise induces hippocampal BDNF through a PGC-1α/FND5 pathway C.D. Wrann ^{*1,2} , K.K. Gerber ^{1,2} , J.P. White ¹ , J. Salogiannis ¹ , D. Ma ³ , J.D. Lin ³ , M.E. Greenberg ¹ , B.M. Spiegelman ^{1,2} , ¹ Dana-Farber Cancer Institute, USA, ² Harvard Medical School, USA, ³ University of Michigan Medical Center, USA
[P1.1.47]	Acute exercise impacts kynurenine metabolism in type 2 diabetic and healthy people J.M. Mudry*, L.Z. Agudelo, J.L. Ruas, S. Erhardt, K. Caidahl, J.R. Zierath, A. Krook, H. Wallberg-Henriksson, <i>Karolinska Institutet, Sweden</i>
[P1.1.48]	PGC-1α mediated changes of phospholipids profile in exercise trained skeletal muscle N. Senoo ^{*1} , N. Miyoshi ¹ , N. Goto-Inoue ² , A. Morita ¹ , N. Sawada ^{3,4} , J. Matsuda ⁵ , Y. Ogawa ⁴ , M. Setou ⁶ , Y. Kamei ⁷ , S. Miura ¹ , ¹ University of Shizuoka, Japan, ² Nihon University, Japan, ³ University of Chicago, USA, ⁴ Tokyo Medical and Dental University, Japan, ⁵ National Institute of Biomedical Innovation, Japan, ⁶ Hamamatsu University School of Medicine, Japan, ⁷ Kyoto Prefectural University, Japan
[P1.1.49]	Effects of cold water swimming on energy expenditure N.J. Rehrer*, M.J. O'Neill, S. Bruin, T.W.D. Jowett, J.D. Cotter, <i>University of Otago, New Zealand</i>
[P1.1.50]	Dietary supplementation with unsaturated fatty acids enhances the effects of exercise training on metabolic syndrome patients J.F. Ortega*, N. Hamouti, V.E. Fernández-Elías, A. Sánchez-Roncero, R.C.R. Martín-Doimeadios, F.J.G. Bernardo, R. Mora-Rodríguez, <i>University of Castilla-La Mancha, Spain</i>
[P1.1.51]	Pulmonary vein thromboses can inhibit PD-1 antibody therapy, which could be improved by warfarin, dabigatran and exercise H. Takeuchi ^{1,2} , ¹ Nagasaki Tomie Hospital, Japan, ² Takeuchi Gene Center Ltd, Japan
[P1.1.52]	Blunted regulation of adipocyte lipolysis by exercise-induced atrial natriuretic peptide in obese diabetic men K. Verboven ^{*1,2} , J.W.E. Jocken ¹ , D. Hansen ^{2,3} , E.E. Blaak ¹ , ¹ Maastricht University Medical Centre, The Netherlands, ² Hasselt University, Belgium, ³ Jessa Hospital Hasselt, Belgium

[P1.1.53]	<p>Synergistic effects of mild exercise and astaxanthin supplementation on hippocampal-dependent spatial memory and neurogenesis in adult mice</p> <p>J.S. Yook*¹, M. Okamoto¹, M.C. Lee¹, J. Shibato¹, T. Matsui¹, R. Rakwal¹, M. Yassa², H. Soya¹, ¹University of Tsukuba, Japan, ²University of California, Irvine, USA</p>
[P1.1.54]	<p>Cardiac phosphoproteome response to a graded exercise test of peak oxygen uptake (VO₂peak)</p> <p>J.G. Burniston*¹, H. Guo², R. Isserlin², A. Emili², ¹Liverpool John Moores University, UK, ²University of Toronto, Canada</p>
[P1.1.55]	<p>Obese subjects are resistant to insulin antilipolytic action during exercise</p> <p>V. Stich*¹, F. Crampes², M. Siklova¹, E. Czudkova¹, J. Kracmerova¹, C. Moro², I. De Glisezinski², ¹Charles University, Czech Republic, ²Institute of Metabolic and Cardiovascular Diseases, France</p>
[P1.1.56]	<p>Key regulators of muscle metabolic adaptation are robustly and equally induced by acute exercise in type 2 diabetic and weight-matched healthy individuals</p> <p>R. Sabaratnam*¹, A. Pedersen¹, T. Eskildsen¹, J. Kristensen¹, J. Wojtaszewski², K. Højlund¹, ¹University of Southern Denmark, Denmark, ²University of Copenhagen, Denmark</p>
