PROGRAM

MONDAY, November 11—7:00 PM

| SESSION 1 | KEYNOTE SESSION | | |
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| Chairperson: | Xiaodong Wang, National Institute of Biological Science Beijing, China | es, | |
| Aleksandra Trifur | Keeping mitochondria in shape Aleksandra Trifunovic [35'+10'+5'] Presenter affiliation: University of Cologne, Cologne, Germany. 1 | | |
| Gyorgy Hajnoczky | Affairs of mitochondria with calcium Gyorgy Hajnoczky [35'+10'+5'] Presenter affiliation: Thomas Jefferson University, Philadelphia, Pennsylvania. | | |
| | TUESDAY, November 12—9:00 AM | | |
| SESSION 2 | MITOCHONDRIAL BIOGENESIS AND PROTEIN HOMEOSTASIS | | |
| Chairperson: | Nika Danial , Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts, USA | | |
| Agnieszka Chacir | on: Centre of New Technologies University of | 3 | |
| Thomas Becker | ing of mitochondrial protein translocases [20'+10'] on: University of Freiburg, Freiburg, Germany. | 4 | |
| Tetrahydrobiopterin stimulates mitochondrial biogenesis through increased PGC-1alpha expression in mice hearts Hyoung Kyu Kim, Jin Han [20'+10'] | | | |
| | on: Inje University, Busan, South Korea. | 5 | |

| | se-driven ubiquitin ligase Parkin promotes rotein import through the presequence pathway in | |
|---|---|----|
| Emeline Hamon-l Harper, Clément | Keromen, Maxime Jacoupy, Alban Ordureau, J.W Gautier, Olga Corti [10'+5'] on: Brain and Spine Insitute, ICM, Paris, France. | 6 |
| Tissue-specific Yang Yang, Niraj Pooja Manjunath Pirinen, Svetlana | effects of mitochondrial import proteostasis an Neupane, Jayasimman Rajendran, Jouni Kvist, , Ruben Torregrosa-Muñumer, Veijo Kinnunen, Eija Konovalova, Henna Tyynismaa [10'+5'] on: University of Helsinki Faculty of Medicine, | 7 |
| | TUESDAY, November 12—11:15 AM | |
| SESSION 3 | REGULATION OF MITOCHONDRIAL GENE EXPRESSION | |
| Chairperson: | Naotada Ishihara, Osaka University, Osaka, Japan | |
| | tion of mitochondrial genes associated with le sterility in rice and rapeseed.= [20'+10'] | |
| Presenter affiliation: University of Tokyo, Tokyo, Japan. | | 8 |
| programs | f mitochondrial and cytosolic translation | |
| Stirling Churchma Presenter affiliation | an [20'+10'] on: Harvard Medical School, Boston, Massachusetts. | 9 |
| | TUESDAY, November 12—2:00 PM | |
| SESSION 4 | POSTER SESSION | |
| Transcription in mitochondria of Ruslan Aphasizh | | |
| | on: Boston University, Boston, Massachusetts. | 10 |

| PPR-based mechanisms of mitochondrial editing surveillance in trypanosomes | |
|---|----|
| Inna Aphasizheva Presenter affiliation: Boston University, Boston, Massachusetts. | 11 |
| Bioenergetic and redox state mitochondrial alterations along the progression to chronic kidney insufficiency induced by folic acid administration | |
| Omar Emiliano Aparicio- Trejo, Edilia Tapia, José Pedraza-Chaverri Presenter affiliation: Faculty of Chemistry, National Autonomous University of Mexico (UNAM), Mexico City, Mexico. | 12 |
| PCR-free method reveals a highly brain region-specific mtDNA mutation spectrum in response to mtDNA replication instability Emilie K. Bagge, Mie Kubota-Sakashita, Noriko Fujimori-Tonou, Takaoki Kasahara, Tadafumi Kato | |
| Presenter affiliation: RIKEN, Wako, Japan. | 13 |
| Enhancing glycolysis attenuates Parkinson's disease progression in models and clinical databases Rong Cai, Yu Zhang | |
| Presenter affiliation: Capital Medical University, Beijing, China. | 14 |
| Pink1 mRNA is transported with mitochondria and translated locally to support axonal mitophagy Angelika B. Harbauer, Martha Ordonez, Zerong Cai, Ghazaleh Ashrafi, Romain Cartoni, Zhigang He, Thomas L. Schwarz | |
| Presenter affiliation: Boston Children's Hospital, Boston, Massachusetts; Harvard Medical School, Boston, Massachusetts; Zhejiang University, Jiaxing, China. | 15 |
| Electrophysiological characterization of channels formed by F-ATP synthases | |
| Andrea Carrer, Andrea Urbani, Chiara Galber, Michela Carraro, Lishu Guo, Francesco Ciscato, Valentina Giorgio, Ildikò Szabò, Paolo Bernardi | |
| Presenter affiliation: University of Padova, Padova, Italy. | 16 |
| Activated Drp1 regulates ischemia-induced mitochondrial dysfunctions through glutathione metabolism pathway Chenyang Duan, Lei Kuang, Tao Li, Liangming Liu | |
| Presenter affiliation: Army Medical Center of PLA, Chongqing, China. | 17 |

