



| Saturday 29th July 2017 | | Location |
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| 14.30-18.00 | Registration Open and all authors can hang posters | Crowne Plaza |
| 19.00-22.00 | Civic Reception supported by Glasgow City Council | Glasgow City Chambers |
| 19.30-19.40 | Welcome from The Bailie Josephine Docherty | |
| 19.40-19.45 | Response to The Bailie by Patricia Martin | |
| 19.45-19.55 | Opening Presentation <i>Malcolm Finbow</i> | |
| From 19.55 | Buffet Dinner | Glasgow City Chambers |
| From 21.00 | Coaches Depart to Crowne Plaza Hotel | |

| Sunday 30th July 2017 | | Location |
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| 07.30-18.00 | Registration Open | Crowne Plaza |
| 08.45-10.30 | PLENARY SESSION 1 - Vascular Physiology <i>Chairs: Brenda Kwak, Switzerland and Hung-I Yeh, Taiwan</i> | Argyll I and II |
| 08.45-09.00 | Welcome and Introduction <i>Brenda Kwak, University of Geneva, Switzerland</i> | Argyll I and II |
| 09.00-09.45 | Keynote: A Many-Faced Protein: The Yin and yang of Connexins <i>Janis Burt, University of Arizona, USA</i> | |
| 09.45-10.00 | O-1: Localization of Pannexin 1 to Plasma Membrane Caveolin-1 Supports ATP Release and Blood Pressure Regulation <i>Leon DeLalio, University of Virginia, USA</i> | |
| 10.00-10.15 | O-2: Modulation of Cx37-Containing Gap Junctions by SHP-2 and its Functional Consequence for Myoendothelial Communication <i>Petra Kameritsch, Ludwig-Maximilians University, Germany</i> | |



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| 10.15-10.30 | O-3: Targeting Connexin40 Reduces Angiogenesis in The Developing Mouse Retina <i>Jacques- Antoine Haefliger, CHUV Hospital, Switzerland</i> | |
| 10.30-11.00 | Tea/Coffee and Poster Viewing | Argyll Foyer/ Argyll III |
| 11.00-12.15 | PLENARY SESSION 2 – Channel Structure and Trafficking <i>Chairs: Paul Sorgen, USA and Matthias Falk, USA</i> | Argyll I and II |
| 11.00-11.15 | O-4: 3D Electron Microscopy Combined with Multiplex Immunogold Labelling to Localize Phosphorylated forms of Connexin 43 in Ovarian Granulosa Cells <i>Rachael Norris, UConn Health, USA</i> | Argyll I and II |
| 11.15-11.30 | O-5: Intramolecular Signalling in a Cardiac Connexin: Role of Cytoplasmic Domain Dimerization <i>Andrew Trease, University of Nebraska Medical Center, USA</i> | |
| 11.30-11.45 | O-6: Structural Studies of Heteromeric Connexin 26/30 Hemichannels via Atomic Force Microscopy Imaging <i>Pamela Naulin, Pontificia Universidad Catolica De Chile, Chile</i> | |
| 11.45-12.00 | O-7: Ubiquitination Mediates The Selective Sorting of Cx43 into EVS <i>Henrique Girao, IBILI - FMUC - University of Coimbra, Portugal</i> | |
| 12.00-12.15 | O-8: P2X7 Receptor Crosstalk Regulates ATP-Induced Pannexin 1 Internalization <i>Leigh Anne Swayne, University of Victoria, Canada</i> | |
| 12.15-13.15 | Buffet Lunch & Poster Viewing | Argyll Foyer/ Argyll III |
| 13.15-15.05 | PLENARY SESSION 3 - Inflammatory Diseases <i>Morten S Nielsen, Denmark and Marc Chanson, Switzerland</i> | Argyll I and II |
| 13.15-13.20 | Introduction <i>Morten S Nielsen, University of Copenhagen, Denmark</i> | Argyll I and II |
| 13.20-13.50 | Emerging Leader: Role of Connexin43 in cartilage degeneration in osteoarthritis <i>Maria Mayan, INIBIC - University of A Coruna, Spain</i> | |



