



SUNDAY ● OCTOBER 22, 2017

16:00 – 17:00 Ebashi Lecture

Event Hall

Session Chair: Ernesto Carafoli (Venetian Inst. of Mol. Medicine)

Structural Basis of Ion Pumping by Ca^{2+} -ATPase

Chikashi Toyoshima (Institute of Molecular and Cellular Biosciences, The University of Tokyo, Japan)

MONDAY ● OCTOBER 23, 2017

8:30 – 10:25 Session 1 “Intracellular Ca^{2+} Stores”

Event Hall

Session Chair: Colin Taylor (University of Cambridge)

1. **Ryanodine Receptor Structure and Function**
Andrew R Marks (Department of Physiology, Columbia University, United States of America)
2. **Regulation of Calcium Release Through Inositol 1,4,5-trisphosphate Receptors**
David I Yule (Pharmacology and Physiology, University of Rochester, United States of America)
3. **Sticking to acidic Ca^{2+} stores**
Sandip Patel (Department of Cell and Developmental Biology, University College London, United Kingdom of Great Britain and Northern Ireland)
4. **The Role of Acidocalcisomes in Phosphate Homeostasis and Ca^{2+} signaling**
Roberto Docampo (Department of Cellular Biology, University of Georgia, United States of America)
5. **Effects of CICR Activity and Expression Levels of RyR2 on Ca^{2+} Homeostasis in HEK293 Cells**
Nagomi Kurebayashi (Department of Pharmacology, Faculty of Medicine, Juntendo University, Japan)

10:45 – 12:30 Session 2 “Effectors of Ca^{2+} Signaling”

Event Hall

Session Chair: Yasuo Mori (Kyoto University)

1. **Evolution of Ca^{2+} signalling**
Alexei Verkhratsky (The University of Manchester, United Kingdom of Great Britain and Northern Ireland)
2. **S100A4 Regulates Macrophage Invasion by Distinct Myosin-Dependent and Independent Mechanisms**
Anne R. Bresnick (Biochemistry, Albert Einstein College of Medicine, United States of America)
3. **The IP_3 receptor and the Ryanodine Receptor in the Regulation of Autophagy**
Jan B Parys (Dept. Cellular and Molecular Medicine, KU Leuven, Belgium)
4. **Impairment of Ca^{2+} -Dependent Inactivation of TRPC6 Mediated by Calmodulin Underlies Renal Channelopathy**
Masayuki X. Mori (Synthetic Chemistry and Biological Chemistry, Kyoto University, Japan)



5. **Participation of Calcium Binding Protein 1 in Actin Dynamics and Phagocytosis of the Parasite Entamoeba Histolytica**

JANHAWI JANHAWI (SCHOOL OF LIFE SCIENCES, JAWAHARLAL NEHRU UNIVERSITY, India)

14:10 - 15:55 Session 3 "Ca²⁺ Signaling in Neurobiology (glia)"

Event Hall

Session Chair: Kazuhiro Ikenaka (National Institute for Physiological Sciences)

1. **Neuron-Astrocyte Communication in the Spinal Cord of Behaving Mice**

Axel Nimmerjahn (Waitt Advanced Biophotonics Center, Salk Institute for Biological Studies, United States of America)

2. **Monitoring Nanomolar Calcium with FLIM**

Dmitri A Rusakov (UCL Institute of Neurology, University College London, United Kingdom)

3. **Rewiring of Neuronal Networks by Astrocytic Ca²⁺ in the Somatosensory Cortex**

Schuiichi Koizumi (Department of Neuropharmacology, Faculty of Medicine, University of Yamanashi, Japan)

4. **Parvalbumin Alters Mitochondrial Volume and ROS-Level in Oligodendrocyte Progenitor Cells and Mature Oligodendrocytes**

Viktoria Szabolcsi (Dept of Medicine, Anatomy, University of Fribourg, Switzerland)

5. **Transcranial Direct Current Stimulation Triggers Cortical Metaplasticity Through Glial Calcium Elevation**

Hajime Hirase (Brain Science Institute, RIKEN, Japan)

*This session is supported by Glia Assembly in Garnt-in-Aid for Scientific on Innobative Areas.