| Metabolic rewiring by histone variant macroH2A1.2 links lipid pathway to mitochondria function | |
|--|----|
| Chee Wai Fhu, Jun Ting Teoh, Li Ren Kong, Boon Cher Goh, Azhar Ali Presenter affiliation: Cancer Science Institute Singapore, Singapore. | 18 |
| Role of F-ATP synthase f subunit in dimer formation and PTP modulation | |
| <u>Chiara Galber</u> , Giovanni Minervini, Andrea Carrer, Giuseppe Cannino, Valeria Petronilli, Silvio Tosatto, Ildikò Szabò, Giovanna Lippe, Valentina Giorgio, Paolo Bernardi | |
| Presenter affiliation: University of Padova and CNR Neuroscience Institute, Padova, Italy. | 19 |
| The interaction of the inhibitor protein IF1 with F-ATP synthase modulates the permeability transition pore in a human cancer cell model | |
| Chiara Galber, Manuel J. Acosta, Victoria Burchell, Valeria Petronilli, Giovanna Lippe, Valentina Giorgio Presenter affiliation: University of Padova and Neuroscience Institute | |
| (CNR), Padova, Italy. | 20 |
| Role MOF acetyl transferase in mitochondrial homeostasis Sukanya Guhathakurta, Christoph U. Martensson, Alexander Schendzielorz, Bettina Warsheid, Thomas Becker, Asifa Akhtar Presenter affiliation: Max Planck Institute for Immunobiology and Epigenetics, Freiburg, Germany. | 21 |
| Effects of electromagnetic radiation on mitophagy and its potential regulatory mechanisms Yanhui Hao, Li Zhao, Yang Li, Ruiyun Peng | |
| Presenter affiliation: Beijing Institute of Radiation Medicine, Beijing, China. | 22 |
| Identification of potential substrates of membrane ubiquitin ligases | |
| <u>Yinbo Huo,</u> Jun Zheng, Min Zhuang Presenter affiliation: School of Life Science and Technology, Shanghai, China. | 23 |
| The role of mitochondrial membrane potential in regulating macrophage inflammatory response Emily M. Fouts, W.K. Eddie Ip | |
| Presenter affiliation: Mayo Clinic, Rochester, Minnesota. | 24 |

