3rd International Symposium on:

The Calcium-Sensing Receptor (CaSR)

Florence (Italy), May 11th – 13th, 2017

Organized by

UNIVERSITY OF FLORENCE, FLORENCE, ITALY
MEDICAL UNIVERSITY OF VIENNA, VIENNA, AUSTRIA
UNIVERSITY OF OXFORD, HEADINGTON, UK
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, USA
Promoted by

FONDAZIONE
INTERNAZIONALE
MENARINI

FINAL PROGRAM

Palazzo Ximènes Panciatichi
The symposium will bring together basic, translational, and clinical scientists from different disciplines who study the molecular 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 e.g. skeletal development and physiology, vascular calcification, pulmonary function, neuronal injury, neuroendocrine control mechanisms, parathyroid physiology, mineral metabolism, exocrine and transport functions in the gut and kidney, and cancer cell signalling. Clinical uses of CaSR modulators to treat human disorders, evolutionary, structural and molecular aspects of the CaSR, and interactions between the CaSR and vitamin D will be highlights.

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

Maria Luisa Brandi, Enikő Kállay, Rajesh Thakker and Wenhan Chang

Co-Presidents of the Symposium
Requested patronages
Presidenza del Consiglio dei Ministri – Ministero della Salute
Regione Toscana
Comune di Firenze
Università degli studi di Firenze
Azienda Ospedaliero Universitaria di Careggi

Presidents of the Meeting

Maria Luisa BRANDI
Università degli Studi di Firenze
CTO - SOD Malattie del Metabolismo
Minerale e Osseo
Florence (Italy)

Wenhan CHANG
UCSF Endocrinology & Metabolism
Department of Medicine
University of California
San Francisco (USA)

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Department of Pathophysiology and Allergy
Research
Medical University of Wien (Austria)

Rajesh V. THAKKER
University of Oxford
Radcliffe Department of Clinical Medicine, ODEM
University of Oxford
Oxford (OX - UK)
International Scientific Committee

Hans Bräuner-Osborne, Michael T. Collins, Arthur Conigrave, Rachel Gafni,
Ed Nemeth, Dolores Shoback, John Wysolmerski

Promoted by

Fondazione Internazionale Menarini

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Organizing Secretariat

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www.iec-srl.it
Thursday, May 11th - Afternoon

**OPENING CEREMONY**

01.30 p.m. – 02.00 p.m.  *Welcome addresses*

Maria Luisa Brandi (Florence, I)

Wenhan Chang (San Francisco, USA)

Enikő Kállay (Wien, A)

Rajesh Thakker (Oxford, UK)

02.00 p.m. - 04.30 p.m.  *Session I – Calcium CaSR Signalling*

Chairpersons:  

Frank Bruggeman (Amsterdam, NL)

Ernesto Carafoli (Padova, I)

02.00 p.m. - 02.30 p.m.  *Dolores Shoback* (San Francisco, USA)

The CaSR Discovery Opens Way to the Future

02.30 p.m. - 03.00 p.m.  *Arthur Conigrave* (Sidney, AUS)

Biased Signalling from CaSR

03.00 p.m. - 03.30 p.m.  *Hans Bräuner-Osborne* (Copenhagen, DK)

CaSR Biosignalling
03.30 p.m.- 04.00 p.m.  Donald Ward (Manchester, UK)
Cell Specific CaSR Signalling

04.00 p.m. – 04.30 p.m.  Leonidas Tsiokas (Oklahoma, USA)
Regulation of CaSR by TRPC1Channels

04.30 p.m. – 05.00 p.m.  COFFEE BREAK

05.00 p.m. – 07.15 p.m.  Session II –Pharmacology of the CaSR
Chairpersons:  Maria Luisa Brandi (Florence, I)
TBD

05.00 p.m. – 05.30 p.m.  Gerda E. Breitwieser (Danville, USA)
Pharmacoferones

05.30 p.m.- 06.00 p.m.  Edward F. Nemeth (Toronto, CDN)
Drug Targeting for CaSR

06.00 p.m.- 06.30 p.m.  Letizia Vannucci (Florence, I)
Parathyroid Cell Lines: A Model for in vitro Drug Testing
06.30 p.m. – 07.15 p.m.  *Plenary Lecture*