TUESDAY ● OCTOBER 24, 2017

8:30 – 9:50 **Session 4 “Ca²⁺ Signaling and Cancer”**

Event Hall

Session Chair: Patrick G Hogan (La Jolla Institute for Allergy & Immunology)

1. **Ion channels and promotion of cell death pathways in triple negative breast cancer cells**
Gregory R Monteith (Pharmacy, University of Queensland, Australia)
2. **The SERCA Interactors Calnexin and TMX1 Regulate Mitochondria Metabolism**
Thomas Simmen (Department of Cell Biology, University of Alberta, Canada)
3. **Regulation of the CaMKK β /AMPK Signaling Cascade by Phosphorylation**
Hiroshi Tokumitsu (Division of Medical Bioengineering, Graduate School of Natural Science and Technology, Okayama University, Japan)
4. **Septin 7 Binding to Butyrate-Responsive Elements in the CALB2 Promoter Negatively Regulates Calretinin Expression in Malignant Mesothelioma**
Walter Blum (INSERM/Genomique fonctionnelle des tumeurs solides, U1162, France)

10:10 – 11:55 **Session 5 “Ca²⁺ Signaling in the Heart - Mechanisms and Disease”**

Event Hall

Session Chair: Satomi Adachi-Akahane (Toho University)

1. **Structural Basis and Physiological Significance of Ryanodine Receptor Luminal Calcium Activation**
S.R. Wayne Chen (Physiology and Pharmacology, University of Calgary, Canada)
2. **Calcium-Dependent Regulation of Human Cardiac Sodium Channel Inactivation by Calmodulin**
Walter J Chazin (Biochemistry / Center for Structural Biology, Vanderbilt University, United States of America)
3. **Genetic and Biophysical Basis of Calmodulinopathy, and Functional Rescue by Genome-Editing in Patient-Derived iPS Cardiomyocytes**
Naomasa Makita (Department of Molecular Physiology, Nagasaki University, Japan)
4. **Axial Tubule Junctions Control Rapid Ca²⁺ Release and Induce Maladaptive Electromechanical Remodeling in Atria**
Stephan E Lehnart (Heart Research Center Goettingen, University Medical Center Goettingen, Germany)
5. **Functional Molecular Complexes of Junctophilin-2 and Caveolin-1 are Essential for Ca²⁺ Microdomain Formation in Vascular Smooth Muscle Cells**
Takanori Saeki (Graduate School of Pharmaceutical Science/Department of Molecular and Cellular Pharmacology, Nagoya City University, Japan)



WEDNESDAY ● OCTOBER 25, 2017

8:30 – 10:10 Session 6 “Ca²⁺ Signaling in Neurobiology/Neuropathology”

Event Hall

Session Chair: Jacek Kuznicki (International Institute of Molecular and Cell Biology in Warsaw)

1. **Calcium-Dependent Signaling in Dendritic Spines**
Ryohei Yasuda (Neuronal Signal Transduction, Max Planck Florida Institute for Neuroscience, United States of America)
2. **The NMDA Receptor Calcium Signaling Paradox: Neuroprotection Versus Death Signaling**
Hilmar Bading (Department of Neurobiology, Heidelberg University, Germany)
3. **Neuronal Store Operated Calcium Entry as Novel Therapeutic Target for Treatment of Alzheimer's Disease**
Ilya Bezprozvanny (Department of Physiology, UT Southwestern Medical Center at Dallas, United States of America)
4. **Calmodulin Inhibition of IP₃ Receptor Mediated Calcium Release**
Malene Brohus (Department of Chemistry and Bioscience, Aalborg University, Denmark)

10:30 – 12:10 Session 7 “Ca²⁺ and Mitochondria”

Event Hall

Session Chair: Andrew L Miller (HKUST)

1. **Mitochondrial Calcium Signalling in Cell Life and Death**
Tito Cali (Department of Biomedical Sciences, University of Padova, Italy)
2. **MICU2 Spatially Restricts Ca²⁺ Crosstalk Between IP₃R and MCU Channels by Regulating Threshold and Gain of MICU1-Mediated Inhibition and Activation**
Kevin Foskett (Physiology, University of Pennsylvania, United States of America)
3. **Ca²⁺ Sensing by MICU Proteins for Mitochondrial Ca²⁺ Uptake**
Gyorgy Hajnoczky (MitoCare Center, Thomas Jefferson University, United States of America)

13:50 – 16:00 Session 8 Claude B. Klee Memorial Session, “Calcineurin and Calmodulin - Past, Present, and Future”

Event Hall

Session Chair: Mitsuhiro Ikura (University of Toronto)