| COMP-Prohibitin 2 interaction maintains mitochondrial homeostasis and controls smooth muscle cell identity Yiting Jia, Meili Wang, Chengfeng Mao, Wei Kong | |
|---|----|
| Presenter affiliation: Peking University, Beijing, China. | 25 |
| Dinucleotide degradation by REXO2 maintains promoter specificity in mammalian mitochondria Shan Jiang, Thomas J. Nicholls, Henrik Spåhr, Stefan J. Siira, Camilla Koolmeister, Min Jiang, Aleksandra Filipovska, Claes M. Gustafsson, Nils-Göran Larsson Presenter affiliation: Karolinska Institutet, Stockholm, Sweden. | 26 |
| Live imaging of mitochondrial nucleoid fission in living mammalian cells Hirotaka Kanon, Takaya Ishihara, Naotada Ishihara Presenter affiliation: Osaka University, Osaka, Japan. | 27 |
| RNA binding protein HuD contributes to β-cell dysfunction by impairing mitochondria dynamics Youlim Hong, Chongtae Kim, Myeongwoo Jung, Eun Kyung Lee Presenter affiliation: The Catholic University of Korea College of Medicine, Seoul, South Korea. | 28 |
| Mitochondrial dysfunction by exposure of organochlorine pesticide in an early-staged zebrafish Hyojin Lee, Ki-Tae Kim Presenter affiliation: Seoul National Univ. of S&T, Seoul, South Korea. | 29 |
| Investigation of safety of mitochondrial replacement therapy using mouse ESCs Yeonmi Lee, Jumi Park, Doin Kim, Yuri Han, Eunju Kang Presenter affiliation: Asan Medical Center, Seoul, South Korea. | 30 |
| Precancerous lesion reversal with mitochondrial rejuvenation therapy—A case report <u>Dan Li</u> , Lihong Fan Presenter affiliation: Shanghai 10th People's Hospital, Shanghai, China. | 31 |
| Mitochondrial signaling in health and neurodegenerative disease <u>Lian Li</u> , Qi Zhang, Lih-Shen Chin Presenter affiliation: Emory University, Atlanta, Georgia. | 32 |
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| Protein disulfide isomerase PDI-6 controls mitochondrial unfolded protein response through regulating the function of Wnt protein | |
|---|----|
| Xinyu Li, Jiasheng Li, Qian Zhang, Yangli Liu, Ye Tian Presenter affiliation: Institute of Genetics and Developmental Biology, Beijing, China. | 33 |
| SIRT3 acts as a positive autophagy regulator to promote lipid mobilization in adipocytes via activating AMPK Tian Zhang, Jingxin Liu, Ligen Lin Presenter affiliation: University of Macau, Taipa, Macau. | 34 |
| The conserved Arg-8 of yeast subunit e is important for the stability of F-ATP synthase dimers and for generation of the full-conductance mitochondrial megachannel Lishu Guo, Michela Carraro, Andrea Carrer, Giovanni Minervini, Andrea Urbani, Ionica Masgras, Silvio C. Tosatto, Ildikò Szabò, Paolo Bernardi, Giovanna Lippe Presenter affiliation: University of Udine, Udine, Italy. | 35 |
| Glycerol-3-phosphate metabolism alleviates NADH reductive stress under mitochondrial respiratory failure and hypoxia Shanshan Liu, Song Fu, Lanlan Li, Yu Cao, Ning Li, Yan Ma, Hui Jiang Presenter affiliation: Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China; National Institute of Biological Sciences, Beijing, China. | 36 |
| Heterogeneous mitochondrial stress responses convergently maintain mitochondrial membrane potential Siqi Liu, Shanshan Liu, Baiyu He, Lanlan Li, Lin Li, Tao Cai, She Che, Hui Jiang | |
| Presenter affiliation: Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China; National Institute of Biological Sciences, Beijing, China. | 37 |
| A pilot study on the mitophagy of bone marrow mesenchymal stem cells in chondrogenic differentiation Hongrong Luo, Yuanqi Li, Hai Lin, Xingdong Zhang Presenter affiliation: Sichuan University, Chengdu, China. | 38 |
| Mitochondrial DNA-LL-37 complex prompt rheumatoid arthritis by induce neutrophil extracellular traps Ping Meng, Gan Wang, Yan L. Chen, Xiong Y. Li, Ren Lai Presenter affiliation: Yan'an Affiliated Hospital of Kunming Medical University, Kunming, China; Kunming Institute of Zoology, CAS, Kunming, China. | 39 |
| | |