[P1.1.57]	<p>The long-term effectiveness of resistance exercise combined with intra-dialytic oral nutrition on forearm skeletal muscle protein homeostasis in maintenance hemodialysis patients</p> <p>S.M. Deger, J. Gamboa, C.D. Ellis, C. Booker, F. Sha, T.A. Ikizler*, <i>Vanderbilt University Medical Center, USA</i></p>
[P1.1.58]	<p>Effect of a weight loss diet concurrent or following aerobic interval training on the metabolic syndrome: A randomized control trial</p> <p>R. Mora-Rodriguez*¹, J.F. Ortega¹, N. Hamouti¹, V.E. Fernandez-Elias¹, F. Morales-Palomo¹, M. Ramirez-Jimenez¹, V. Guio de Prada^{1,2}, R.K. Nelson³, ¹University of Castilla-La Mancha, Spain, ²The University of Toledo Medical Center, Spain, ³Central Michigan University, USA</p>
[P1.1.59]	<p>Systemic insulin sensitivity and skeletal muscle insulin signaling in rats selected for low and high aerobic capacity</p> <p>R.T. Morris*¹, K. Fulghum¹, S.L. Britton², L.G. Koch², S. Zimmerman¹, B. Timson¹, ¹Missouri State University, USA, ²University of Michigan, USA</p>
[P1.1.60]	<p>A comprehensive map of the adaptive transcriptional alternations to endurance exercise in skeletal muscle and non muscle organs</p> <p>A. Georgiadi*, M. Xiaochuan, M. Bosma, M. Johansson, J.O. Westholm, P. Boström, <i>Karolinska Institute, Sweden</i></p>
[P1.1.61]	<p>Increased aerobic capacity is responsible for enhanced hippocampal neurogenesis and cognition</p> <p>C.M. Tognoni*¹, E.A. Babb², J.M. Saikia³, L.G. Koch⁴, S.L. Britton⁴, L.W. Jones⁵, C.L. Williams¹, ¹Duke University, USA, ²University of North Carolina, USA, ³University of California, USA, ⁴University of Michigan, USA, ⁵Sloan-Kettering Cancer Center, USA</p>
[P1.1.62]	<p>Vitamin D as the modifying factor of the effectiveness of the cold water immersion-supported recovery process of professional athletes</p> <p>E. Ziemann*¹, D.J. Flis², J. Jaworska¹, K. Micielska¹, K. Witek³, P. Habrat⁴, R. Laskowski¹, ¹Gdansk University of Physical Education and Sport, Poland, ²Medical University of Gdansk, Poland, ³Institute of Sport, Poland, ⁴Warsaw School of Social Sciences and Humanities, Poland</p>
[P1.1.63]	<p>Endurance exercise induces REDD1 expression in rat skeletal muscle</p> <p>T. Murakami*, M. Hayasaka, H. Tsunekawa, M. Yoshinaga, <i>Shigakkan University, Japan</i></p>
[P1.1.64]	<p>Voluntary exercise by obese mothers prior to and during pregnancy at a modest level has beneficial effects in offspring</p> <p>M.J. Morris*, M. Raipuria, H. Bahari, <i>UNSW, Australia</i></p>
[P1.1.65]	<p>Early signaling events involved in muscle remodeling after exercise</p> <p>F. Solagna^{1,2}, K. Dyar³, K. Vissing⁴, M. Krüger⁵, I. Moretti^{1,2}, B. Blaauw*^{1,2}, ¹University of Padova, Italy, ²Venetian Institute of Molecular Medicine, Italy, ³Helmholtz-Zentrum München, Germany, ⁴Aarhus University, Denmark, ⁵University of Cologne, Germany</p>

Poster Session II
Tuesday, July 14, 13:00-14:30

BROWNING OF WHITE FAT	
[P2.1.01]	Enhanced browning of white adipose tissue in ahnK KO mice J.K. Seong*, J.H. Shin, Y.N. Kim, I.Y. Kim, S.H. Lee, J.Y. Oh, <i>Seoul National University, Republic of Korea</i>
[P2.1.02]	MKK6 signaling control browning of white fat and contributes to obesity and insulin resistance N. Matesanz ¹ , E. Bernardo ¹ , S. Pérez-Sieira ³ , M.E. Rodríguez-Andrés ¹ , L. Hernández ² , M.V. Montalvo ¹ , F. Centeno ⁴ , M. Marcos ² , R. Nogueiras ³ , G. Sabio* ¹ , ¹ Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III, Spain, ² Hospital Universitario de Salamanca, Spain, ³ University of Santiago de Compostela-Instituto de Investigación Sanitaria, Spain, ⁴ University of Extremadura, Spain