Chairperson:  **Rajesh V. Thakker** (Oxford, UK)

**Allen M. Spiegel** (New York, USA)

Calcium Actions and its Regulators: from Basic Research to Clinical Applications

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07.15 p.m.  *WELCOME COCKTAIL*
Friday, May 12th – Morning

**08.30 a.m. – 10.30 a.m.**  
**Session III – The Role of CaSR in the Pathogenesis of Calcitropic Disorders**

Chairpersons:  
**Laura Masi** (Florence, I)  
**Dolores Shoback** (San Francisco, USA)

- **08.30 a.m. – 09.00 a.m.**  
  **Rajesh V. Thakker** (Oxford, UK)  
  CaSR Signalling Pathways and Hypercalcemia in Humans

- **09.00 a.m. – 09.30 a.m.**  
  **Michael Mannstadt** (Boston, USA)  
  CaSR and $G\alpha$ in Hypoparathyroidism in Humans

- **09.30 a.m. – 10.00 a.m.**  
  **Giuseppe Vezzoli** (Milan, I)  
  Kidney Disorders

- **10.00 a.m. – 10.30 a.m.**  
  **David Goltzman** (Toronto, CDN)  
  Bone Diseases

**10.30 a.m.-11.00 a.m.**  
**COFFEE BREAK**
11.00 a.m.-12.30 p.m.  Session IV - Young Investigators and Hot Topics

Chairpersons:  
Luisella Cianferotti (Florence, I)  
Geoffrey N. Hendy (Montreal, CDN)

11.00 a.m. - 11.15 a.m.  TBD
11.15 a.m. - 11.30 a.m.  TBD
11.30 a.m. - 11.45 a.m.  TBD
11.45 a.m. - 12.00 p.m.  TBD.
12.00 p.m. - 12.15 p.m.  TBD
12.15 p.m. - 12.30 p.m.  TBD

12.30 p.m. – 02.00 p.m.  LUNCH AND POSTER DISCUSSION
Friday, May 12th – Afternoon

<table>
<thead>
<tr>
<th>Time</th>
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<td>02.00 p.m. - 04.00 p.m.</td>
<td><em>Session V - Preclinical Models</em></td>
<td>Chairpersons:</td>
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<td>Arthur Conigrave (Sidney, AUS)</td>
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<td>Donald Ward (Manchester, UK)</td>
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<td>02.00 p.m. - 02.30 p.m.</td>
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<td>Qing R. Fan (New York, USA)</td>
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<td>Crystal Structure of CaSR</td>
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<td>02.30 p.m. - 03.00 p.m.</td>
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<td>Wenhan Chang (San Francisco, USA)</td>
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<td>CaSR/GABAbR1 Heteromers Mediate PTH Hypersecretion in Hyperparathyroidism</td>
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<td>03.00 p.m. - 03.30 p.m.</td>
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<td>Fadil Hannan (Liverpool, UK)</td>
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<td>Mouse Models for ADH1 and ADH2</td>
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<td>03.30 p.m. - 04.00 p.m.</td>
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<td>Caroline Gorvin (Oxford, UK)</td>
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<td>Stable Cell Lines Expressing Adaptor Protein 2 Mutations to Investigate Signalling Pathways</td>
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<td>04.00 p.m. - 04.30 p.m.</td>
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<td><strong>COFFEE BREAK</strong></td>
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**04.30 p.m.-06.30 p.m.**  
*Session VI - Calcitropic Disorders: News in Medical Treatment*

Chairpersons:  
Rachel Gafni (Bethesda, USA)  
Andrea Lenzi (Rome, I)

04.30 p.m.-05.00 p.m.  
John B. Bilezikian (New York, USA)  
Primary Hyperparathyroidism

05.00 p.m.-05.30 p.m.  
Masafumi Fukagawa (Tokyo, J)  
Secondary Hyperparathyroidism