| mitochondrial DNA heteroplasmy Emi Ogasawara, Kazuto Nakada, Naotada Ishihara Presenter affiliation: Osaka University, Osaka, Japan. | 40 |
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| Mitochondrial DNA mutations in iPSCs from Alzheimer's disease | |
| patients <u>Jumi Park, Ling Li, Yeonmi Lee, Dukhoon Kim, Jihwan Song, Eunju Kang</u> | |
| Presenter affiliation: Stem Cell Center, Asan Institute for Life Sciences, Seoul, South Korea. | 41 |
| A high throughput screening identifies a small molecule inhibitor of the GTPase activity of OPA1 that enhances apoptotic release of cytochrome c | |
| Anna Pellattiero, Charlotte Quirin, Stéphanie Herkenne, Nikolaos Biris, | |
| Laura Cendron, Evripidis Gavathiotis, Luca Scorrano Presenter affiliation: University of Padova, Padova, Italy; Veneto | |
| Institute of Molecular Medicine, Padova, Italy. | 42 |
| Probing interaction partners of a dually localized ion channel via BioID | |
| <u>Elena Prosdocimi</u> , Roberta Peruzzo, Jesusa Capera Aragones, Luigi Leanza, Antonio Felipe, Ildiko Szabo, Vanessa Checchetto | |
| Presenter affiliation: University of Padova, Padova, Italy. | 43 |
| A mitochondrial therapy for Duchenne muscular dystrophy Marco Schiavone, Anna Stocco, Jelle de Jong, Valeria Petronilli, Justina Sileikyte, Michael Forte, Francesco Argenton, Luciano Merlini, Patrizia Sabatelli, Paolo Bernardi Presenter affiliation: University of Padova, Padova, Italy. | 44 |
| Dimerization of MICU proteins controls Ca2+ influx through the mitochondrial Ca2+ uniporter Yuequan Shen | |
| Presenter affiliation: Nankai University, Tianjin, China. | 45 |
| Mitochondrial dysfunction in the aged lung and COPD—A role for mitochondrial calcium? Salil Srivastava, Khaushik Subramanian, Katherine Choy, Adriana Martinez Ledo, Olivier Bonneau, Rayman Choo-Wing, Melody Morris, Tea Shavlakadze, David J. Rowlands Presenter affiliation: Novartis Institutes for Biiomedical Research, | |
| Cambridge, Massachusetts. | 46 |

| A mitochondrial therapy for Duchenne muscular dystrophy Marco Schiavone, <u>Anna Stocco</u> , Jelle de Jong, Valeria Petronilli, Justina Sileikyte, Michael Forte, Francesco Argenton, Luciano Merlini, Patrizia Sabatelli, Paolo Bernardi | |
|---|----|
| Presenter affiliation: University of Padova, Padova, Italy. | 47 |
| Construction of a mitochondrial permeability transition pore- dependent death initiation model based on single-mitochondrion analysis by nano-flow cytometry Liyun Su, Jingyi Xu, Kaimin Gao, Xiaomei Yan Presenter affiliation: Xiamen University, Xiamen, China. | 48 |
| Upregulation of Cisd2 attenuates cognitive impairment and ameliorates Alzheimer's related brain damage in mice Ting-Kuan Chu, <u>Ting-Fen Tsai</u> Presenter affiliation: National Yang-Ming University, Taipei, Taiwan; National Health Research Institutes, Zhunan, Taiwan. | 49 |
| Trials of mitochondrial genome editing by mitoTALEN in Arabidopsis thaliana—Targeted gene disruption of ATP6-1 and ATP6-2 Yu Tsuruta, Hajime Sugaya, Syungo Yanase, Yuta Watari, Nobuhiro Tsutsumi, Shin-ichi Arimura Presenter affiliation: The University of Tokyo, Tokyo, Japan. | 50 |
| The nucleosome remodeling and deacetylase (NuRD) complex mediates the mitochondrial unfolded protein response and longevity in <i>C. elegans</i> Di Zhu, <u>Xueying Wu</u> , Ye Tian Presenter affiliation: Chinese Academy of Sciences, Beijing, China. | 51 |
| Sulforaphane inhibits NLRP3 inflammasome activation by enhancing mitophagy Gabsik Yang, Jin Kyung Seok, Hye Eun Lee, Joo Young Lee Presenter affiliation: The Catholic University of Korea, Bucheon, South Korea. | 52 |
| A mammalian autophagy related gene localizes to the mitochondria and regulates lung tumorigenesis Lixia Guo, Ting Zhang, Yanan Yang Presenter affiliation: Mayo Clinic, Rochester, Minnesota. | 53 |

