The 4th International Symposium on the Calcium Sensing Receptor (CaSR)

March 26 – 27, 2020

UCSF Mission Bay Conference Center, San Francisco, California, USA

The symposium will bring together basic, translational, and clinical scientists from different disciplines who study the biochemistry, molecular biology, cell biology, physiology, and pathophysiology of the CaSR and clinical disorders of CaSR function.

The program will feature recent research on the role of the CaSR in skeletal development and physiology, vascular and pulmonary functions, neuronal injury, parathyroid physiology, mineral and energy metabolism, exocrine and transport functions in the gut and kidney, diabetes, inflammation, and cancer cell signalling. Clinical uses of CaSR modulators to treat human disorders, novel molecular structures and actions of the CaSR, and interactions of the CaSR with other signalling pathways will also be highlights.

The program will include lectures from keynote speakers, oral abstract presentations, poster discussion sessions, and forums for young investigators to meet senior experts.

The conference starts Thursday, March 26 at 7:00 am, and ends Friday, March 27 at 6:30 pm. ONLY 250 SEATS ARE AVAILABLE. DEADLINE FOR REGISTRATION IS MARCH 24, 2020

KEY DATES

Early Registration (10% discount): December 1, 2019 to January 31, 2020
Regular Registration: February 1 to March 24, 2020
Abstract Submission: November 1 to December 31, 2019
Late Breaking Abstract Submission: January 15 to 30, 2019

Scientific Program Committee

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Ulf WAGNER (Germany)
Donald WARD (UK)
John WYSOLMERSKI (USA) – Co-chair
Jenny YANG (USA)

For Preliminary Program: https://www.ncire.org/casrsymposium2020
For any questions please contact: CaSRsymposium2020@ncire.org
The 4th Symposium on The Extracellular Calcium-Sensing Receptor  
March 26-27, 2020  
The UCSF Mission Bay Conference Center  
1675 Owens Street, San Francisco, California, USA  
Organized by Northern California Institute for Research and Education  
and University of California San Francisco  

Day 1 (March 26): 7:00 am to 18:30 pm  
-- 7:00 am to 18:30 pm: Arrival and On-site Registration --  

1. 7:40 – 8:15 am: Introduction and Opening Remarks (35')  
   Co-Chairs: Wenhan Chang (USA)/John Wysolmerski (USA)/Dolores Shoback (USA)  
   Historical Perspectives of CaSR Biology, Speaker: Edward M. Brown (USA)  

2. 8:15 – 9:25 am: CaSR Structure and Gene Regulation (dedicated to late Geoff Hendy) (70')  
   Co-Chairs: Arthur Conigrave (Australia)/Donald Ward (UK)  
   i) 8:15 – 8:40 am Presentation #1: Structure, regulation and interactome of CaSR; Speaker: Jenny Yang (Georgia State University, USA)  
   ii) 8:40 – 9:05 am Presentation #2: Disease-associated mutations of the CaSR signaling pathway; Speaker: Rajesh Thakker (University of Oxford, UK)  
   iii) 9:05 – 9:20 am Short Presentation: Regulation of CASR Gene Expression; Speaker: Lucie Canaff (McGill University, Canada)  

3. 9:40 – 10:50 am: CaSR Signaling and Trafficking (70')  
   Co-Chairs: Jenny Yang (USA)/Leonidas Tsiokas (USA)  
   i) 9:40 – 10:05 am Presentation #1: Nutritional Modulators of CaSR; Speaker: Arthur Conigrave (University of Sydney, Australia)  
   ii) 10:05 – 10:30 am Presentation #2: Trafficking of CaSR; Speaker: Gerda Breitwieser (Geisinger, USA)  
   iii) 10:30 – 10:45 am Short Presentation: Phosphate-sensing of CaSR; Speaker: Donald Ward (Manchester University, UK)  

4. 10:50 am – 12:00 pm: CaSR and Renal Functions (dedicated to late Steven Hebert) (70')  
   Co-Chairs: Daniela Riccardi (UK)/Sarah Brennan (Australia)  
   i) 10:50 – 11:15 am: Presentation #1: Targeting CaSR for treating Autosomal Dominant Polycystic Kidney Disease; Speaker: Giovanna Valenti, (University of Bari Aldo Moro, Italy)  
   ii) 11:15 – 11:40 am: Presentation #2: Interaction Between CaSR and NaCl transport; Speaker: Gerardo Gamba Ayala (Universidad Nacional Autónoma de México, USA)  
   iii) 11:40 am – 11:55 pm: Short Presentation: CaSR signaling pathway in the etiology of kidney stones; Speaker: Sarah Howles (UK).  

