

August 1, 2017 - Tuesday

|               | ROOM I<br>Ground Floor   | ROOM II<br>Ground Floor | ROOM III<br>1st floor | ROOM IV<br>1st floor | ROOM V<br>1st floor | ROOM VI<br>1st floor | ROOM VII<br>1st floor | ROOM VIII<br>1st floor |
|---------------|--|-------------------------|-----------------------|----------------------|---------------------|----------------------|-----------------------|------------------------|
| 14:00 - 17:00 | <b>REGISTRATION</b>  |                         |                       |                      |                     |                      |                       |                        |
| 17:00 - 18:00 | <b>OPENING CEREMONY</b>  |                         |                       |                      |                     |                      |                       |                        |
| 18:00 - 19:00 | <b>PLENARY LECTURE</b><br><b>DENIS NOBLE (UK)</b><br>Dance to the Rhythms of Life: physiology returns to centre stage                                  |                         |                       |                      |                     |                      |                       |                        |
| 19:00 - 20:00 | <b>PLENARY LECTURE</b><br><b>ADA YONATH (ISRAEL)</b><br>Resistance to antibiotics, the microbiome and environmental issues, thoughts about the future. |                         |                       |                      |                     |                      |                       |                        |

August 2, 2017 - Wednesday

|               | ROOM I<br>Ground Floor   | ROOM II<br>Ground Floor  | ROOM III<br>1st floor  | ROOM IV<br>1st floor   | ROOM V<br>1st floor   | ROOM VI<br>1st floor  | ROOM VII<br>1st floor  | ROOM VIII<br>1st floor  |
|---------------|--|--|--|--|---|---|--|---|
| 08:00 - 08:30 | <b>REGISTRATION</b>  |  |  |  |   |   |  |   |
| 08:30 - 09:30 | <b>PLENARY LECTURE</b><br><b>DANIEL MARTIN (UK)</b><br>Physiology at extreme altitude  |  |  |  |   |   |  |   |
| 9:45 - 11:45  | <b>SYMPOSIUM</b><br><b>From systems to organelles – understanding pancreatic beta cell function and dysfunction</b><br>Miriam Croop (Belgium)<br>Licio Veloso (Chair - Brazil)<br>Michael Sammeth (Brazil)<br>Doris Stoffers (USA) | <b>SYMPOSIUM</b><br><b>The Exercise Pressor Reflex as a Mediator of Sympathetic Overactivity in Cardiovascular Disease</b><br>Donald S. O'Leary (USA)<br>Scott A. Smith (USA)<br>Carlos Eduardo Negro (Brazil)<br>Harjun Wang (Chair - USA)<br>Raphaela Vilar Ramalho Groeths Miranda (Brazil) | <b>SYMPOSIUM</b><br><b>Intracellular Cl<sup>-</sup> (Cl<sup>-</sup>) sensing in cell signaling and ion transport</b><br>Shmuel Muallem (Chair - USA)<br>Melanie Cobb (USA)<br>Jeonghee Park (South Korea)<br>Laura Canoncdo (Italy)      | <b>SYMPOSIUM</b><br><b>Oxytocin oscillations throughout the life span</b><br>Kewir Nyuyki-Dufe (Canada)<br>James Burkett (USA)<br>Joana Canas (USA)<br>Aldo Bolten