| Characterising the function of mammalian AAA+ protein SKD3 Hanmiao Zhan, Sara Oveissi, Pierrer Faou, Weisan Chen, David Dougan, Kaye Truscott Presenter affiliation: La Trobe University, Melbourne, Australia. | 54 |
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| Wnt signaling mediates transgenerational mitochondrial unfolded protein response and longevity in <i>C. elegans</i> Qian Zhang, Zihao Wang, Xinyu Li, Jun Zhou, Ye Tian Presenter affiliation: State Key Laboratory of Molecular Developmental Biology, Beijing, China; UCAS, Beijing, China. | 55 |
| Approach on mechanism of <i>Bifidobacterium longum</i> in the treatment of lung cancer Xu Zhang, Tiansheng Zheng, Xiao Xu, Ming Li, Lihong Fan Presenter affiliation: Shanghai 10th People's Hospital, Shanghai, China. | 56 |
| Liver governs adipose remodelling via extracellular vesicles in response to lipid overload <u>Yue Zhao</u> , Mengfei Zhao, Shan Jiang, Jing Wu, Jia Liu, Chaojun Li Presenter affiliation: Nanjing University, Nanjing, China. | 57 |
| Identification of an ubiquitin ligase essential for peroxisome de novo biogenesis and degradation Jun Zheng, Qiang Liu, Min Zhuang Presenter affiliation: School of Life Science and Technology, Shanghai, China; University of Chinese Academy of Sciences, Beijing, China. | 58 |
| Nrf2 protects mitochondrial decay by oxidative stress in cardiomyocytes Chao Zhu, Joshua Strom, Beibei Xu, Xiuqing Tian, Qin M. Chen Presenter affiliation: University of Arizona College of Medicine, Tucson, Arizona. | 59 |

TUESDAY, November 12-4:30 PM

Chinese Tea and Beer Tasting

TUESDAY, November 12—7:00 PM

| SESSION 5 | METABOLISM | |
|--|---|----|
| Chairperson: | Ildikò Szabò, University of Padova, Padova, Italy | |
| Atan Gross [20' | MTCH2—How does it regulate mitochondria? <u>Atan Gross</u> [20'+10'] Presenter affiliation: Weizmann Institute of Science, Rehovot, Israel. | |
| Kivanc Birsoy [2 | roaches to study cancer cell metabolism 20'+10'] on: Rockefeller University, New York, New York. | 61 |
| metabolism Mikael Bjorklund Presenter affiliatio University, Hangz | on: Zhejiang University, Haining, China; Zhejiang zhou, China. | 62 |
| regulators using free assay Anton Petcherski Michaela Veliova, Orian S. Shirihai | nding to lipid droplets—Identification of binding chemical genomics and reconstitution in a cell- , Rebeca Acin-Perez, Alexandra J. Brownstein, , Robert Damoiseaux, Amy Wang, Marc Liesa-Roig, [10'+5'] on: University of California Los Angeles, Los Angeles, | 63 |
| inflammation Nika N. Danial | on: Dana-Farber Cancer Institute, Harvard Medical | 64 |

WEDNESDAY, November 13—9:00 AM

SESSION 6 MITOCHONDRIAL DYNAMICS AND ER INTERACTIONS Chairperson: Aleksandra Trifunovic, University of Cologne, Cologne, Germany A genome wide high content screening illuminates the architecture of the endoplasmic reticulum-mitochondria interface Luca Scorrano [20'+10'] Presenter affiliation: University of Padova, Padova, Italy, Dynamic regulation of mitochondrial double membranes and genome Naotada Ishihara [20'+10'] Presenter affiliation: Osaka University, Toyonaka, Japan. 65 Mitochondrial checkpoint kinase PDK4 plays a key role in regulating mitochondrial dynamics and bioenergetics In-Kyu Lee [20'+10'] Presenter affiliation: Kyungpook National University, Kyungpook National University Hospital, Daegu, South Korea. 66 They take up calcium, depolarize and fragment, yet they do not lead to apoptosis—The survival story of brown adipocytes mitochondria Orian Shirihai [20'+10'] Presenter affiliation: David Geffen School of Medicine at UCLA, Los Angeles, California. 67 WEDNESDAY, November 13—11:15 AM MECHANISTIC BASIS OF MITOCHONDRIAL DISEASES SESSION 7 Agnieszka Chacinska, University of Warsaw, Chairperson: Warsaw, Poland Metabolic and proteomic adaptations to maintain proliferation of **OXPHOS-deficient cells** Hui Jiang [20'+10'] Presenter affiliation: National Institute of Biological Sciences, Beijing,