[P2.1.03]	Exercise-induced myokines impact on white fat cell metabolism in vitro C. Laurens* ^{1,2} , K. Louche ^{1,2} , V. Bourlier ^{1,2} , D. Langin ^{1,2} , C. Moro ^{1,2} , ¹ Inserm UMR1048, Institute of Metabolic and Cardiovascular Diseases, France, ² Paul Sabatier University, France
[P2.1.04]	UCP3-related changes in brown and brite/beige adipose tissues in cold-acclimated mice I.G. Shabalina*, A.V. Kalinovich, A. Pauter, N. Petrovic, B. Cannon, J. Nedergaard, <i>Stockholm University, Sweden</i>
[P2.1.05]	Modulation of admsc with beneficial effect on thermogenesis and adipokines expression D.H. Vargas*, J.J. Duque, J.M. Carulla, S. Ramirez, W. Rosales, F. Lizcano, <i>Universidad de La Sabana, Colombia</i>
EXERCISE AND AGING	
[P2.2.01]	Mechanisms influencing lifetime-apex VO_{2max} may not control its decline R.G. Toedebusch, G.N. Rueggsegger, F.W. Booth*, <i>University of Missouri, USA</i>
[P2.2.02]	Dicer function in adipose tissue is essential to the adaptive metabolic effects of exercise in mice B.B. Brandão* ¹ , A. Marins ² , B.A. Guerra ¹ , M.A. Mori ¹ , ¹ Federal University of São Paulo, Brazil, ² FSU College of Medicine Graduate, USA
[P2.2.03]	Exercise training protects against aging-induced mitochondrial fragmentation in mouse skeletal muscle in a PGC-1α dependent manner J.F. Halling*, S. Ringholm, M.M. Nielsen, J. Olesen, C. Prats, H. Pilegaard, <i>University of Copenhagen, Denmark</i>
[P2.2.04]	Protective effects of exercise on optic nerve survival, structure and function after injury V. Chrysostomou*, I.A. Trounce, J.G. Crowston, <i>Centre for Eye Research Australia, University of Melbourne, Australia</i>
[P2.2.05]	Genetic background, adulthood physical activity and lifespan S.M. Karvinen* ¹ , K. Waller ¹ , M. Silvennoinen ¹ , L.G. Koch ² , S.L. Britton ² , J. Kaprio ^{3,4} , H. Kainulainen ¹ , U. Kujala ¹ , ¹ University of Jyväskylä, Finland, ² University of Michigan Medical School, USA, ³ University of Helsinki, Finland, ⁴ National Institute for Health and Welfare, Finland
[P2.2.06]	Endurance training improves insulin-induced plasma lactate and skeletal muscle PDH phosphorylation in aged individuals L.A. Consitt* ¹ , G. Saxena ¹ , A. Saneda ¹ , J.A. Houmard ² , ¹ Ohio University, USA, ² East Carolina University, USA
EXERCISE AND EPIGENETICS	
[P2.3.01]	Different exercise modalities have distinct effects on the transcriptome profile in the male rat femoral diaphysis D.M. Sontam* ^{1,2} , E.C. Firth ^{1,2} , P. Tsai ¹ , M.H. Vickers ^{1,2} , J.M. O'Sullivan ^{1,2} , ¹ University of Auckland, New Zealand, ² Gravida, New Zealand
[P2.3.02]	Transgenerational inheritance of skeletal muscle mitochondrial function and endurance performance capacity R. Freitas-Dias, J.M. Costa Jr., E.M. Carneiro, C.C. Zoppi*, <i>University of Campinas, Brazil</i>
[P2.3.03]	Exercise and genome-wide histone modifications in human skeletal muscle M. Hargreaves* ¹ , M. Flores-Opazo ¹ , A. Garnham ² , M. Ziemann ³ , K.N. Harikrishnan ³ , I. Khurana ³ , A. Kapsi ³ , H. Rafehi ³ , A. El-Osta ³ , ¹ The University of Melbourne, Australia, ² Deakin University, Australia, ³ Baker IDI Heart & Diabetes Institute, Australia
[P2.3.04]	A novel transcription factor in the regulation of macrophage polarisation A.J. Knights* ¹ , R.C.M. Pearson ¹ , A.P.W. Funnell ¹ , K.G.R. Quinlan ¹ , K.S. Bell-Anderson ² , M. Crossley ¹ , ¹ UNSW, Australia, ² University of Sydney, Australia