Lucion (Brazil)<br>Inga D Neumann (Chair - Germany)   | <b>SYMPOSIUM</b><br><b>Heterogeneity in Respiration: New Insights from new approaches</b><br>Merryn Tawhai (Chair - New Zealand)<br>Susan Hopkins (USA)<br>Peter Wagner (USA)<br>Isaac Cano (Spain)   | <b>SYMPOSIUM</b><br><b>Dysic and T-Tubule Remodelling in Cardiac Health and Disease</b><br>Andrew Trafford (Chair - UK)<br>Alicia Mattazzi (Argentina)<br>Katharine Dibb (UK)<br>Ting Ting Hong (USA)                                       | <b>SYMPOSIUM</b><br><b>Oscillations in neuronal ensembles of frontal cortex and the basal ganglia circuits implications for neurologic and psychiatric disease</b><br>Per Petersson (Chair - Sweden)<br>Romulo Fuentes (Chile)<br>Gustavo Murer (Argentina)<br>Ivani Brys (Brazil) | <b>SYMPOSIUM</b><br><b>Physiological and pathophysiological changes in the transcriptome: New targets for understanding autonomic regulation</b><br>David Murphy (UK)<br>Alastair V. Ferguson (Canada)<br>Sabine Gouraud (Japan)<br>Charlie Hindmarch (Canada)<br>Andre Souza Mecawi (Chair - Brazil) |
| 12:00 - 14:30 | <b>POSTERS SESSIONS</b>  |  |  |  |   |   |  |   |
| 14:45 - 16:45 | <b>SYMPOSIUM</b><br><b>Evolution Evolves: Physiology returns to Centre Stage</b><br>David Paterson (Chair - UK)<br>Michael Joyner (USA)<br>Yoav Soen (Israel)<br>Abigail Fowden (UK)<br>Tongshu Sun (China)                        | <b>SYMPOSIUM</b><br><b>Shared and unique aspects of the gating mechanisms of ligand- and voltage-gated ion channels</b><br>Yoshihiro Kubo (Chair - Japan)<br>Derek Bowie (Canada)<br>Cecilia Bouzat (Argentina)<br>Frank Bosmans (USA)<br>Marc Gielen (France)                                 | <b>SYMPOSIUM</b><br><b>New discoveries in tissue cross-talk, metabolic control and disease pathogenesis</b><br>Bente Klarlund Pedersen (Denmark)<br>Matthew Watt (Chair - Australia)<br>Kasey Yickers (USA)<br>Mark Tarnopolsky (Canada) | <b>SYMPOSIUM</b><br><b>New roles of Aldosterone and Mineralocorticoid receptors in cardiovascular disease: Translational and Sex-specific effects</b><br>Frederic Lasser (France)<br>Iris Jaffe (USA)<br>Rita Tostes (Brazil)<br>Eric J. Belin de Chantemele (Chair - USA)<br>Aurelie Nguyen Dinh Cat (UK) | <b>SYMPOSIUM</b><br><b>Heart Failure and Atrial Fibrillation: imbalance of Calcium Homeostasis</b><br>William Louch (Chair - Norway)<br>Cecilia Hidalgo (Chile)<br>Howard Rockman (USA)<br>Kimberley Mellor (New Zealand)<br>Shi-Qiang Wang (China) | <b>SYMPOSIUM</b><br><b>Seasonal adjustments in Physiology: anticipatory or reflexive</b><br>Charles Loren Buck (USA)<br>Fritz Geiser (Australia)<br>Dehua Wang (China)<br>Danielle Levesque (USA)<br>Kenia Cardoso Bizogio (Chair - Brazil) | <b>SYMPOSIUM</b><br><b>Cellular and molecular aspects of synaptic transmission</b><br>Yuko Sekino (Chair - Japan)<br>Christian Gonzalez-Billault (Chile)<br>Tomoaki Shirao (Japan)<br>Shemas Bamji (Canada)<br>Frederic Chedier (France)   |   |