68

China

| neurodegenerat Kaori Ishikawa, S Hirokazu Matsum | ne mutant <i>MFN2</i> induces different severity of tion depends on its expression timing Satoshi Yamamoto, Satoko Hattori, Naoya Nishimura, noto, Tsuyoshi Miyakawa, Kazuto Nakada [20'+10'] on: University of Tsukuba, Tsukuba, Japan. | 69 |
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| fitness | olic drivers of immune cell potency, fate and | |
| | on: Agilent Cell Analysis, Lexington, Massachusetts. | 70 |
| | WEDNESDAY, November 13—2:00 PM | |
| | Visit to Old Suzhou | |
| | WEDNESDAY, November 13—7:00 PM | |
| SESSION 8 | MITOPHAGY AND INFLAMMATION | |
| Chairperson: | György Hajnoczky , Thomas Jefferson University, Philadelphia, Pennsylvania, USA | |
| Regulation of m | itophagy via endoplasmic reticulum membrane- | |
| Koji Okamoto [| 20'+10'] on: Osaka University, Suita, Japan. | 71 |
| proteostatic stre | | |
| | <u>Chen</u> [20'+10'] on: Nankai University, Tianjin, China. | 72 |
| inflammatory re | | |
| | n, <u>Tiffany Horng</u> [10'+5'] on: ShanghaiTech University, Shanghai, China. | 73 |
| Calcineurin regumitophagy | ulates Parkin-translocation to mitochondria and | |
| Elena Ziviani [1 | 0'+5'] on: University of Padova, Padova, Italy. | 74 |

| during NLRP3 in Tan Zhang, Shuz Presenter affiliation | ysfunction is the downstream event of K efflux inflammasome activation in the bing, Sankar Ghosh [10'+5'] in Columbia University, New York, New York; East inversity, Shanghai, China. | 75 |
|--|--|----|
| Functional characterization of the role of SOD2 rs4880 in asparaginase-induced hepatotoxicity Sharon Wu, Houda Alachkar [10'+5'] Presenter affiliation: University of Southern California, Los Angeles, California. | | 76 |
| | THURSDAY, November 14—9:00 AM | |
| SESSION 9 | STRUCTURE AND FUNCTIONS OF ENERGY- CONSERVING COMPLEXES AND CARRIERS | |
| Chairperson: | Orian Shirihai, University of California, Los Angeles, Los Angeles, California, USA | |
| ATPase among : Hiroyuki Noji [2 | | 77 |
| rescued by Atp2 Guangying Yang, | ast ATP synthase in <i>atp10</i> mutants can be 23p , Yuanyuan Ding, <u>Xiaomei Zeng</u> [10'+5'] on: Huazhong University of Science and Technology, | 78 |
| Purified F-ATP synthase forms a Ca ²⁺ -dependent high-conductance channel matching the mitochondrial permeability transition pore Andrea Urbani, Valentina Giorgio, Andrea Carrer, Cinzia Franchin, Giorgio Arrigoni, Chimari Jiko, Kazuhiro Abe, Shintaro Maeda, Kyoko Shinzawa-Itoh, Janna Bogers, Duncan McMillan, Ildiko Szabo, Paolo Bernardi, Christoph Gerle [10'+5'] Presenter affiliation: Osaka University, Suita, Japan. | | 79 |