[P2.3.05]	Sarcopenia and aspartic acid magnesium S. Yamada*, E. Kizaki, A. Ozeki, M. Nakagawa, H. Fujita, <i>Graduate School of Human Life Science Jissen Women's University, Japan</i>

[P2.3.06]	Histone deacetylase 4 (HDAC4) regulates exercise induced adaption of cardiac metabolism and calcium handling L.H. Lehmann*, M. Mollova, D. Finke, M. Völkers, H.A. Katus, J. Backs, <i>University Hospital of Heidelberg, Department of Cardiology, Germany</i>
[P2.3.07]	DNA methylation regulates exercise-induced gene expression in human white adipose tissue O. Fabre ¹ , I. Donkin ¹ , L.R. Ingerslev ¹ , J.R. Zierath ^{1,2} , R. Barrès ¹ , ¹ <i>The Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health Sciences, University of Copenhagen, Denmark</i> , ² <i>Karolinska Institute, Sweden</i>
[P2.3.08]	PCOS is characterised by a specific epigenetic signature in peripheral blood mononuclear cells D.S. Hiam ¹ , D. Simar ² , A.J. Trewin ¹ , H. Teede ³ , N.K. Stepto ¹ , ¹ <i>Victoria University, Australia</i> , ² <i>University of New South Wales, Australia</i> , ³ <i>Monash University, Australia</i>
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[P2.4.01]	Skeletal muscle AMPK and ACC2 S212 phosphorylation is not required for fatty acid oxidation during exercise H.M. O'Neill ^{1,2} , J.S. Lally ¹ , S. Galic ² , T. Pulinilkunnil ⁴ , J.R. Dyck ⁴ , B.J. Van Denderen ² , B.E. Kemp ² , G.R. Steinberg ^{1,2} , ¹ <i>McMaster University, Canada</i> , ² <i>St. Vincent's Institute of Medical Research and Department of Medicine, University of Melbourne, Australia</i> , ³ <i>Bond University, Australia</i> , ⁴ <i>University of Alberta, Canada</i>
[P2.4.02]	TGF-β signaling in exercise or micro-damage results in coordinate recruitment of immune cells to muscle tissue, affecting efficient remodeling and restoration of muscle function V. Krishnan ¹ , B. Yaden ^{1,2} , G. Dai ² , H.U. Bryant ¹ , Y. Wang ^{1,2} , A. Culver ^{1,2} , P. Shetler ¹ , A. Datta-Manan ¹ , J. Croy ¹ , ¹ <i>Lilly Research Laboratories, USA</i> , ² <i>IUPUI, USA</i>
[P2.4.03]	HC toxin (a HDAC inhibitor) enhances IRS1-AKT signalling and metabolism in mouse myotubes H.W.S. Tan, A.Y.L. Sim, Y.C. Long*, <i>National University of Singapore, Singapore</i>
[P2.4.04]	Decreased AMPK activity in adipose tissue of very obese humans and restoration by bariatric surgery N.B.R. Ruderman*, J.X. Xu, J.C. Cacicedo, W.P. Pories, C.L.D. Dohm, T.M. Mikkelsen, C.A. Apovian, <i>Boston University School of Medicine, USA</i>
[P2.4.05]	Exploring resistance training to improve whole body metabolism B.C. Yaden ¹ , V. Krishnan ¹ , J.T. Brozinick ¹ , J.M. Mackrell ¹ , A. Culver ¹ , A. Skljarevski ^{2,1} , Y. Wang ¹ , ¹ <i>Eli Lilly and Company, USA</i> , ² <i>Indiana University, USA</i>
[P2.4.06]	Daily heat stress treatment did not normalize denervation-activated ER stress in mouse skeletal muscle Y. Tamura*, Y. Kitaoka, Y. Matsunaga, H. Hatta, <i>Department of Sports Sciences, The University of Tokyo, Japan</i>
[P2.4.07]	Possible reappraisal of the angina pectoris drug trimetazidine in the treatment of skeletal muscle atrophy F. Molinari, L. Gatta, S. Gorini, P. Costelli, G. Rosano, E. Ferraro*, <i>IRCCS San Raffaele Pisana, Italy</i>