12:00 – 13:30 pm: Lunch/Poster Viewing (90')  
12:00 – 12:45 pm: Lunch with Experts (45')  
PM: (13:30-18:30)  

5. 13:30 – 14:40 pm: CaSR in Lung/Blood/Vessel (70')
Co-Chairs: Y.S. Prakash (US)/Ulf Wagner (Germany)

1) 13:30 – 13:55 pm: Presentation #1: CaSR in Pulmonary Hypertension; Speaker: Jason Yuan (University of Arizona, USA)
2) 13:55 – 14:20 pm: Presentation #2: CaSR in micropinocytosis and Macrophage Functions; Speaker: Johnathan Canton (Crick Institute, London, UK)
3) 14:20 – 14:35 pm: Short Presentation: CaSR in Cardiomyocytes; Speaker: Rolf Schreckenberg (University of Giessen, Germany)

6. 14:40 – 15:35 pm: CaSR in Gastrointestinal and Inflammatory Functions (55’)
Co-Chairs: Sam Cheng (US)/Kevin Murphy (UK)

1) 14:40 – 15:05 pm: Presentation #1: CaSR in Calciprotein Particle Macropinocytosis and Inflammasome Activation; Speaker: Ulf Wagner (University of Leipzig, Germany)
2) 15:05 – 15:30 pm: Presentation #2: CaSR and Fluid Secretion; Speaker: Sam Cheng (University of Florida, USA)

15:35-16:05 pm: Networking Break #2 (30’)

7. 16:05 – 17:30 pm: Roles of CaSR in CNS Functions (85’)
Co-Chairs: Stephen Smith (US)/Wenhan Chang

1) 16:05 – 16:30 pm: Presentation #1: CaSR ligand signaling in the CNS; Speaker: Stephan Smith (Oregon Health & Science University, US)
2) 16:30 – 16:55 pm: Presentation #2: CaSR Knockout and Calcilytics Prevent Neurodegeneration in A Mouse Model of Alzheimer’s Diseases; Speaker: TBD
3) 16:55 – 17:10 pm: Short Presentation #1: CaSR Regulates Excitability in The Cortex; Speaker: Briana Knight (Oregon Health Science University, USA)
4) 17:10 – 17:25 pm: Short Presentation #2: CaSR Regulates Neuroendocrine Functions in Arcuate Nucleus; Speaker: Mariana Norton (Imperial College London, UK)

8. 17:30 – 18:30 pm: Presentations of ASBMR and NIH Travel Award Oral Posters: (12 x 5’) (60’)
Co-Chairs: Gerda Breitwieser (US)/Eniko Kallay (Austria)
Speakers: Twelve 5-min talks will be selected from highest-ranking abstracts submitted by early-stage investigators receiving ASBMR or NIH travel awards.

Technology Update and Networking Reception (19:00-21:00)

Day 2 (March 27): 8:00 am to 18:30 pm
-- 7:30 am to 18:30 pm: Arrival and On-site Registration --
AM: (8:00- 12:30)

9. 8:00 – 9:10 am: Roles of CaSR in glucose and energy homeostasis (70’)
Co-Chairs: Rajesh Thakker/Fadil Hannan (UK)

1) 8:00 – 8:25 am: Presentation #1: CaSR and Glucose Metabolism; Speaker: Fadil Hannan (University of Oxford, UK)
2) 8:25 – 8:50 am: Presentation #2: CaSR Modulates Gut Hormone Release and Feeding in Rodents; Speaker: Kevin Murphy (Imperial College London, UK)
3) 8:50 – 9:05 am: Short Presentation: Studies of glucose tolerance in G-alpha-11 mutant mice and G-protein signaling; Speaker: Anna Gluck (University of Oxford, UK)

10. 9:10 – 9:50 am: CaSR in Skeletal and Ectopic Calcifications (40’)

11. 10:10 – 11:20 am: CaSR and Cancers (dedicated to late Carmen de Torres Gomez-Pallete) (70′)
   