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| 13.50-14.05 | O-9: Decreased Expression of Connexin43 Protects against Podocyte Damage And Blunts The Progression of Glomerulonephritis <i>Christos Chadjichristos, Inserm, France</i> | |
| 14.05-14.20 | O-10: Connexin 26 Plays a Role in Regulating Pro-Inflammatory Events in The Epidermis <i>Laura Garcia Vega, Glasgow Caledonian University, UK</i> | |
| 14.20-14.35 | O-11: Modulation of (Hemi)Channels in The Enteric Nervous System by Inflammatory Mediators <i>Isola Brown, Michigan State University, USA</i> | |
| 14.35-14.50 | O-12: Pannexin1 Links Lymphatic Function to Lipid Metabolism and Atherosclerosis <i>Filippo Molica, Université de Genève, Switzerland</i> | |
| 14.50-15.05 | O-13: Endothelial Pannexin1 can Regulate Cerebral Myogenic Tone Development, Inflammation, and Severity of Ischemic Stroke <i>Miranda Good, University of Virginia, USA</i> | |
| 15.05-15.35 | Tea/Coffee and Poster Viewing | Argyll Foyer/ Argyll III |
| 15.35-16.45 | PLENARY SESSION 4 – Neuroexcitation <i>Chairs: Steffany Bennett, Canada and Christian Giaume, France</i> | Argyll I and II |
| 15.35-15.50 | O-14: Antidromic-Rectifying Gap Junctions in Mixed Electrical-Chemical Synapses Amplify Chemical Transmission and Promote Escape Behavior in <i>C. elegans</i> <i>Zhao-Wen Wang, Uconn Health, USA</i> | Argyll I and II |
| 15.50-16.05 | O-15: Tubulin-Mediated Transport of Connexin 36 (Cx36) Potentiates. Electrical Plasticity in Neuronal Cells <i>Cherie Brown, York University, Canada</i> | |
| 16.05-16.20 | O-16: Calcium-Dependent Mechanisms Underlying Long-Term Depression of Electrical Synapses in The Thalamic Reticular Nucleus <i>Julie Haas, Lehigh University, USA</i> | |
| 16.20-16.35 | O-17: Frequency-Dependent Asymmetry of Homotypic Electrical Synapses <i>David Koser, German Cancer Research Center and University Hospital Heidelberg, Germany</i> | |



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| 16.35-16.50 | O-18: Modelling Neuronal Excitotoxicity with a New Optogenetic Pannexin-1 Channel <i>Alexander Lohman, University of Calgary/Hotchkiss Brain Institute, Canada</i> | |
| 18.30-20.00 | Buffet Dinner-seated | Crowne Plaza |
| 20.00- 22.00 | Poster Session 1 | Argyll 3 |

| Monday 31st July 2017 | | Location |
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| 08.00-18.00 | Registration Open | Crowne Plaza Foyer |
| 08.50-10.45 | PLENARY SESSION 5- Cancer <i>Chairs: Patricia Martin, UK and Edward Leithe, Norway</i> | Argyll I and II |
| 08.50-09.00 | Welcome and Introduction <i>Patricia Martin, Glasgow Caledonian University, UK</i> | Argyll I and II |
| 09.00-09.30 | Pannexin 1 Channels as Novel Regulators of Malignant Melanoma <i>Silvia Penuela, University of Western Ontario, Canada</i> | |
| 09.30-09.45 | O-19: Cx43 Role in Breast Cancer, A Matter of Context <i>Mélanie Busby, INRS Institut Armand-Frappier, Canada</i> | |
| 09.45-10.00 | O-20: Connexin Hemichannels in Suppression of Breast Cancer Bone Metastasis and Potential Therapeutic Intervention <i>Jean Jiang, University of Texas Health Science Center, USA</i> | |
| 10.00-10.15 | O-21: Bone metastasis: Important role of connexin43 in the dialogue between prostatic cancer cells and osteoblasts <i>Jonathan Boucher, STIM Lab, France</i> | |
| 10.15-10.30 | O-22: Gap Junction Stability Modulates Pancreas Cancer Progression and Metastasis <i>Joell Solan, Fred Hutchinson Cancer Research Center, USA</i> | |