| The unique conserved arginine in subunit g of F-ATP synthase mediates sensitivity of the mitochondrial permeability transition pore by arginine modification <u>Lishu Guo</u> , Michela Carraro, Geppo Sartori, Giovanni Minervini, Andrea Carrer, Michael A. Forte, Giovanna Lippe, Ove Eriksson, Valeria Petronilli, Paolo Bernardi [10'+5'] | |
|--|----|
| Presenter affiliation: University of Padova, Padova, Italy; Tongji University, Shanghai, China. | 80 |
| The molecular nature of the permeability transition pore—Where do we stand? Paolo Bernardi [20'+10'] Presenter affiliation: Università di Padova, Padova, Italy. | 81 |
| Impaired transient opening of the mitochondrial permeability transition pore reveals the molecular mechanism of hereditary spastic paraplegia (SPG7) Irene Sambri, Filomena Massa, Francesca Gullo, Simone Meneghini, Laura Cassina, Lorenzo Patanella, Filippo Santorelli, Fabio Grohovaz, Paolo Bernardi, Andrea Becchetti, Giorgio Casari [10'+5'] Presenter affiliation: TIGEM-Telethon Institute of Genetics and | |
| Medicine, Pozzuoli, Italy; Vita-Salute San Raffaele University, Milan, Italy. | 82 |
| Molecular identity and regulatory mechanisms of the mitochondrial uncoupling protein of non-adipose tissues Ambre M. Bertholet, Edward T. Chouchani, Lawrence Kazak, Alessia Angelin, Andriy Fedorenko, Jonathan Z. Long, Sara Vidoni, Ryan Garrity, Joonseok Cho, Naohiro Terada, Douglas C. Wallace, Bruce M. Spiegelman, Yuriy Kirichok [10'+5'] Presenter affiliation: University of California, San Francisco, San Francisco, California. | 83 |
| Unraveling the pathophysiological role of the mitochondrial chaperone TRAP1 | |
| Claudio Laquatra, Ionica Masgras, Rosanna Gissi, Marco Schiavone, Giovanni Minervini, Alessandra Castegna, Silvio Tosatto, Francesco Argenton, Andrea Rasola [10'+5'] Presenter affiliation: University of Padua, Padova, Italy. | 84 |
| Discovery the composition of mitochondrial respiratory chain Maojun Yang [20'+10'] Presenter affiliation: Tsinghua University, Beijing, China | 85 |

| SESSION 10 | SIGNALING AND STRESS RESPONSE | |
|--|--|-----|
| Chairperson: | Luca Scorrano, University of Padova, Padova, Italy | |
| Li-Wa Shao, Che | lation of mitochondrial stress response ngchuan Ma, Ying Liu [20'+10'] on: Peking University, Beijing, China. | 86 |
| diseases Jane Wu [20'+' | nfolded protein response in neurodegenerative 10'] on: Northwestern University, Chicago, Illinois. | |
| aging Ye Tian [20'+10 Presenter affiliation | r regulation of mitochondrial homeostasis and D'] on: Institute of Genetics and Developmental Biology, by of Sciences, Beijing, China. | 87 |
| signaling via ER Roberto Costa, R Mattarei, Enrico I Massimo Zeviani Marisa Brini, Tito [10'+5'] | nondrial ATP production downregulates Wnt R stress induction Roberta Peruzzo, Magdalena Bachmann, Andrea Moro, Ruben Quintana-Cabrera, Luca Scorrano, , Mario Zoratti, Cristina Paradisi, Francesco Argenton, Calì, Sirio Dupont, Ildiko Szabo, Luigi Leanza | 0.0 |
| The core clock p dendritic cells b mitochondrial m Mariana P. Cerva James O. Early, Francisco J. Sán Presenter affiliati | on: University of Padova, Padova, Italy. protein BMAL1 regulates antigen processing in by altering cellular calcium location to control norphology antes-Silva, Richard G. Carroll, Mieszko M. Wilk, George A. Timmons, Cathy Wyse, Kingston H. Mills, chez-García, Annie M. Curtis [10'+5'] on: Royal College of Surgeons in Ireland, Dublin, bollege Dublin, Dublin, Ireland. | 88 |
| a mitochondrial Oswaldo Lozoya Grimm, Veronica Janine Santos | , Fuhua Xu, Dagoberto Grenet, Tianyuan Wang, Sara Godfrey, Suramya Waidyanatha, Richard Woychik, | 90 |
| | | |