| 17:00 - 18:00 | <b>KEYNOTE LECTURE</b><br><b>DÉCLO L. EZENK (BELGIUM)</b><br>When one becomes many: alternative splicing in pancreatic beta cells<br>Sponsored by The Physiological Society  | <b>KEYNOTE LECTURE</b><br><b>COLLEEN FARMER (USA)</b><br>Physiological and evolutionary implications of the discovery of unidirectional pulmonary airflow in lizards and crocodilians.<br>Sponsored by The Journal of Physiology and The Physiological Society                                 | <b>KEYNOTE LECTURE</b><br><b>EVE WARDER (USA)</b><br>T.P. FENG LECTURE - Variability and Robustness in Neurons and Networks  | <b>KEYNOTE LECTURE</b><br><b>TOM KIRKWOOD (UK)</b><br>PATON PRIZE LECTURE - Why and How are We Living Longer?<br>Sponsored by The Physiological Society  | <b>KEYNOTE LECTURE</b><br><b>KATSUHIKO MIKOSHIBA (JAPAN)</b><br>IP3 Receptor / Calcium Signaling: Its Role in Physiology and Pathophysiology<br>Sponsored by The Scandinavian Physiological Society   | <b>KEYNOTE LECTURE</b><br><b>SUSAN WRAY (UK)</b><br>Myometrial Physiology - The Rhythms of Contraction and Life   |  |   |

August 3, 2017 - Thursday

|               | ROOM I<br>Ground Floor   | ROOM II<br>Ground Floor   | ROOM III<br>1st floor  | ROOM IV<br>1st floor   | ROOM V<br>1st floor   | ROOM VI<br>1st floor  | ROOM VII<br>1st floor  | ROOM VIII<br>1st floor   |
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| 08:00 - 08:30 | <b>REGISTRATION</b>  |   |  |  |   |   |  |  |
| 08:30 - 09:30 | <b>PLENARY LECTURE</b><br><b>AMIRA KLIP (CANADA)</b><br>Immune cells co-opting metabolism to cause insulin resistance.   |   |  |  |   |   |  |  |
| 9:45 - 11:45  | <b>SYMPOSIUM</b><br><b>Management and mismanagement of a physiological pH buffer: New concepts about CO<sub>2</sub>/HCO<sub>3</sub>- fluxes across biological membranes.</b><br>Richard Vaughan-Jones (UK)<br>Eliska Svastova (Slovak Republic)<br>Ernesto Alejandro Aiello (Chair - Argentina)<br>Raif Maza-Azer (Brazil)<br>Mark D. Parker (USA) | <b>SYMPOSIUM</b><br><b>New Insights into the biology of high-intensity exercise training</b><br>Guilherme C. Artioli (Brazil)<br>Nir Eynon (Chair - Australia)<br>David Bishop (Australia)<br>Maureen MacDonald (Canada)<br>Bereket Falk (Canada)                 | <b>SYMPOSIUM</b><br><b>Cardiovascular Consequences of Pollution</b><br>Fabien Brette (France)<br>Holly Shiels (Chair - UK)<br>John Incardona (USA)<br>Elin Sorhus (Norway)<br>Mark Miller (UK) | <b>SYMPOSIUM</b><br><b>Promoting Ethical Practices in Physiological Research</b><br>Penny Moody-Corbett (Canada)<br>Ashima Arand (Chair - India)<br>Sonia Vasconcelos (Brazil)<br>Bela Suki (USA)<br>Bill Yates (Brazil) | <b>SYMPOSIUM</b><br><b>What experimental models of human diseases have taught us?