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| 10.30-10.45 | O-23: The Complexity of Connexins and Pannexins in Cancer: RNA and Protein Expression in Human Tumours <i>Trond Aasen, Vall d'hebron Research Institute (VHIR), Spain</i> | |
| 10.45-11.15 | Tea/Coffee and Poster Viewing | Argyll Foyer/ Argyll III |
| 11.15-12.30 | PLENARY SESSION 6 - Channel Gating and Signalling <i>Chairs: David Spray, USA and Luc Leybaert, Belgium</i> | Argyll I and II |
| 11.15-11.30 | O-24: The Moving Parts in Connexin Hemichannels: Coupling Between Extracellular and Intracellular Domains <i>Jorge Contreras, Rutgers University, USA</i> | Argyll I and II |
| 11.30-11.45 | O-25: A Quantized Mechanism for Caspase- and A1 Adrenoceptor-Mediated Activation of Pannexin 1 Channels <i>Yu-hsin Chiu, University of Virginia, USA</i> | |
| 11.45-12.00 | O-26: Differential Roles of The Carboxyl Terminus in Cx43 Channel Gating and Permeation <i>Jose Ek-Vitorin, University of Arizona, USA</i> | |
| 12.00-12.15 | O-27: Connexin43 Hemichannels, ATP Release and The Ca²⁺/ROS Signalling Axis Contribute to The Propagation of Radiation-Induced Bystander Effects in Brain Microvascular Endothelial Cells <i>Delphine Hoorelbeke, Ugent, Belgium</i> | |
| 12.15-12.30 | O-28: CNG Channel-Dependent Regulation of Gap Junction Coupling Activated by Adenosine Receptors in Cerebral Microvascular Endothelial Cells <i>Almke Bader, Leibniz University Hannover, Germany</i> | |
| 12.30-13.30 | Buffet Lunch & Poster Viewing | Argyll Foyer/ Argyll II |
| 13.30-16.00 | Poster Session 2 | Argyll 3 |
| 16.00-17.30 | PLENARY SESSION 7 – Mutations <i>Chairs: Dale Laird, Canada and Trond Aasen, Spain</i> | Argyll I and II |
| 16.00-16.15 | O-29: Deafness Mechanisms Underlying Connexin Deficiency induced Hearing Loss and K⁺-Recycling Impairment is not a Primary Deafness Mechanism for Connexin Deficiency Induced Hearing Loss <i>Hong-bo Zhao, University of Kentucky Medical Center, USA</i> | Argyll I and II |



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| 16.15-16.30 | O-30: Diametric Effects of a Cx30-A88V Mutant in Causing Skin Anomalies yet Protection Against Age-Related Hearing Loss <i>John Kelly, University of Western Ontario, Canada</i> | |
| 16.30-16.45 | O-31: A Mimetic Peptide Restores Cx32 Hemichannel Gating Inhibited by The R220X Mutation that Causes Charcot-Marie-Tooth Disease <i>Mario Bortolozzi, University of Padua, Italy</i> | |
| 16.45-17.00 | O-32: Characterization of ODDD Mutations in the CaM Binding Domain of the Cx43CL <i>Gaëlle Spagnol, University of Nebraska Medical Center, USA</i> | |
| 17.00-17.15 | O-33: Reversal of Abnormal Gap Junctional and Hemichannel Activity in Keratinocytes Harboring Heterozygous GJB2 mutation by siRNA – a Potential Therapeutic intervention for Keratitis-Ichthyosis-Deafness Syndrome <i>Ming-Yang Lee, UCL Institute of Child Health, UK</i> | |
| 17.15-17.30 | O-34: Inhibiting Gain-of-Function Connexin Hemichannels with Human Recombinant Antibodies <i>Fabio Mammano, CNR Institute of Cell Biology and Neurobiology, Italy</i> | |
| 17.30-18.15 | 2019 Future Conference Presentation | |
| | FREE EVENING | |

| Tuesday 1st August 2017 | | Location |
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| 08.00-18.00 | Registration Open | Crowne Plaza Foyer |
| 08.50-10.30 | PLENARY SESSION 8- Heart <i>Chairs: Mario Delmar, USA and Jon Gibbins, UK</i> | Argyll I and II |
| 08.50-09.00 | Introduction <i>Mario Delmar, New York University School of Medicine/Cardiology, USA</i> | Argyll I and II |
| 09.00-09.30 | Pathologic regulation of connexin43 expression in the stressed and infected myocardium <i>James Smyth, The Virginia Tech Carillion Research Institute, USA</i> | |



