



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

Florie Maillard, Sylvie Rousset, Yves Boirie, Martine Duclos, Nathalie Boisseau

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Florie Maillard, Sylvie Rousset, Yves Boirie, Martine Duclos, Nathalie Boisseau. 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. Cell Symposia, Exercise Metabolism, 2017, May 2017, Göteborg, Sweden. 2017. hal-01565543

HAL Id: hal-01565543

<https://hal.science/hal-01565543v1>

Submitted on 2 Jun 2020

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[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. Ranjbar³, P. Costelli^{1,2}, F. Penna^{1,2}, ¹University of Torino, Italy, ²Interuniversity Institute of Myology, Italy, ³Tarbiat Modares University, Iran
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[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
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[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, ¹ 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 [*] , ¹ 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. Sebat, ¹ 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, ¹ 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. Perflyev ¹ , T. Källman ⁴ , M. Kokosar ² , K. Højlund ⁵ , N. Pilon 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, ¹ 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, ¹ 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, <i>Hasselt University, Belgium</i>
[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. Uhlénhaut ¹ , ¹ <i>Helmholtz Zentrum München, Germany</i> , ² <i>Venetian Institute of Molecular Medicine (VIMM), Italy</i>
[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 <i>Medical Research Council, UK</i> , ² <i>Hospital Universitario de Canarias, Spain</i>
[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 <i>Universidade Federal dos Vales do Jequitinhonha e Mucuri, Brazil</i> , ² <i>University of New Mexico, USA</i>
[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 <i>Universidade Federal dos Vales do Jequitinhonha e Mucuri, Brazil</i> , ² <i>University of New Mexico, USA</i>
[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 <i>Baker Heart and Diabetes Institute, Australia</i> , ² <i>Monash University, Australia</i> , ³ <i>University of Western Australia, Australia</i>
[P1.091]	Circulating microRNAs are potential biomarkers of cardiorespiratory fitness J. Denham ^{*1} , P.R. Prestes ² , ¹ <i>University of New England, Australia</i> , ² <i>Federation University Australia, Australia</i>
[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 <i>Australian Catholic University, Australia</i> , ² <i>St Vincent's Institute of Medical Research, Australia</i> , ³ <i>McMaster University, Canada</i> , ⁴ <i>Liverpool John Moores University, UK</i>
[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 <i>Chiba University, Japan</i> , ² <i>Juntendo University, Japan</i>
[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, <i>University of New Mexico, USA</i>
[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 <i>LIKES Research Centre, Finland</i> , ² <i>University of Jyväskylä, Finland</i> , ³ <i>Helmholtz Zentrum München, Germany</i>
[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 <i>Victoria University, Australia</i> , ² <i>Monash University, Australia</i>
[P1.097]	Enzymatic dissociated skeletal muscle fibers show an artificially facilitated mitochondrial Ca²⁺ uptake H. Westerblad ^{*1} , C. Gineste ² , J.D. Bruton ¹ , A.J. Cheng ¹ , N. Ivarsson ¹ , ¹ <i>Karolinska Institutet, Sweden</i> , ² <i>Aix Marseille University, France</i>
[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. Møller ¹ , J. Knudsen ¹ , R. Kjøbsted ¹ , K. Dyar ² , J. Davey ³ , H. Qian ³ , P. Gregorevic ³ , ¹ <i>University of Copenhagen, Denmark</i> , ² <i>Helmholtz Zentrum München, Germany</i> , ³ <i>Baker IDI Heart and Diabetes Institute, Australia</i>
[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 <i>Helmholtz Zentrum, Germany</i> , ² <i>University of Cambridge, UK</i>
[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, <i>Maastricht University, The Netherlands</i>
[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*, <i>Liverpool John Moores University, UK</i>
[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, <i>Norwegian University of Science and Technology, Norway</i>
[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, <i>German Diabetes Center, Germany</i>
[P1.104]	High-density lipoprotein increases cellular mitochondrial function Y. Goto*, S. Nakashima, S. Abe, Y. Higaki, Y. Uehara, <i>Fukuoka University, Japan</i>
[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, <i>Fukuoka University, Japan</i>

[P1.106]	Mitochondrial function in adipose tissue and skeletal muscle: Adaptations to exercise training in obese black women A.E. Mendham ^{*1,2} , 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
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Poster Session 2
Tuesday, 23 May 2017
12:15-14:15