1. **All Roads Lead to Calmodulin**
Mitsuhiro Ikura (University of Toronto, Princess Margaret Cancer Centre, Canada)
2. **Direct Measurement of the Strength of Microtubule Attachment to Yeast Centrosomes**
Trisha N Davis (Biochemistry, University of Washington, United States of America)
3. **The Unique Tail of CNAβ1, a Non-Canonical Calcineurin A Isoform, Confers Novel Regulatory Properties and Promotes Membrane Localization**
Martha S Cyert (Department of Biology, Stanford University, United States of America)
4. **Revisiting the Pharmacology of Calmodulin**
Jacques Haiech (University of Strasbourg, Laboratory of therapeutic innovation UMR CNRS 7200, France)
5. **Memories of a Long Friendship**
Ernesto Carafoli (Venetian Inst. of Mol. Medicine)

16:00 – 17:00 Nishizuka Lecture

Event Hall

Session Chair: Katsuhiko Mikoshiba (RIKEN)

Signaling to Transcription: the Calcium-Calcineurin-NFAT Pathway in T Cells

Anjana Rao (Division of Signaling and Gene Expression, La Jolla Institute for Allergy and Immunology, United States of America)



THURSDAY ● OCTOBER 26, 2017

8:30 – 10:15 Session 9 “New Tools of Ca²⁺ Research”

Event Hall

Session Chair: Takeharu Nagai (Osaka University)

1. **Expanding the Range of Affinities and Colours in the Toolbox of Genetically Encoded Ca²⁺ Indicators**
Robert E Campbell (Department of Chemistry, University of Alberta, Canada)
2. **Fluorescent/Bioluminescent Protein-Based Ca²⁺ Probes and Photo Manipulation for Imaging of Physiological Functions**
Tomoki Matsuda (The Institute of Scientific and Industrial Research, Osaka University, Japan)
3. **Optogenetic Control of Calcium Signaling in Cells and Animals**
Won Do Heo (Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), South Korea)
4. **Novel Localized and Transient RyR1 Junctional Calcium Responses and Dynamics by Calcium Sensors, CatchER⁺ and CatchER⁺-JP45**
Cassandra L Miller (Chemistry, Georgia State University, United States of America)
5. **Imaging Intraorganellar Ca²⁺ at Subcellular Resolution Using CEPIA**
Junji Suzuki (Department of Physiology, University of California, San Francisco, United States of America)

10:35 – 12:20 Session 10 “Store - Operated Ca²⁺ Entry”

Event Hall

Session Chair: Mohamed Trebak (Pennsylvania State University)

1. **Regulation of Astrocyte Calcium Signaling and Gliotransmitter Release by Store-Operated Orai1 Channels**
Murali Prakriya (Pharmacology, Northwestern University, United States of America)
2. **The Role of CRAC Channels in Asthma**
Anant Parekh (Oxford University)
3. **Unimolecular STIM-Orai Coupling and Clustering of Orai Channels**
Donald L Gill (Cellular & Molecular Physiology, Penn State College of Medicine, United States of America)
4. **Huntingtin-Associated Protein 1A Increases SOCE in Medium Spiny Neurons from Transgenic YAC128 Mice, a Model of Huntington's Disease**
Magdalena Czeredys (Laboratory of Neurodegeneration, International Institute of Molecular and Cell Biology, Poland)
5. **Ca²⁺-Binding Protein ALG-2 May Function in Modulating Ca²⁺ Homeostasis by Interacting with SARAF**
Wei Zhang (Graduate School of Bioagricultural Sciences, Nagoya University, Japan)