[P2.4.08]	Branched-chain amino acid supplementation during 2 weeks of detraining maintained endurance training-induced mitochondrial biogenesis in skeletal muscle Y. Matsunaga*, Y. Tamura, Y. Kitaoka, H. Hatta, <i>The University of Tokyo, Japan</i>
[P2.4.10]	Synergism of pharmacological AMPK activation and exercise E.C. Cokorinos*, T.T. Ross, D.A. Beebe, A. Jatkar, R.A. Miller, <i>Pfizer Inc., USA</i>
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[P2.5.01]	AMP-activated kinase controls exercise training- and AICAR-induced increases in SIRT3 and MnSOD M.A. Andersen ¹ , J. Brandauer ^{1,2} , H. Kellezi ¹ , S. Risis ¹ , C. Frøsig ³ , S.G. Vienberg ¹ , J.T. Treebak ¹ , ¹ <i>Section of Integrative Physiology, The Novo Nordisk Foundation Center for Basic Metabolic Research, University of Copenhagen, Denmark</i> , ² <i>Department of Health Sciences, Gettysburg College, Gettysburg, USA</i> , ³ <i>Section of Molecular Physiology, Department of Nutrition, Exercise and Sports, The August Krogh Centre, University of Copenhagen, Denmark</i>
[P2.5.02]	Hibernating bear muscle shows slow-fiber shifting and mitochondrial biogenesis despite prolonged physical inactivity M. Miyazaki ¹ , M. Shimozuru ² , T. Tsubota ² , ¹ <i>Health Sciences University of Hokkaido, Japan</i> , ² <i>Hokkaido University, Japan</i>
[P2.5.03]	Resistance exercise and mitochondrial dynamics Y. Kitaoka*, R. Ogasawara, Y. Tamura, H. Hatta, <i>The University of Tokyo, Japan</i>
[P2.5.04]	Skeletal muscle mitochondrial ROS emission is elevated 3 hrs after exercise independent of exercise intensity A.J. Trewin ¹ , L. Parker ¹ , C. Shaw ^{1,2} , A. Garnham ² , D. Hiam ¹ , I. Levinger ¹ , G. McConell ¹ , N. Stepto ¹ , ¹ <i>Victoria University, Australia</i> , ² <i>Deakin University, Australia</i>
[P2.5.05]	CPEB2-activated UCP1 RNA translation to burn fat H.F. Chen*, C.M. Hsu, Y.S. Huang, <i>Institute of Biomedical Sciences, Taiwan</i>

[P2.5.06]	The mitochondrial calcium uniporter controls skeletal muscle trophism in vivo C. Mammucari* ¹ , G. Gherardi ¹ , I. Zamparo ¹ , A. Raffaello ¹ , S. Boncompagni ² , F. Chemello ¹ , S. Cagnin ¹ , F. Protasi ² , D. De Stefani ¹ , R. Rizzuto ¹ , ¹ University of Padova, Italy, ² University of Chieti, Italy
[P2.5.07]	Identification and characterization of a novel MICU1 splicing variant in skeletal muscle A. Raffaello*, D. Vecellio Reane, R. Rizzuto, University of Padova, Italy
[P2.5.08]	Tissue specificity of alterations of mitochondrial substrates utilization by skeletal muscles after chronic hypoxia exposure A. Malgoyre* ¹ , C. Chabert ^{1,2} , N. Koulmann ¹ , H. Sanchez ¹ , ¹ Institut de Recherche Biomedicale des Armées, France, ² Inserm U1055, France
[P2.5.09]	Qualitative and quantitative mitochondrial improvements following strength and endurance training in normoxia and hypoxia in sedentary humans D. Pesta* ¹ , F. Hoppel ¹ , C. Macek ¹ , H. Messner ¹ , M. Faulhaber ¹ , C. Kobel ¹ , W. Parson ¹ , M. Burtscher ¹ , M. Schocke ¹ , E. Gnaiger ¹ , ¹ University of Innsbruck, Austria, ² Medical University of Innsbruck, Austria
[P2.5.10]	An electrically conductive mitochondrial reticulum in skeletal muscle B. Glancy*, L.M. Hartnell, D. Malide, Z.X. Yu, C.A. Combs, P.S. Connelly, S. Subramaniam, R.S. Balaban, National Institutes of Health, USA
[P2.5.11]	Can mitochondrial MTCH2 provide clues towards the concept of “exercise in a pill”? L. Buzaglo-Azriel, A. Ruggiero, Y. Kuperman, L. Shachnai, M. Tsoory, S. Zaidman, A. Gross*, Weizmann Institute, Israel