| cellular resiliend Lena Hoffmann, Marco Rust, Cars | -2 for mitochondrial calcium regulation and ce Marcel S. Waclawczyk, Eva-Maria Hanschmann, sten Culmsee [10'+5'] on: University of Marburg, Marburg, Germany. | 91 | |
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| BacFlash signals acid-resistance gene expression in bacteria Di Wu, Wenfeng Qi, Zhengyuan Lu, Yongxin Ye, Jinghang Li, Tao Sun, Heping Cheng, Xianhua Wang [20'+10'] Presenter affiliation: Peking-Tsinghua Center for Life Sciences, Institute of Molecular Medicine, Peking University, Beijing, China. | | | |
| | THURSDAY, November 14—6:00 PM | | |
| | COCKTAILS and BANQUET | | |
| | FRIDAY, November 15—9:00 AM | | |
| SESSION 11 | MITOCHONDRIA IN CELL DEATH AND CANCER | | |
| Chairperson: | Paolo Bernardi, University of Padova, Padova, Italy | | |
| Mitochondrial potassium channels control cell survival Vanessa Checchetto, Luigi Leanza, Diego De Stefani, Rosario Rizzuto, Fabio Di Lisa, Michael Edwards, Erich Gulbins, Andrea Mattarei, Cristina Paradisi, <u>Ildiko Szabo</u> [20'+10'] Presenter affiliation: University of Padova, Padova, Italy. | | | |
| DGUOK mutant Xingguo Liu [10 Presenter affiliation | derived hepatocyte model reveals ferroptosis in mtDNA depletion syndrome 0'+5'] on: Guangzhou Institutes of Biomedicine and Health, y of Sciences, Guangzhou, China. | 94 | |
| Androgen-induced expression of DRP1 regulates mitochondrial metabolic reprogramming in prostate cancer Yu Geon Lee, YeJi Nam, Kyeong Jin Shin, Young Chan Chae | | | |
| [10'+5'] Presenter affiliation Technology, Ulsa | on: Ulsan National University of Science and an, South Korea. | 95 | |
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Actin(g) on mitochondria—Role of the actin-binding proteins

| Decoding the role of glutaminolysis in developmental and tumor angiogenesis | |
|---|-----|
| Giovanna Pontarin, Roxana Oberkersch, Matteo Astone, Liasian Arslanbaeva, Marianna Spizzotin, Saverio Tardito, Massimo Santoro [10'+5'] | |
| Presenter affiliation: University of Padova, Padova, Italy. | 96 |
| New mitochondrial pathways in apoptosis and pyroptosis Judy Lieberman, Xing Liu, Winston Chang, Caroline Junqueira, Zhibin Zhang, Hao Wu [20'+10'] | |
| Presenter affiliation: Boston Children's Hospital, Harvard Medical School, Boston, Massachusetts. | 97 |
| Granzyme B enters mitochondria in a Sam50, Tim22 and mtHsp70-dependent manner to induce apoptosis Denis Martinvalet [10'+5'] | |
| Presenter affiliation: University of Padova, Padova, Italy; Veneto Institute of Molecular Medicine, Padova, Italy. | 98 |
| A mitochondrial Ca ²⁺ transient connects energy sensing to mitotic progression | |
| Haixin Zhao, Teng Li, Kai Wang, Fei Zhao, Jiayi Chen, Guang Xu, Jie Zhao, Ting Li, Liang Chen, Lin Li, Qing Xia, Tao Zhou, Hui-Yan Li, Ai-Ling Li, Toren Finkel, Xue-Min Zhang, Xin Pan [10'+5'] | |
| Presenter affiliation: National Center of Biomedical Analysis, Beijing, China. | 99 |
| Inhibition of the mitochondrial Fe2+ influx-CypD acetylation positive feedback loop decreases regulated neuronal necrosis and improves the outcome of intracerebral hemorrhage in mice Weixiang Chen, Hua Feng [10'+5'] Presenter affiliation: Third Military Medical University (Army Medical University), Chongqing, China. | 100 |
| Mitochondrial signaling to apoptosis and inflammation | |
| Xiaodong Wang [20'+10'] Presenter affiliation: National Institute of Biological Sciences, Beijing, China. | |