OCTOBER 22~26, 2017

Poster

B1F Lobby

- 1. Characterization of Stim2b^{-/-} Zebrafish**
Iga Wasilewska (Laboratory of Neurodegeneration, International Institute of Molecular and Cell Biology in Warsaw, Poland)
- 2. Phenotyping Novel Transgenic Mice Overexpressing ORA11 in Brain Neurons - FVB/NJ-Tg(Orai1)Ibd**
Jacek Kuznicki (Laboratory of Neurodegeneration, International Institute of Molecular and Cell Biology in Warsaw, Poland)
- 3. A Functional Study of MAP Kinases Pathway in Differentiated PC12 Cells Under Impaired Calcium Homeostasis**
Ludmila Zylinska (Department of Molecular Neurochemistry, Medical University of Lodz, Poland)
- 4. Analysis of CacyBP/SIP and β -catenin Homeostasis in Cacybp Zebrafish Knockout and YAC128 Mice Model of Huntington's Disease**
Magdalena Czeredys (Laboratory of Neurodegeneration, International Institute of Molecular and Cell Biology in Warsaw, Poland)
- 5. Involvement of Nitric Oxide-Induced Calcium Release (NICR) Through Type 1 Ryanodine Receptor in Extinction of Cerebellum-Dependent Motor Learning**
Sho Kakizawa (Graduate School of Pharmaceutical Sciences, Kyoto University, Japan)
- 6. Identification of Ca²⁺ Signaling Components in Proliferating and Differentiating Neurospheres Derived from Primary Neural Stem Cells Isolated from the Zebrafish Brain**
Sarah E Webb (Division of Life Science, HKUST, Hong Kong)
- 7. Phosphatase and Tensin Homolog (PTEN) Loss is Associated with Changes in Calcium Signalling in MDA-MB-231 Cells**
Alice HL Bong (School of Pharmacy, University of Queensland, Australia)
- 8. Investigation of the Role of Ca²⁺ Signaling During Early Embryonic Heart Development in Zebrafish**
Allan Renom (Life Science, Hong Kong University of Science and Technology, Hong Kong)
- 9. Skeletal Muscle Contractile Force Dysfunction Concurrently with Intracellular Ca²⁺ Dysregulation in a Mouse Model of Type 2 Diabetes**
Hiroaki Eshima (Department of Metabolism & Endocrinology, Juntendo university, Japan)
- 10. Complexes of Calcium Waves in Colonic Musculatures of Mice**
Shinsuke Nakayama (Department of Cell Physiology, Nagoya University Graduate School of Medicine, Japan)
- 11. Visualization of Ca²⁺ Filling Mechanisms Upon Synaptic Inputs in the Endoplasmic Reticulum of Cerebellar Purkinje Cells**
Yohei Okubo (Department of Pharmacology, Graduate School of Medicine, University of Tokyo, Japan)
- 12. Cytosolic Ca²⁺ Dynamics Through the SR is Associated with Pathology of Muscular Dystrophy**
Jun Tanihata (Department of Cell Physiology, The Jikei University School of Medicine, Japan)
- 13. Ca²⁺ Signals Originate at Immobile IP₃ Receptors Adjacent to the ER-Plasma Membrane Junctions Where Ca²⁺ Entry Occurs**
Colin W Taylor (Pharmacology, University of Cambridge, United Kingdom of Great Britain and Northern Ireland)
- 14. Inhibition of Type I DGK Leads to a Dual Response on Ca²⁺ Signaling in Pancreatic β -Cells**
Toshiaki Sawatani (Pharmacology, University of Shizuoka, Japan)
- 15. Molecular Basis for Ca²⁺ and Caffeine Action on the RyR2 Channel and Implications in Disease States**
Takashi Murayama (Dept. Pharmacology, Juntendo University School of Medicine, Japan)
- 16. Transport of Vitamin A Via the STRA6 Receptor is Calcium-Dependent**
David J Weber (Biochemistry & Molecular Biology, University of Maryland School of Medicine, United States of America)
- 17. Correlation of Molecular Dynamics Analysis and Ca²⁺ Homeostasis in Mutant Type 1 Ryanodine Receptors**
Toshiko Yamazawa (Department of Molecular Physiology, Jikei University of School of Medicine, Japan)
- 18. Molecular Dynamics Study on the Calcium-Dependent Conformational Change of Calmodulin**
Hiroshi Kawasaki (Department of Medical Life Science, Yokohama City University, Japan)