[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 <i>myostatin (MSTN)</i> performance SNP (g.66493737C>T) K. Bryan [*] , B. McGivney, G. Farries, K. Gough, C. McGivney, D. MacHugh, L. Katz, E. Hill, <i>University College Dublin, Ireland</i>
[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 [*] , <i>Novartis Institutes for BioMedical Research, Switzerland</i>
[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 Ca²⁺-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, <i>University of Copenhagen, Denmark</i>
[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, <i>German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE), Germany</i>
[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, <i>University of Campinas, Brazil</i>
[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, <i>University of Copenhagen, Denmark</i>
[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, <i>University of Copenhagen, Denmark</i>
[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, <i>University College Dublin, Ireland</i>
[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. Štěpán ^{1,2} , V. Šrámková ¹ , L. Rossmeislová ¹ , V. Štich ^{1,2} , ¹ Charles University in Prague, Czech Republic, ² University Hospital Kralovské Vinohrady, Czech Republic

[P2.018]	Beta2-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]	CIC-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. Joannis* 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 University 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 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, <i>University of Copenhagen, Denmark</i>
[P2.057]	Beta₂-adrenergic stimulation augments muscle hypertrophic response to resistance training at the expense of oxidative capacity in young men A.K. Lemming*, S. Habib, J. Onslev, J. Bangsbo, M. Hostrup, <i>University of Copenhagen, Denmark</i>
[P2.058]	LMCD1B: A novel regulator of skeletal muscle metabolism D.M.S. Ferreira* ¹ , A.J. Cheng ¹ , D. Edsgård 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]	Beta₂-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 beta₂-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 Systems 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, <i>Universidad Finis Terrae, Chile</i>
[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, <i>Universidad Finis Terrae, Chile</i>
[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*, <i>University of Sao Paulo, Brazil</i>
[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*, <i>IE Faria Exercise Physiology Laboratory, USA</i>
[P2.070]	Contractile C2C12 myotube model for studying exercise-induced release of extracellular vesicles M. Guescini*, S. Maggio, P. Ceccaroli, G. Annibali, F. Lucertini, V. Stocchi, <i>University of Urbino, Italy</i>
[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, <i>Juntendo, Japan</i>
[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, <i>Children's Hospital of Philadelphia, USA</i>
[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-γ 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. Löyttyneemi 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. Pilon*, A. Krook, J.R. Zierath, <i>Karolinska Institutet, Sweden</i>
[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 <i>Leibniz Institute for farm animal biology, Germany</i> , ² <i>University of Rostock, Germany</i>
[P2.099]	Knockout of the stress kinase S6k1 mimics the effect of chronic endurance exercise on glucose tolerance and exercise running performance C. Binsch ^{*1,2} , T. Jelenik ^{1,2} , M. Dille ^{1,2} , A. Pfitzer ¹ , S. Müller-Lüthloff ¹ , S. Karpinski ¹ , A. Chadt ^{1,2} , M. Roden ^{1,2} , T.R. Castaneda ¹ , H. Al-Hasani ^{1,2} , ¹ <i>German Diabetes Center, Germany</i> , ² <i>German Center for Diabetes Research, Germany</i>
[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 <i>University of Jyväskylä, Finland</i> , ² <i>University of Helsinki, Finland</i> , ³ <i>University of Minnesota, USA</i>
[P2.101]	Development of an in vitro model to study skeletal muscle/adipose tissue crosstalk during exercise L. Dollet*, N. Pilon, J. Zierath, A. Krook, <i>Karolinska Institutet, Sweden</i>
[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, <i>Karolinska Institutet, Sweden</i>
[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, <i>Karolinska Institutet, Sweden</i>
[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 <i>Seoul National University, Republic of Korea</i> , ² <i>Kyung Hee University, Republic of Korea</i>
[P2.105]	Tetraplegia: Adaptive response to stationary armcrank pedaling exercise, comparing different lesion levels in persons with a tetraplegia S. Sinz*, G. Brizuela, <i>Universidad de Valencia, Spain</i>
[P2.106]	Relationships of exercise and cardiorespiratory fitness with circulating estrogens and 13 estrogen metabolites in postmenopausal women C.E. Matthews ^{*1} , S.C. Moore ¹ , K.S. Courneya ³ , J.N. Sampson ¹ , R. Ziegler ¹ , C.M. Friedenreich ² , ¹ <i>National Cancer Institute, USA</i> , ² <i>Alberta Health Services, Canada</i> , ³ <i>University of Alberta, Canada</i>