</b><br>Patricia Rieken Macedo Rocco (Brazil)<br>Claudia dos Santos (Chair - Canada)<br>Bela Suki (USA)<br>Walter Zini (Brazil)                          | <b>SYMPOSIUM</b><br><b>Integrated Neural-Glial-Vasculature Control of Breathing</b><br>Daniel K. Mulkey (Chair - USA)<br>Gregory D. Funk (Canada)<br>Hiroshi Onimaru (Japan)<br>Fernando Peña-Ortega (Mexico)<br>Luciane H. Gargaglioni (Brazil)                | <b>SYMPOSIUM</b><br><b>Role of autophagy in the pathogenesis of Parkinson's disease</b><br>Jawei Zhou (Chair - China)<br>Zhenyu Yue (USA)<br>Hui Yang (China)                          | <b>SYMPOSIUM</b><br><b>Dynamic methods for improving undergraduate physiology education</b><br>Pâmela Billing Mello-Carpes (Chair - Brazil)<br>Barbekka Hurr (USA)<br>Fernanda Klein Marcondes (Brazil)<br>Colleen Thomas (Australia)<br>Kathleen Marie Bartlow (USA)<br>Maria José Aves da Rocha (Brazil) |
| 12:00 - 14:30 | <b>POSTERS SESSIONS</b>  |   |  |  |   |   |  |  |
| 14:45 - 16:45 | <b>SYMPOSIUM</b><br><b>Obesity, sleep disorder and arterial hypertension, is that your choice? Novel mechanisms for cardiovascular control and programming of obesity</b><br>John E. Hall (USA)<br>Virend K. Somers (USA)<br>Egberto C. Moura (Brazil)<br>Issuara M. do Carmo (USA)<br>Miran Bassi (Chair - Brazil)                                | <b>SYMPOSIUM</b><br><b>Physiologists Reach Out to School Students to Entice Future Physiologists!</b><br>Barbara E. Goodman (Chair - USA)<br>Pamela Billing Mello-Carpes (Brazil)<br>Frankie MacMillan (UK)<br>Manish Bajpai (India)<br>Rudolf Schubert (Germany) | <b>SYMPOSIUM</b><br><b>Autonomic rhythms in health and disease</b><br>Susan Deuchars (Chair - UK)<br>Song Yao (Australia)<br>Ruth Scornetza (USA)<br>Alex Gourlie (UK)                         | <b>SYMPOSIUM</b><br><b>Plezo channel mechanisms in health and disease</b><br>Boris Martinac (Australia)<br>David Beech (Chair - UK)<br>Baoling Xiao (China)<br>Philip Gottlieb (USA)<br>Pia Ostergaard (UK)              | <b>SYMPOSIUM</b><br><b>The Sigh: A Biological rhythm in the interface between physiology and psychology</b><br>Jan Marino Ramirez (France)<br>Muriel Thoby-Brisson (France)<br>Peter Burke (Australia)<br>Elke Vlemminx (Chair - Belgium) | <b>SYMPOSIUM</b><br><b>Calcium handling and mishandling: Role in Cardiac Rhythm and Dysrhythmia</b><br>Yael Yaniv (Israel)<br>Ana Maria Gomes (France)<br>Francisco Alvarado (USA)<br>Martin Vía Petroff (Chair - Argentina)<br>Filip L.A. Van Petegem (Canada) | <b>SYMPOSIUM</b><br><b>Role of Redox Stress and Epigenetics in Ageing</b><br>Giovanni E. Mann (Chair - UK)<br>Jose Virla (Spain)<br>Renu A. Kowluru (USA)<br>Holly van Renswoude (USA) | Sponsored by The Society for Redox Biology and Medicine and The Physiological Society  |