[P2.5.12]	Patho-physiological implication of the nuclear receptor Rev-erba in skeletal muscle H. Duez* ¹ , Y. Sebti ¹ , A. Mayeuf-Louchart ¹ , E. Woldt ¹ , S. Lancel ¹ , M. Hesselink ² , C. Duhem ¹ , S. Delhay ¹ , P. Schrauwen ² , B. Staels ¹ , ¹ Institute Pasteur De Lille, France, ² Maastricht University, The Netherlands
[P2.5.13]	Mitochondrial calcium signaling during zebrafish development G. Pallafacchina* ¹ , E. Lidron ¹ , E. Moro ² , F. Argenton ² , R. Rizzuto ¹ , ¹ University of Padova and CNR Neuroscience Institute, Italy, ² University of Padova, Italy
MOLECULAR AND CELLULAR CHANGES IN THE SKELETAL AND CARDIOVASCULAR SYSTEM	
[P2.6.01]	The effect of voluntary exercise on the autophagy and mitochondrial quality in skeletal muscle of mice D. Cui* ^{1,2} , S.Z. Ding ¹ , S.T. Qiu ¹ , H.Y. Wang ¹ , Y. Sun ¹ , ¹ Key Laboratory of Adolescent Health Assessment and Exercise Intervention, Ministry of Education, China, ² East China Normal University, China
[P2.6.02]	Muscle-specific gys1 deletion caused glucose intolerance, insulin resistance, impaired exercise and endurance capacity in adult mice C.E. Xirouchaki*, S.P. Mangiafico, Z. Ruan, A. Huang, J. Proietto, S. Andrikopoulos, University of Melbourne, Australia
[P2.6.03]	β-actin is dispensable for muscle glucose transport but may regulate mTORC1 signaling A.L.B. Madsen*, Y. Angin, L. Sylow, J.R. Knudsen, E.A. Richter, T.E. Jensen, University of Copenhagen, Denmark
[P2.6.04]	Involvement of mechanosensitive transcriptional network in contraction-dependent muscle fiber type conversion analyzed using “in vitro exercise model” M. Hosoya, Y. Uda, H. Hatakeyama, M. Kanzaki*, Tohoku University, Japan
[P2.6.05]	NOX2 inhibition alters adaptive signaling induced by endurance exercise in skeletal muscle C. Henriquez-Olguín* ^{1,2} , H. Cerda ¹ , A. Díaz-Vegas ¹ , Y. Utreras ¹ , M. Arias ¹ , A. Contreras ¹ , P. Llanos ¹ , F. Altamirano ¹ , E. Jaimovich ¹ , D. Valladares ¹ , ¹ Center of Molecular Studies of the Cell, Faculty of Medicine, Universidad de Chile, Chile, ² Laboratory of Integrative Exercise Physiology, Chile
[P2.6.06]	Exercise-induced adaptive responses in the zebrafish (Danio rerio) heart M. Rovira* ¹ , A.P. Palstra ^{1,2} , J.V. Planas ¹ , ¹ Universitat de Barcelona, Spain, ² Institute for Marine Resources and Ecosystem Studies-IMARES, The Netherlands
[P2.6.07]	Molecular characterization of fibronectin type III domain containing 5 (FNDC5) in the zebrafish (Danio rerio) skeletal muscle G. Arrey*, C. Puig, M. Rovira, J.V. Planas, University of Barcelona, Spain
[P2.6.08]	Additive effect of fenugreek increases creatine uptake in L6C11 muscle cells K.A. Tomcik* ¹ , W.J. Smiles ¹ , D.M. Camera ¹ , H.M. Hugel ² , J.A. Hawley ^{1,3} , R. Watts ¹ , ¹ Australian Catholic University, Australia, ² RMIT University, Australia, ³ Liverpool John Moores University, UK
[P2.6.09]	Satellite cell content in slow and fast-twitch muscles after ischemia-reperfusion in mouse skeletal muscle C.H. Lim* ¹ , H.J. Son ¹ , S.Y. Kim ² , D.J. Baek ² , H.L. Quan ¹ , H.J. Yang ¹ , H.J. Kim ¹ , C.K. Kim ¹ , ¹ Korea National Sport University, Republic of Korea, ² Han Yang University, Republic of Korea
[P2.6.10]	p38γ and δ promote heart hypertrophy by targeting the mTOR-inhibitory protein DEPTOR for degradation p38γ/δcontrol heart hypertrophy through mTOR pathway B. González-Terán, J.A. López, E. Rodríguez, S. Martínez-Martínez, L.J. Jiménez-Borreguero, J.M. Redondo, J. Vazquez, G. Sabio*, Centro Nacional de Investigaciones Cardiovasculares Carlos III, Spain