19. **The Molecular Mechanism by Which Angiotensin II Activates Ca_v1.2 L-type Ca²⁺ Channels in Immature Cardiomyocytes**
Toshihide Kashihara (School of Medicine, Department of Molecular Pharmacology, Shinshu University, Japan)
20. **The Penta-EF-Hand Protein ALG-2 Functions as an Adaptor in Apoptotic Pathway**
Inukai Ryuta (Graduate School of Bioagricultural Sciences, Nagoya University, Japan)
21. **Effects of Altered PMCA Composition on IP₃ Receptors Expression Level and CCL5 - Induced Response in Differentiated PC12 cells**
Elzbieta Rebas (Dept. of Molecular Neurochemistry, Medical University of Lodz, Poland)
22. **Arrhythmogenic Calmodulin Mutations Differentially Impair Inhibition of RyR2-mediated Ca²⁺ Release**
Mads T Søndergaard (Dept. of Chemistry & Bioscience, Aalborg University, Denmark)
23. **TPC2-Mediated Ca²⁺ Signaling is Required for the Establishment of Synchronized Connectivity Within the Zebrafish Embryonic Spinal Circuitry**
Andrew L Miller (Division of Life Science, HKUST, Hong Kong)
24. **Physical Interaction of Junctophilins and the C-terminus of CaV1.1 Subunits is Crucial for the Excitation-Contraction Coupling of the Skeletal Muscle**
Tutomu Nakada (Department of Molecular Pharmacology, Shinshu University School of Medicine, Japan)
25. **The Calcium-Binding Protein ALG-2 Binds to Novel ALG-2-Interacting Proteins, MISSL and MAP1B, and Regulates the Secretory Pathway**
Terunao Takahara (Graduate School of Bioagricultural Sciences, Nagoya University, Japan)
26. **Regulation of Spinogenesis in Mature Purkinje Cells via mGluR/PKC-Mediated Phosphorylation of CaMKII β**
Katsuhiko Mikoshiba (Brain Science Institute, RIKEN, Japan)
27. **Hypoxic Stress Facilitates Cell Proliferation via Dynamin2-Kir2.1 Pathway in Brain Capillary Endothelial Cells**
Hideto Yamamura (Department of Molecular & Cellular Pharmacology, Graduate School of Pharmaceutical Sciences, Nagoya City University, Japan)
28. **A New Splice Variant of Large-Conductance Ca²⁺-Activated K⁺ (BK) Channel α Subunit Alters Human Chondrocyte Function**
Yoshiaki Suzuki (Department of Molecular and Cellular Pharmacology, Graduate School of Pharmaceutical Sciences, Nagoya City University, Japan)
29. **TPC2-Mediated Ca²⁺ Signaling is Required for the Development of Slow Muscle Cells in Zebrafish Embryos**
Jeffrey Jenkin Kelu (Life Science, Hong Kong University of Science and Technology, Hong Kong)
30. **C-Terminal Splice Variants of P/Q-type Ca²⁺ Channel CaV2.1 α 1 Subunits are Differentially Regulated by Rab3-Interacting Molecule Proteins**
Chee Fah Wong (Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Japan)
31. **Mutual Antagonism Between IP₃ and Anti-Apoptotic Bcl-2 Modulates IP₃R Activity by Competing for the Ligand-Binding Domain**
Hristina Ivanova (Laboratory of Molecular and Cellular Signaling, KU Leuven, Belgium)
32. **Secretion of the Phosphorylated Form of S100A9 From Neutrophils is Essential for the Pro-Inflammatory Functions of Extracellular S100A8/A9**
Nicolas Jung (Life Sciences Research Unit (LSRU), University of Luxembourg, Luxembourg)
33. **Identification and Characterization of a Centrosomal Protein, FOR20 as a Novel S100A6 Target**
Kyohei Sakane (Division of Medical Bioengineering, Graduate School of Natural Science and Technology, Okayama University, Japan)
34. **Characterization of Protein Domains Important for the Flubendiamide Action in the Lepidopteran Ryanodine Receptors**
Tatsuki Kurokawa (Department of Synthetic Chemistry and Biological Chemistry, Kyoto University, Japan)
35. **Configuration of SNARE Proteins and Calcium-Dependent Exocytosis**
Yuichi Morimoto (CDBIM, Structural Physiology, The University of Tokyo, Japan)



36. **Deregulation of Calcium Feedback via Calcium Sensor Proteins, GCAPs, Triggers Photoreceptor Death in Dominant Cone-Rod Dystrophy (CORD6) Mouse Model**
Alexander M Dizhoor (Pennsylvania College of Optometry, Salus University, United States of America)
37. **Designing and Validation of Calcium Binding Site in EF-Hand Motif and Comparative Insights into the Site-Specific Binding Affinity**
Gourinath Samudrala (School of Life Sciences, Jawaharlal Nehru University, India)
38. **Multicolor Bioluminescent Calcium Imaging Across Three Orders of $[Ca^{2+}]$ Magnitude in Single Living Cells**
Md. Nadim Hossain (Graduate School of Engineering, Osaka University, Japan)
39. **The Plasma Membrane Calcium Pumps**
Ernesto Carafoli (Venetian Institute of Molecular Medicine, Padova, Italy)
40. **A Pathogenic V1143F Mutation in the Neuronal-Restricted Isoform 2 of the PMCA Pump is Linked with Ataxia in Humans**
Ernesto Carafoli (Venetian Institute of Molecular Medicine, Padova, Italy)
41. **A Novel PMCA3 Mutation in an Ataxic Patient with Hypomorphic Phosphomannomutase 2 (PMM2) Heterozygote Mutations: Biochemical Characterization of the Pump Defect**
Ernesto Carafoli (Venetian Institute of Molecular Medicine, Padova, Italy)
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