| 17:00 - 18:00 | <b>KEYNOTE LECTURE</b><br><b>HELEN RAYBOULD (USA)</b><br>BAYLSS- STARLING PRIZE LECTURE - Bugs, Guts and Brains: How the Gut Microbiota Shapes Your Body and Mind<br>Sponsored by The Physiological Society  | <b>KEYNOTE LECTURE</b><br><b>ADALBERTO VAL (BRAZIL)</b><br>Life in Tropical Waters: Rhythms and Challenges  | <b>KEYNOTE LECTURE</b><br><b>CLAUDIA CAPURRO (ARGENTINA)</b><br>Role of the Water Channel AQP4 in Glial Cells Homeostasis in Physiology and Disease.   | <b>KEYNOTE LECTURE</b><br><b>DEE SILVERTHORN (USA)</b><br>ADInstruments LECTURE - The Intersection of Science, Education, and Creative Communities<br>Sponsored by ADInstruments   | <b>KEYNOTE LECTURE</b><br><b>FRANCESCA DEMICHELIS (ITALY)</b><br>Cell differentiation and drug pressure   | <b>KEYNOTE LECTURE</b><br><b>RHIAN TOUYZ (UK)</b><br>JOAN MOTT PRIZE LECTURE - Pathophysiology and Vascular Biology of Small Vessel Disease<br>Sponsored by The Physiological Society   |  |  |

August 4, 2017 - Friday

| ROOM I<br>Ground Floor | ROOM II<br>Ground Floor | ROOM III<br>1st floor | ROOM IV<br>1st floor | ROOM V<br>1st floor | ROOM VI<br>1st floor | ROOM VII<br>1st floor | ROOM VIII<br>1st floor |
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| 08:00 - 08:30                  |   | REGISTRATION  |   |  |  |   |  |   |  |  |
|--------------------------------|---|---|---|--|--|---|--|---|--|--|
| 08:30 - 09:30                  | <b>PLENARY LECTURE</b><br><b>YASUSHI MIYASHITA (JAPAN)</b><br>Neural dynamics of cognitive memory system in the primate: where global network meets local circuit.  |   |   |  |  |   |  |   |  |  |
| 09:45 - 12:15                  | <b>SYMPOSIUM</b><br><b>Polymodal Properties of Carotid Body Chemoreceptors Beyond Hypoxia: Relation to Health and Disease</b><br>Harold D. Schultz (Chair – USA)<br>Jacqueline K. Limberg (USA)<br>Sílvia Vilares Conde (Portugal)<br>Colin A. Nurse (Canada)<br>Nanduri R. Prabhakar (USA)<br>Sponsored by The American Physiological Society and Physiological Genomics | <b>SYMPOSIUM</b><br><b>TBP channels: structure, function and regulation</b><br>Ligia Araújo Naves (Chair – Brazil)<br>Ramon Latorre (Chile)<br>Sharon E. Gordon (USA)<br>Laszlo Csányi (Hungary)<br>Tamara Rosenbaum (Mexico) | <b>SYMPOSIUM</b><br><b>New insights into physiological and clinical adaptations to exercise and their heterogeneity</b><br>Lauren G Koch (USA)<br>Philip J Atherton (Chair – UK)<br>Heikki Kainäläinen (Finland)<br>Patricia Brum (Brazil)<br>Vitor Ura (USA)<br>Sponsored by The Physiological Society | <b>SYMPOSIUM</b><br><b>New insights into prolactin regulation and functions: a key hormone integrating reproduction and metabolism</b><br>Jose Donato Jr. (Brazil)<br>Raphael E. Szawka (Brazil)<br>Patrice Mollard (France)<br>David R. Grattan (Chair – New Zealand) | <b>SYMPOSIUM</b><br><b>From synaptic and network plasticity to behavior</b><br>Pankaj Sah (Australia)<br>Juan Lerma (Spain)<br>Ying-Shing Chan (Chair – China)   | <b>SYMPOSIUM</b><br><b>Mathematical Models in Health and Disease</b><br>Denis Noble (UK)<br>Elena Lucasini (Chair – Argentina)<br>Juan Ignacio Feltes (Argentina)<br>Kelly C. Iarosz (Brazil)   | <b>SYMPOSIUM</b><br><b>A search for new epithelial magnesium transporters and channels in health and disease</b><br>Vladimir Chubanov (Germany)<br>Youke Funato (Japan)<br>Jeroen de Baaij (Chair – Netherlands)<br>Frederica Wolf (Italy) | <b>SYMPOSIUM</b><br><b>Circadian rhythms and gastrointestinal physiology</b><br>Karl-Heinz Herzig (Chair – Finland)<br>Patricia Brubaker (Canada)<br>Zheng (Jake) Chen (USA)<br>Guillaume de Lartigue (USA)<br>Charna Dibner (Switzerland)<br>Sponsored by The Scandinavian Physiological Society |  |  |
