

The 2nd International Symposium on the Calcium-sensing Receptor

March 3 - 4, 2015

Program

Gallery 2, Meeting Room
Omni Hotel
San Diego, California

- 7:00-8:00** **Networking Breakfast**
- 8:00-8:10** **Introduction:** Dolores Shoback
- 8:10-8:40** **Session 1: Keynote Presentation in Basic and Translational Research**
Chair: Wenhan Chang
- Gerda Breitwieser (*Weis Center for Research, USA*): Physiological Implications of Calcium-sensing Receptor Trafficking as a Regulator of Signaling
- 8:40-10:10** **Session 2: Molecular and Cellular Physiology of the CaSR**
Co-chairs: Gerda Breitwieser and Christopher Loretz
- 8:40-9:00 Jenny Yang (*Georgia State University, USA*): Molecular Basis of Receptor-mediated Extracellular Calcium Signaling
- 9:00-9:20 Christopher Loretz (*State University of New York-Buffalo, USA*): Evolutionary History of the Extracellular Calcium-sensing Receptor (CaSR)
- 9:20-9:40 Geoffrey Hendy (*McGill University, Canada*): Calcium-sensing Receptor: Regulation of Gene Expression
- 9:40-10:00 Hans Bräuner-Osborne (*University of Copenhagen, Denmark*): Biased Agonists of the Calcium-sensing Receptor
- 10:00-10:10 Katie Leach (*Monash University, Australia*): Biased Signaling from the Calcium-sensing Receptor (CaSR)
- 10:10-10:30** **Networking Coffee Break**
- 10:30-11:50** **Session 3: CaSR and Parathyroid Function**
Co-chairs: Geoffrey Hendy and Edward Brown
- 10:30-10:50 Arthur Conigrave (*University of Sydney, Australia*): Calcium-sensing Receptor and the Parathyroid: Past, Present and Future
- 10:50-11:10 Donald Ward (*University of Manchester, UK*): CaSR and Parathyroid Cell Signaling
- 11:10-11:30 Maria Luisa Brandi (*University of Florence, Italy*): Recent Advances in Parathyroid Cell Secretory Models
- 11:30-11:50 Wenhan Chang (*University of California, San Francisco, USA*): Parathyroid GABABR1 is the Molecular Basis for the Development of Hyperparathyroidism Due to CaSR Deficiency
- 12:00-13:00** **Working Lunch Session: Eat and Listen (Oral Poster Presentation)**
Chair: Enikő Kallay
- Oral presentations will be selected from the top scoring abstracts submitted to the conference for an additional 5-minute slide presentation preceding the poster viewing.
- 13:00-14:00** **Poster Viewing**
- 14:00-15:15** **Session 4: CaSR and Kidney Function**
Co-chairs: William Goodman and Daniela Riccardi
- 14:00-14:25 Pascal Houillier (*Université Paris Descartes, France*): Extraparathyroid CaSR Controls Blood Calcium Concentration Independently of Parathyroid Hormone Secretion

- 14:25-14:50 Hakan Toka (*Harvard Medical School, USA*): Lessons Learned from Kidney-specific CaSR
 14:50-15:15 Tyler Miller (*University of Texas Southwestern Medical Center, USA*): The Extracellular Calcium-sensing Receptor (CaSR) Activates adam10 to Cleave Membrane-Bound Klotho
- 15:15-16:00 Networking Coffee Break**
- 16:00-16:50 Session 5: CaSR and Digestive Function**
 Co-chairs: Arthur Conigrave and Sam Cheng
- 16:00-16:25 Sam Cheng (*University of Florida, USA*): The Calcium-sensing Receptor and Regulation of Intestinal Secretion and Inflammation
 16:25-16:50 John MacLeod (*Queen's University, Canada*): The Extracellular Calcium-sensing Receptor (CaSR) and Intestinal Paracrine Interaction
- 16:50-18:15 Session 6: CaSR in Bone and Marrow**
 Co-chairs: Dolores Shoback and Dengshun Miao
- 16:50-17:15 David Goltzman (*McGill University, Canada*): The Role of CaSR in Bone Homeostasis
 17:15-17:40 Romuald Mentaverry (*Université de Picardie Jules Verne, France*): CaSR and Osteoclasts Functions
 17:40-18:05 Gregor Adams (*University of Southern California, USA*): Calcium-sensing Receptor-Mediated Regulation of Cell Proliferation and Interactions with the Bone Marrow Microenvironment in Multiple Myeloma
 18:05-18:15 Mark Rybchyn (*University of Sydney, Australia*): The Upstream and Downstream of CaSR-dependent Akt Signaling in Human Osteoblasts