[P2.6.11]	Exercise may improve cell functions via activating several genes by heat shock proteins H. Takeuchi ^{1,2} , ¹ Nagasaki Tomie Hospital, Japan, ² Takeuchi Gene Center Ltd., Japan
[P2.6.12]	Exercise may activate estrogen receptor alpha via activating heat shock protein H. Takeuchi ^{1,2} , ¹ Nagasaki Tomie Hospital, Japan, ² Takeuchi Gene Center Ltd., Japan
[P2.6.14]	Molecular signalling response to short duration high intensity/low volume resistance training in human skeletal muscle T. Moro ^{*1} , C. Reggiani ¹ , F. Naro ² , L. Monaco ² , A. Paoli ¹ , ¹ University of Padova, Italy, ² Sapienza University, Italy
[P2.6.15]	IL-1β impairs insulin-stimulated GLUT4 translocation in L6 myotubes K.E. Cogan*, B. Egan, <i>University College Dublin, Ireland</i>
[P2.6.16]	PAK1 is necessary for exercise training to increase insulin action in skeletal muscle L. Sylow*, M.R. Jaurji, R. Kjobsted, L.L. Moller, T.E. Jensen, E.A. Richter, <i>Department of Nutrition, Exercise and Sports, Section of Molecular Physiology, University of Copenhagen, Denmark</i>
[P2.6.17]	Abnormal extracellular matrix deposition and intrinsic insulin resistance in skeletal muscle of women with polycystic ovary syndrome and the impact of exercise N.K. Stepto ^{*1,2} , N. Hatzirodos ³ , D. Hiam ¹ , R. Rodgers ³ , H.J. Teede ² , ¹ Institute of Sport Exercise & Active Living (ISEAL), Victoria University, Australia, ² Monash Centre of Health Research and Implementation, School of Public Health & Preventive Medicine, Monash University, Australia, ³ The Robinson Research Institute, University of Adelaide, Australia
[P2.6.18]	Physical inactivity and high fat diet synergistically enhance the accumulation of intramyocellular diacylglycerol and induce insulin resistance in murine soleus muscle S.K. Kakehi*, Y.T. Tamura, R.K. Kawamori, H.W. Watada, <i>Juntendo University, Japan</i>
[P2.6.19]	The divergent effects of exercise training after myocardial infarction versus aortic stenosis depend critically on endothelial nitric oxide synthase Y. Octavia ^{*1,2} , E.D. Van Deel ¹ , M.C. De Waard ¹ , M. De Boer ¹ , D.J. Duncker ¹ , ¹ Erasmus MC, The Netherlands, ² Maastricht University, The Netherlands
[P2.6.20]	Effect of chronic hypoxia on protein metabolism in human skeletal muscle G. D'Hulst ^{*1} , A. Ferri ^{1,4} , F. Billaut ^{1,2} , N. Marquet ^{1,3} , D. Naslain ^{1,3} , L. Bertrand ^{1,3} , S. Horman ^{1,3} , M. Francaux ^{1,3} , D.J. Bishop ^{1,2} , L. Deldique ¹ , ¹ KU Leuven, Belgium, ² Victoria University, Australia, ³ Université Catholique de Louvain, Belgium, ⁴ Sapienza University of Rome, Italy
[P2.6.21]	Both tensile strain and pulsating fluid shear stress stimulate nitric oxide production and il-6 and cox-2 gene expression in primary mouse myotubes F. De Weijer ^{*1} , A. Pincini ² , A.D. Bakker ¹ , J. Klein-Nulend ¹ , A. Sotiropoulos ² , R.T. Jaspers ¹ , ¹ VU University, The Netherlands, ² Institut Cochin, France
[P2.6.22]	Regulation of myoglobin expression in hypertrophied rat cardiomyocytes E.L. Peters, D. Kos, C. Offringa, W.J. Van der Laarse*, R.T. Jaspers, <i>VU University Amsterdam, The Netherlands</i>
[P2.6.23]	Use of wearable devices to improve management of physical exercise as a therapy for diabetic patients: Clinical and biochemical effects of a three months trial of metabolic fitness P. Orlando*, S. Silvestri, F. Brugè, T. Bacchetti, I. Cirilli, <i>Polytechnic University of Marche, Italy</i>