| 12:00 - 14:30 POSTERS SESSIONS |   |   |   |  |  |   |  |   |  |  |
| 14:45 - 16:45                  | <b>SYMPOSIUM</b><br><b>Cardiorespiratory Interactions - from animals to humans</b><br>Erin O'Callaghan (UK)<br>Aloha Ben-Tal (New Zealand)<br>Rohit Ramchandra (New Zealand)<br>Maja Elstad (Chair – Norway)  | <b>SYMPOSIUM</b><br><b>Cilia go by the flow</b><br>Helle Praetorius (Chair – Denmark)<br>Jose Badano (Ungary)<br>Iain Drummond (USA)<br>Surya Nauli (USA)<br>Sponsored by The Scandinavian Physiological Society              | <b>SYMPOSIUM</b><br><b>Synapse function in the immune system</b><br>Claudio G. Garauito (USA)<br>Hsin-Fang Chang (Germany)<br>Jennifer L. Stow (Australia)<br>Yenan T. Bryceson (Chair – Sweden)  | <b>SYMPOSIUM</b><br><b>The Two-way Physiology Street: Mutual benefits of volunteering expertise</b><br>Penelope A. Hansen (Canada)<br>Tony Macknight (Chair – New Zealand)<br>Anisha Taylor (UK)<br>Oluogba A. Sofola (Nigeria)  | <b>SYMPOSIUM</b><br><b>Wild clocks: Temporal organization of physiology and behavior in natural settings</b><br>Hagg Kronfeld-Schor (Israel)<br>Barbara Helm (UK)<br>Horacio De La Iglesia (USA)<br>Cory T. Williams (USA)<br>Gisela A. Oda (Chair – Brazil) | <b>SYMPOSIUM</b><br><b>The Physiology of Polycystic Kidney Disease: New Molecular Pathways and Therapeutic Targets</b><br>Michael Caplan (Chair – USA)<br>Alejandra Buleta (Brazil)<br>Dorien J. Peters (Netherlands)<br>Luiz F. Omuich (Brazil)<br>Sponsored by The American Physiological Society and The American Journal of Physiology – Renal Physiology | <b>ORAL PRESENTATIONS</b><br><b>ÁLVARO OSÓRIO DE ALMEIDA AWARD BY SBPF</b><br>Eduardo Colombani (Chair – Brazil)   |   |  |  |
| 17:00 - 18:00                  | <b>KEYNOTE LECTURE</b><br><b>CHRISTIAN AALJAER (DENMARK)</b><br><b>AUGUST KROGH LECTURE – The Magnificent Cardiovascular System of Giraffes</b><br>Sponsored by The Scandinavian Physiological Society  | <b>KEYNOTE LECTURE</b><br><b>ANTONIO C. L. HÖRREGA (BRAZIL)</b><br><b>NEURAL CONTROL OF THE CIRCULATION DURING EXERCISE: WHERE THE BRAIN MEETS THE HEART</b>  | <b>KEYNOTE LECTURE</b><br><b>JACK FELDMAN (USA)</b><br><b>HUGO ST. HURLEY GATZ PRIZE LECTURE – Breathing: From Rhythm to Emotion.</b><br>Sponsored by The Physiological Society   | <b>KEYNOTE LECTURE</b><br><b>MASASHI YAMAGAWA (JAPAN)</b><br><b>TOWARDS THE MYSTERY OF SLEEP AND WAKEFULNESS: FORWARD GENETIC ANALYSIS IN MICE</b>   | <b>KEYNOTE LECTURE</b><br><b>MIN GOO LEE (SOUTH KOREA)</b><br><b>ANION CHANNELS AND BICARBONATE TRANSPORT</b>  |   |  |   |  |  |

August 5, 2017 - Saturday