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| 09.30-09.45 | O-35: Role of Cx43 Hemichannels in Ventricular Arrhythmia Associated with Abnormal Ca²⁺ Homeostasis <i>Maarten De Smet, Ghent University, Belgium</i> | |
| 09.45-10.00 | O-36: NaV1.5 Trafficking is Regulated by a Novel Tubulin-Like Domain in The C-Terminus of Connexin43 <i>Morten Schak Nielsen, University of Copenhagen, Denmark</i> | |
| 10.00-10.15 | O-37: Age-Dependent Decrease of Cx43 Expression is Implicated in Ventricular Fibrosis in Scn5a^{+/-} Mice <i>Justine Patin, L'institut du thorax, INSERM, CNRS, UNIV Nantes, France</i> | |
| 10.15-10.30 | O-38: Sodium Channel Complexes Localized Within the Connexin43 Gap Junction Perinexus Mediate Ephaptic Conduction in the Heart <i>Robert Gourdie, Virginia Tech Carilion Research Institute, USA</i> | |
| 10.30-11.00 | Tea/Coffee and Poster Viewing | Argyll Foyer/ Argyll III |
| 11.00-12.00 | PLENARY SESSION 9 – Interacting Proteins <i>Chairs: Paul Lampe, USA and Arantxa Tabernero, Spain</i> | Argyll I and II |
| 11.00-11.15 | O-39: Absence of N-Glycosylation affects Panx2 Subcellular Localization and its Interaction with The Mitochondrial Protein ATAD3A <i>Rafael Sánchez-Pupo, University of Western Ontario, Canada</i> | Argyll I and II |
| 11.15-11.30 | O-40: Altered Proteomic and Respiratory Characteristics of Cx32KO Mitochondria <i>Stephanie Fowler, University of Ottawa, Canada</i> | |
| 11.30-11.45 | O-41: Structural and Functional Plasticity of Cx36 Gap Junctions Dependent on The Actin Cytoskeleton <i>John O'Brien, University of Texas Health Science Center at Houston, USA</i> | |
| 11.45-12.00 | O-42: A Protein Network Associating Connexins to The Cytoskeleton <i>Luciana Amaral Haddad, Universidade de São Paulo, Brazil</i> | |
| 12.00-12.15 | Short Break | Argyll Foyer/ Argyll III |
| 12.15-13.15 | PLENARY SESSION 10 – Infection and Inflammation <i>Chairs: Brant Isakson, USA and Juan Saez, Chile</i> | Argyll I and II |



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| 12.15-12.30 | O-44: Early Adenoviral Proteins Target Intercellular Communication to Facilitate Viral Replication <i>Patrick Calhoun, Virginia Tech, USA</i> | Argyll I and II |
| 12.30-12.45 | O-45: Human Papillomavirus Type 16 (HPV16) E6 Oncoprotein Controls The Gap Junction Protein Cx43 In Cervical Tumour Cells <i>Sheila Graham, University of Glasgow Centre for Virus Research, UK</i> | |
| 12.45-13.00 | O-46: Connexin43 Hemichannel-Mediated ATP Release Amplifies the Inflammasome Pathway in an Autocrine Manner <i>Odunayo Rotimi, The University of Auckland, New Zealand</i> | |
| 13.00-13.15 | O-47: Reducing NETosis by Targeting Pannexin1 Channels <i>Aderonke Sofoluwe, University of Geneva, Switzerland</i> | |
| 13.15-14.00 | Lunch | |
| 14.00 | Coaches Depart for Day Trips | |
| 14.00-22.00 | Optional Day Trips: Whisky Distillery and Loch Lomond | |

| Wednesday 2nd August 2017 | | Location |
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| 08.00-18.00 | Registration Open | Crowne Plaza Foyer |
| 08.50-11.00 | PLENARY SESSION 11- Nervous System <i>Chairs: Marc Mesnil, France and Roger Thompson, Canada</i> | Argyll I and II |
| 08.50-09.00 | Introduction <i>Marc Mesnil, University of Poitiers, France</i> | Argyll I and II |
| 09.00-09.45 | Keynote: Roles Of Glial Connexins in Healthy and Diseased Brain <i>Christian Giaume, College de France, France</i> | |
| 09.45-10.00 | O-48: Calmodulin, Calmodulin Kinase II and Cx36 at Electrical Synapses <i>Ryan Siu, York University, Canada</i> | |