   Co-Chairs: John Wysolmerski (US)/Martin Schepelmann (Austria)
   
   i) 10:10 – 10:35 am: Presentation #1: The Role of CaSR in Colon Cancer; Speaker: Enikő Kallay (Medical University of Vienna, Austria)
   
   ii) 10:35 – 11:00 am: Presentation #2: The Role of CaSR in Mammary Functions and Tumors; Speaker: John Wysolmerski, (Yale University, USA)
   
   iii) 11:00 – 11:15 am: Short Presentation: CaSR and Neuroblastoma; Speaker: Eliana Goncalves Alves (Spain)
   
12. 11:20 am – 12:30 pm: The CaSR in Signaling Cross-talk (70′)
   
   Co-Chairs: Beate Lanske (US)/Sarah Howles (UK)
   
   i) 11:20– 11:45 am: Presentation #1: Dual Ligand Binding and Signaling Cross-Talk by CaSR/GABABeR Heteromers; Speaker: Jean-Pierre Vilardaga (University of Pittsburgh, USA)
   
   ii) 11:45 am – 12:10 pm: Presentation #2: Is CaSR essential for reproduction? a translational approach; Speaker: Martin B. Jensen (Harvard University, USA)
   
   iii) 12:10 – 12:25 pm: Short Presentation: CaSR as a Modulator of Sensorimotor Decision Making; Speaker: Roshan A. Jain (Haverford College, USA)
   
12:30 – 13:20 pm: Lunch/Poster Viewing (50′)

PM: (13:20-18:30)

13. 13:20 – 14:30 pm: Parathyroid Functions: Preclinical Mouse Models (70′)
   
   Co-Chairs: Michael Mannstadt (US)/Caroline Gorvin (UK)
   
   i) 13:20 – 13:45 pm: Presentation #1: CaSR/GABABR1 Heteromers Mediate Tonic PTH Secretion in Basal and HPT States; Speaker: Wenhan Chang (University of California San Francisco, USA)
   
   ii) 13:45 – 14:10 pm: Presentation #2: The Role of Regulator of G-Protein Signaling 5 (RGS5) in Parathyroid Functions; Speaker: John Olsen (University of Maryland, USA)
   
   iii) 14:10 – 14:25 pm: Short Presentation: Klotho/CaSR Interactions in Parathyroid Hyperplasia; Speaker: Yi Fan (Sichuan University, China)
   
14. 14:30 – 15:40 pm: Parathyroid Functions: Clinical (70′)
   
   Co-Chairs: Maria Luisa Brandi/Filomena Cetani (Italy)
   
   i) 14:30 – 14:55 pm: Presentation #1: Familial Hypocalciuric Hypercalcemia as an Atypical Form of Primary Hyperparathyroidism; Speaker: Ghada El-hajj Fuleihan (American University of Beirut, Lebanon)
   
   ii) 14:55 – 15:20 pm: Presentation #2: Primary Hyperparathyroidism; Speaker: Shonni Silverberg (Columbia University, USA)
   
   
15:40 – 16:00 pm: Networking Break #4 (20′)
15. 16:00 – 18:10 pm: **Repurposing CaSR Modulators for Novel Disease Treatments (130’)**
   **Co-Chairs:** Wenhan Chang (US)/Michael Collins (US)
   i) 16:00 – 16:25 pm: **Presentation #1: Development of Calcimimetics and Calcilytics;**
       **Speaker:** Edward Nemeth, MetisMedica, Canada)
   ii) 16:25 – 16:50 pm: **Presentation #2: Calcilytics as A Therapy for Hypoparathyroidism;**
       **Speaker:** Rachel Gafni (NIDCR, NIH, USA)
   iii) 16:50 – 17:15 pm: **Presentation #3: CaSR As A Pharmaceutic Target for Bone Anabolism;**
       **Speaker:** Dolores Shoback (University of California San Francisco, USA)
   iv) 17:15 – 17:40 pm: **Presentation #4: Targeting the CaR for treating allergic and non-allergic asthma;**
       **Speaker:** Daniela Riccardi (Cardiff University, UK)
   v) 17:40 – 18:05 pm: **Presentation #5: Targeting CaSR for Wound Healing;**
       **Speaker:** Chia-Ling TU (University of California San Francisco, USA)

16. 18:10 – 18:30 pm: **Discussion and Closing Remarks (20’)**
   **Co-Chairs:** Wenhan Chang (USA)/John Wysolmerski (USA)/Dolores Shoback (USA)

**Meeting Adjourned**