|                                | ROOM I<br>Ground Floor   | ROOM II<br>Ground Floor  | ROOM III<br>1st floor  | ROOM IV<br>1st floor   | ROOM V<br>1st floor   | ROOM VI<br>1st floor  | ROOM VII<br>1st floor  | ROOM VIII<br>1st floor   |  |
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| 08:30 - 09:30                  | <b>PLENARY LECTURE</b><br><b>DAVID EISNER (UK)</b><br><b>ANNUAL REVIEW PRIZE LECTURE – Ups and downs of calcium in the heart.</b><br>Sponsored by The Physiological Society                                      |  |  |  |   |   |  |  |  |
| 9:45 - 11:45                   | <b>SYMPOSIUM</b><br><b>New Insights in the molecular physiology of the renal distal nephron</b><br>Jenny van der Wijst (Chair – Netherlands)<br>Daro Abassi (UK)<br>Shi-Hua Lin (Taiwan)<br>Eisai Sohara (Japan) | <b>SYMPOSIUM</b><br><b>Newly recognized G protein-coupled receptors (GPCRs) as novel regulators of physiology</b><br>Paul A. Insel (Chair - USA)<br>Stefan Offermanns (Germany)<br>Debbie L. Hay (New Zealand)<br>Jennifer Pluznick (USA)<br>James Eberwine (USA)<br>Sponsored by The American Physiological Society and The American Journal of Physiology – Regulatory, Integrative and Comparative Physiology | <b>SYMPOSIUM</b><br><b>Diaphragm plasticity in ageing and disease: Therapies for muscle weakness go from strength to strength.</b><br>Leigh Ann Callaghan - (USA)<br>Coen Otterheijn (Netherlands)<br>Sarah M. Grealish (Chair - USA)<br>Esther Barreiro (Spain)<br>Ken O'Halloran (Ireland) | <b>SYMPOSIUM</b><br><b>Neuroendocrine alterations in the hypothalamus by excess nutrients and endocrine disrupting chemicals causing metabolic disorders</b><br>Denise D. Belham (Chair – Canada)<br>Deborah Kurrasch (Canada)<br>Sarah A. Stanley (USA)<br>Deborah J. Klogg (USA) | <b>SYMPOSIUM</b><br><b>Scope for Survival: Animals in Extreme Environments</b><br>Marina Giacomini (Canada)<br>Paul Pongonis (USA)<br>William K. Milsom (Chair – Canada)<br>Tobias Wang (Denmark)<br>Julia Nowack (Austria) | <b>SYMPOSIUM</b><br><b>Modulation of physiological states of spinal networks to control posture and locomotion: underlying mechanisms and clinical translations</b><br>Yuri Gerasimenko (Russia)<br>Ursula S. Hoffmeister (Austria)<br>Parag Gad (India)<br>Yuri Ivanenko (Italy)<br>V. Reggie Edgerton (USA)<br>Sponsored by The American Physiological Society and The Journal of Neurophysiology | <b>SYMPOSIUM</b><br><b>Priming for health: The relevance of the brain-gut communication</b><br>Ludmila Filaretova (Russia)<br>Valentin A. Pavlov (Chair - USA)<br>Yohsei Okubo (Japan)<br>Izabela Martina Ramos Ribeiro (Brazil)<br>Andreas Stengel (Germany)<br>Sponsored by The American Physiological Society and The American Journal of Physiology – Gastrointestinal and Liver | <b>SYMPOSIUM</b><br><b>Oxidative stress, aging and neurodegeneration</b><br>Thomas Foster (USA)<br>Yohsei Okubo (Japan)<br>Marco T. Nunes (Chile)<br>Roberto De Paquale (Brazil)<br>Andrea Paula-Lima (Chair – Chile)  |  |