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| 10.00-10.15 | O-49: Astroglial and Oligodendroglial Connexins Differentially Influence both Acute and Chronic Progressive Experimental Autoimmune Encephalomyelitis <i>Jun-ichi Kira, Kyushu University, Japan</i> | |
| 10.15-10.30 | O-50: A Connexin43 Mimetic Peptide that Inhibits C-Src Exerts Neuroprotective Effects Through the Inhibition of Glial Hemichannel Activity <i>Arantxa Tabernero, University of Salamanca, Spain</i> | |
| 10.30-10.45 | O-51: Targeting MAPK Phosphorylation Sites of The Connexin43 C-Terminal Tail Provides Neuroprotection in Stroke <i>Christian Naus, University of British Columbia, Canada</i> | |
| 10.45-11.15 | Tea/Coffee and Poster Viewing | Argyll Foyer/ Argyll III |
| 11.15-12.30 | PLENARY SESSION 12 – Cell Growth <i>Chairs: Christian Naus, Canada and Masakatsu Watanabe, Japan</i> | Argyll I and II |
| 11.15-11.30 | O-43: Peptide Disruption Of The Cx43:Cyclin E Complex Inhibits Vascular Smooth Muscle Cell Proliferation <i>Scott Johnstone, University of Glasgow, UK</i> | Argyll I and II |
| 11.30-11.45 | O-53: Pivotal Roles of Thioredoxin-Interacting Protein in Gap Junction-Mediated Regulation of Cellular Stress Responses <i>Jian Yao, University of Yamanashi, Japan</i> | |
| 11.45-12.00 | O-54: Connexin-43 (Cx43) Regulates Mitochondrial Dynamics through Macroscopic Autophagy in Dividing Hematopoietic Stem Cells <i>Abhishek Singh, University of Cincinnati, USA</i> | |
| 12.00-12.15 | O-55: Dynamic Regulation Of Cx43 and Panx1 in Human Induced Pluripotent Stem Cell Differentiation <i>Jessica Esseltine, The University of Western Ontario, Canada</i> | |
| 12.15-12.30 | O-56: Epigenetics, Trafficking and Exocrine Signals Regulate Cx43 Function in Endometriosis and Endometrial Cancer - Gap Junctions are Required for Invasiveness in Endometriosis <i>Bruce Nicholson, University of Texas Health Science Center at San Antonio, USA</i> | |
| 12.30-14.15 | Buffet Lunch & Poster Viewing | Argyll Foyer/ Argyll III |



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| 14.15-15.45 | PLENARY SESSION 13 - Translational and Therapeutics <i>Chairs: Rob Gourdie, USA and Mike Koval, USA</i> | Argyll I and II |
| 14.15-14.30 | O-57: Distinct Cellular and Age-Related Mechanisms of Genetic and Pharmacologic Pannexin1 Inhibition Resulting in High Bone Mass <i>Lilian Plotkin, Indiana University School of Medicine, USA</i> | Argyll I and II |
| 14.30-14.45 | O-58: Maintaining Connexin-36 Function in Diabetogenic Environment Precludes Islet Dysfunction and Beta-Cell Death <i>Richard Benninger, University of Colorado, USA</i> | |
| 14.45-15.00 | O-59: Targeting Connexin43 to Prevent Glioblastoma Progression and Recurrence <i>Samy Lamouille, Virginia Tech Carilion Research Institute, USA</i> | |
| 15.00-15.15 | O-60: GJA1-20k Protects The Heart From Ischemic Injury by Inducing Mitochondrial Metabolic Quiescence <i>Ying Fu, Cedars-Sinai Medical Center, USA</i> | |
| 15.15-15.30 | O-61: The Lipidated Connexin Mimetic Peptide, SRPTEKT-Hdc, is a Potent Inhibitor of Cx43-Mediated Intercellular Communication with Specificity for The Ps368 Phospho-Form <i>Maura Cotter, University of Arizona, USA</i> | |
| 15.30-15.45 | O-62: A Novel Connexin 43 Peptidomimetic Influences Wound Closure Rates and Pro-Inflammatory Mediated Events in Skin Model Systems <i>Patricia Martin, Glasgow Caledonian University</i> | |
| 15.45-16.15 | Close of Meeting and Prizes | |
| 16.15 | Business Meeting- The Future | |
| 19.00 | Coaches depart to Conference Dinner | |
| 19.30-23.30 | Conference Dinner | Oran Mor |