[P2.6.24]	Regulation of glucose transporter type 4 (Glut4) expression by undercarboxylated osteocalcin and estrogen receptors in rat muscle A. Pandey*, T. Chandrasekaran, R. Medhamurthy, <i>Indian Institute of Science, India</i>
[P2.6.25]	Metformin inhibits palmitate induced myostatin gene expression in C2C12 myotubes J.W. Son*, E.J. Kim, H.J. Lee, O.K. Hong, S.J. Yoo, <i>St. Mary's Hospital, The Catholic University of Korea, Republic of Korea</i>
[P2.6.26]	Intrinsic exercise capacity influences the expression of lipid droplet-regulating proteins in skeletal muscle C.S. Shaw ^{*1} , S.O. Shepherd ² , A.J.M. Wagenmakers ² , L.G. Koch ³ , S.L. Britton ^{3,4} , J.G. Burniston ² , ¹ Deakin University, Australia, ² Liverpool John Moores University, UK, ³ University of Michigan, USA, ⁴ Norwegian University of Science and Technology, Norway
[P2.6.27]	The effects of 21 days of bed rest on mitochondrial oxidative capacity H.C. Kenny ^{*4} , F. Rudwill ² , L. Breen ¹ , M. Heer ³ , S. Blanc ² , D.J. O'Gorman ⁴ , ¹ National Institute for Cellular Biotechnology, Ireland, ² Université de Strasbourg, France, ³ Profil Institute for Metabolic Research GmbH, Germany, ⁴ Centre for Preventive Medicine, School of Health and Human Performance, Dublin City University, Ireland
[P2.6.28]	Transcriptional regulation by "Live High-Train Low and High" hypoxic training in human skeletal muscle L. Deldicque ^{*1} , F. Brocherie ² , G. D'Hulst ¹ , R. Van Thienen ¹ , G.Y. Millet ² , O. Girard ² , ¹ KU Leuven, Belgium, ² University of Lausanne, Switzerland

[P2.6.29]	Phosphoproteomic analyses of exercise signaling in skeletal muscle from AMPK$\alpha_1\alpha_2$ muscle-specific double KO mice R. Kjøbsted* ¹ , H. Huang ² , J. Fentz ¹ , M. Foretz ^{3,4} , B. Viollet ^{3,4} , M.R. Larsen ² , J.F.P. Wojtaszewski ¹ , ¹ University of Copenhagen, Denmark, ² University of Southern Denmark, Denmark, ³ Institut Cochin, France, ⁴ Université Descartes, France
[P2.6.30]	Insulin-dependent mitochondrial Ca²⁺ handling drive retrograde regulation of GLUT4 translocation and glucose uptake in skeletal muscle fibers: Role of inositol 1,4,5-trisphosphate receptor in high-fat diet induced insulin resistance A. Díaz-Vega, Y. Utreras, P. Llanos, M. Arias, E. Jaimovich, A. Contreras-Ferrat*, Universidad De Chile, Chile
[P2.6.31]	Metabolic capacity at rest and during physical exercise in huntington patients M. Zuegel*, C. Lübbehüsen, K. Lindenberg, E. Calzia, U. Schumann, G.B. Landwehrmeyer, A.C. Ludolph, J.M. Steinacker, P. Weydt, Ulm University, Germany
[P2.6.32]	Prox1 transcription factor is essential for satellite cell differentiation and skeletal muscle phenotype R. Kivelä* ^{1,2} , I. Salmela ^{1,2} , Z. Wiener ² , H.Y. Nguyen ³ , E. Mervaala ² , H. Koistinen ³ , K. Alitalo ^{1,2} , ¹ Wihuri Research Institute, Finland, ² University of Helsinki, Finland, ³ Minerva Research Institute, Finland
[P2.6.33]	Correlation between aerobic fitness and EV miRNAs from plasma M. Guescini*, B. Canonico, F. Lucertini, S. Maggio, G. Annibalini, E. Barbieri, F. Luchetti, S. Papa, V. Stocchi, University of Urbino Carlo Bo, Italy
[P2.6.34]	The RabGAP TBC1D1 plays a central role in exercise regulated glucose metabolism in skeletal muscle J. Stoeckli*, D.E. James, The University of Sydney, Australia