Wednesday, March 4

2015

- 7:00-8:00 Networking Breakfast**
- 8:00-8:30 Session 7: Clinical Keynote Presentation**
 Chair: Edward Nemeth
- Edward Brown (*Harvard University, USA*): The Extracellular Calcium (Ca²⁺)-sensing Receptor and Disorders of Ca²⁺-Sensing
- 8:30-9:30 Session 8: CaSR Function in Breast, Skin, and Inflammation**
 Co-chairs: Daniel Bikle and Dolores Shoback
- 8:30-8:50 John Wysolmerski (*Yale University, USA*): The Calcium-sensing Receptor in the Normal Breast and in Breast Cancer
 8:50-9:10 Chia-Ling Tu (*University of California, San Francisco, USA*): CaSR in Epidermal Differentiation and Wound Healing
 9:10-9:30 Ulf Wagner (*Leipzig University, Germany*): Extracellular Calcium Ions Act as a Pro-Inflammatory Danger Signal
- 9:30-9:55 Networking Coffee Break**
- 9:55-11:00 Session 9: CaSR Function in the Brain and Blood Vessels**
 Co-chairs: Wenhan Chang and Stephen Smith
- 9:55-10:00 Wenhan Chang (*University of California, San Francisco, USA*): Introduction

- 10:00-10:25 Stephen Smith (*Oregon Health & Science University, USA*): Calcium-sensing Receptor Regulates Numerous Signaling Pathways in Neurons
- 10:25-10:50 Ubaldo Armato (*University of Verona, Italy*): Could Calcilytics Stall Alzheimer's Disease (AD) Progression?
- 10:50-11:00 Martin Schepelmann (*Cardiff University, UK*): The Calcium-sensing Receptor (CaSR) Regulates Blood Pressure, Vessel Tone and Cardiac Function
- 11:00-12:10** **Session 10: CaSR and Cancer**
Co-chairs: Enikö Kallay and John Wysolmerski
- 11:00-11:10 Enikö Kallay (*Medical University of Vienna, Austria*): The Calcium-sensing Receptor Paradox in Cancer
- 11:10-11:30 Daniel Bikle (*University of California, San Francisco, USA*): CaSR and VDR in Skin Cancer
- 11:30-11:50 Carmen de Torres (*Hospital Sant Joan de Déu, Barcelona, Spain*): The Calcium-sensing Receptor and Neuroblastoma
- 11:50-12:00 Cristina Dumitru (*Yale University*): Heterodimerization of The CaSR and GABA-BR1 Alters G-protein Coupling in Att-20 and HEK-293 cells
- 12:00-12:10 Abhishek Aggarwal (*Medical University of Vienna, Austria*): The CaSR: A Novel Target In Colorectal Cancer Prevention
- 12:10-14:00** **Lunch and Young Investigator Session with Senior Experts**
- 14:00-15:40** **Session 11: Treatment of Hyperparathyroidism with Calcimimetics**
Co-chairs: Edward Nemeth and Masafumi Fukagawa
- 14:00-14:25 Geoffrey Block (*Denver Nephrologists, USA*): Treatment with Cinacalcet and Cardiovascular Outcomes: Analysis of the Evolve Trial
- 14:25-14:50 Masafumi Fukagawa (*Tokai University School of Medicine, Japan*): Cinacalcet, FGF-23/Klotho, and Parathyroid Hyperplasia
- 14:50-15:15 Dolores Shoback (*University of California, San Francisco, USA*): Cinacalcet and primary HPT
- 15:15-15:40 William Goodman (*Consulting Nephrologist, USA*): AMG 416: A Second Generation Calcimimetic
- 15:40-16:30** **Session 12: Genetic Disorders of the CaSR**
Co-chairs: Maria Luisa Brandi and Rajesh Thakker
- 15:40-16:05 Rajesh Thakker (*University of Oxford, UK*): Familial Hypocalciuric Hypercalcemia Types 1-3
- 16:05-16:30 Michael Mannstadt (Harvard Medical School, USA): Autosomal Dominant Hypocalcaemia (Hypoparathyroidism) Types 1 and 2
- 16:30-16:50** **Networking Coffee Break**
- 16:50-18:30** **Session 13: Potential New Indications for Calcimimetics and Calcilytics**
Co-chairs: Arthur Conigrave and Edward Nemeth
- 16:50-17:15 Edward Nemeth (*MetisMedica, Canada*): The Calcium Receptor as a Therapeutic Target
- 17:15-17:40 Daniela Riccardi (*Cardiff University, UK*): Calcilytics as Novel Therapeutic for Treating Asthma
- 17:40-18:05 Jason Yuan (*University of Arizona, USA*): CaSR, a Novel Therapeutic Target for Pulmonary Arterial Hypertension
- 18:05-18:30 Fadil Hannan (*University of Liverpool, UK*): Calcium-sensing Receptor (CaSR) and Glucose Metabolism: Lessons from NUF Mice, with an Activating CaSR Mutation
- 18:30-18:40** **Closing Remarks**
- 18:40-20:00** **Networking Reception on the Sail Terrace**