| 12:00 - 14:30 POSTERS SESSIONS |  |  |  |  |   |   |  |  |  |
| 14:45 - 16:45                  | <b>SYMPOSIUM</b><br><b>Vasomotion - the rhythm of blood vessels</b><br>Aneta Stefanovska (UK)<br>Geraldine Clough (UK)<br>Nikolaos Tsoukas (USA)<br>Vladimir Matchkov (Chair – Denmark)                          | <b>SYMPOSIUM</b><br><b>Oxygen variation through time</b><br>Wilfried Klein (Chair – Brazil)<br>Markus Lambert (Germany)<br>Harnes Baumann (USA)<br>Jason E. Postalsky (USA)<br>Gina Galli (UK)   | <b>SYMPOSIUM</b><br><b>The renin-angiotensin system: going beyond the classical paradigms</b><br>Robson A.S. Santos (Chair – Brazil)<br>Michael Bader (Germany)<br>Ulrike Muscha Steckelings (Denmark)<br>Gavin Oudit (Canada)<br>Thiago Verano Braga (Brazil)                               | <b>SYMPOSIUM</b><br><b>Mechanisms of mitochondria function and dysfunction</b><br>Satoshi Matsuoka (Japan)<br>Donald Bers (USA)<br>Heping Cheng (Chair – China)<br>Yuriana Oropeza (Mexico)<br>Alejandro Cicoci Pardo (Argentina)  | <b>SYMPOSIUM</b><br><b>New Microscopy Techniques in Physiology</b><br>Tao Xu (China)<br>Jennifer L. Stow (Chair - Australia)<br>Francesca Botanello - (USA)   | <b>SYMPOSIUM</b><br><b>Teaching Comparative Physiology: Multiple Approaches Promoting Learning</b><br>Malcolm S. Gordon (Chair – USA)<br>Stacy Farina (USA)<br>Miriam Struchiner – (Brazil)<br>Marcia Trapp (Brazil)<br>Guojian Niu (China)   | <b>SYMPOSIUM</b><br><b>Hypothalamic regulation of the cardiovascular system</b><br>Hui-Lin Pan (Chair – USA)<br>Roger A. Dampney (Australia)<br>Jean-Pierre Montani (Switzerland)  | <b>SYMPOSIUM</b><br><b>Gravitational Physiology, Aging and Medicine</b><br>Nandu Goswami (Chair - Austria)<br>Giovanna Valenti (Italy)<br>Andrew P. Blaber (Canada)<br>Kishore K. Deepak (India)<br>Jean-Pierre Montani (Switzerland)<br>Sponsored by The Austrian Physiological Society |  |
| 17:00-18:00                    | <b>KEYNOTE LECTURE</b><br><b>YVETTE TACHÉ (USA)</b><br><b>Stress and brain-gut interactions: role of corticotropin releasing factor</b>  | <b>KEYNOTE LECTURE</b><br><b>PASCAL HOULLIER (FRANCE)</b><br><b>ROBERT PITTS LECTURE</b><br><b>The Importance of the Paracellar Pathway.</b>   | <b>KEYNOTE LECTURE</b><br><b>NEWTON CANTERAS (BRAZIL)</b><br><b>The Many Paths to Fear</b>   | <b>KEYNOTE LECTURE</b><br><b>JULIAN F. R. PATON (UK)</b><br><b>Targeting Afferent Transduction Mechanisms in Disease</b>   | <b>KEYNOTE LECTURE</b><br><b>DUNCAN MITCHELL (SOUTH AFRICA)</b><br><b>SCHMIDT NIELSEN LECTURE – How Animals Will Work Under Climate Change.</b><br>Sponsored by The Scandinavian Physiological Society                      |   |  |  |  |
| 18:00-19:00                    | <b>PLENARY LECTURE</b><br><b>ROGER KORNBURG (USA)</b><br><b>WALLACE FENN LECTURE</b><br><b>The Molecular Basis of Eukaryotic Gene Transcription</b>  |  |  |  |   |   |  |  |  |
| 19:00 - 19:30                  | CLOSING CEREMONY   |  |  |  |   |   |  |  |  |