05.30 p.m.-06.00 p.m.  
Maria Luisa Brandi (Florence, I)  
Hypoparathyroidism

06.00 p.m.-06.30 p.m.  
Michael Collins (Bethesda, USA)  
Treatment for ADH1 in Humans

**06.30 p.m.-08.00 p.m.**  
*Session VII – Non Calcitropic Disorders: Digestive Function*

Chairpersons:  
Eniko Kallay (Wien, A)  
Francesco Tonelli (Florence, I)

06.30 p.m. – 07.00 p.m.  
Chia-Ling Tu (San Francisco USA)  
Role of CaSR in skin wound healing

07.00 p.m. – 07.30 p.m.  
James J. Pestka (East Lansing, USA)  
Control of Gastroenteric Hormones by CaSR

07.30 p.m. – 08.00 p.m.  
Sam Cheng (Gainesville, USA)  
The Role of the CaSR in Gastrointestinal Inflammation
Saturday May 13th - Morning

08.00 a.m. – 09.00 a.m.  *Session VIII – Non Calcitropic Disorders: Blood Vessels*

Chairpersons:  
**Dolores Shoback** (San Francisco, USA)  
TBD

08.00 a.m. – 08.30 a.m.  **Harry Z.E. Greenberg** (London, UK)  
Vasolidation NO/CaSR

08.30 a.m. – 09.00 a.m.  **YS Prakash** (Rochester, USA)  
Calcium Sensing Receptor in Perinatal Airway Disease

09.00 a.m. – 11.00 a.m.  *Session IX – Non Calcitropic Disorders: Cancer*

Chairpersons:  
**Wenhan Chang** (San Francisco, USA)  
**Romuald Mentaverri** (Amiens, F)

09.00 a.m. – 09.30 a.m.  **John Wysolmerski** (New Haven, USA)  
CaSR actions on PTHrP in Breast Cancer

09.30 a.m. – 10.00 a.m.  **Eniko Kallay** (Vien, A)  
Colon Cancer

10.00 a.m. – 10.30 a.m.  **Carmen de Torres** (Barcelona, E)  
Neuroblastoma

10.30 a.m. – 11.00 a.m.  **COFFEE BREAK**
11.00 a.m. – 1.00 p.m.  
**Session X – Future Developments for CaSR Targeted Therapies**

Chairpersons:  
**Elisabetta Cerbai** (Florence, I)  
**Fadil Hannan** (Liverpool, UK)

11.00 a.m. – 11.30 p.m.  
**Daniela Riccardi** (Cardiff, UK)  
Asthma

11.30 p.m. – 12.00 p.m.  
**Seiji Fukumoto** (Tokushima, J)  
Glucose Metabolism

12.00 p.m. – 12.30 p.m.  
**Katie Leach** (Clayton -Melbourne, Australia)  
TBD

12.30 p.m. – 03.00 p.m.  
**LUNCH AND POSTER DISCUSSION**

03.00 p.m. – 03.15 p.m.  
**Concluding Remarks**

**Maria Luisa Brandi** (Florence, I)  
**Wenhan Chang** (San Francisco, USA)  
**Enikő Kállay** (Wien, A)  
**Rajesh Thakker** (Oxford, UK)

**GENERAL INFORMATION**

Meeting venue
The venue for the Meeting will be Palazzo Ximènes Panciatichi, Via Borgo Pinti, 68 - 50121 Florence (Italy)

Secretariat during the Meeting
The Secretariat will be open at the following times:
Thursday, May 11\textsuperscript{th}, from 01.30 p.m. to 07.45 p.m.
Friday, May 12\textsuperscript{th}, from 08.00 a.m. to 08.00 p.m.
Saturday, May 13\textsuperscript{th}, from 08.00 a.m. to 01.30 p.m.

Official language
The official language of the Meeting will be English.

Registration
The Meeting is free to attend. Please confirm the participation to the Organizing Secretariat (Fondazione Internazionale Menarini – Phone: +39 02 55308110 – Fax: +39 02 55305739. E-mail: milan@fondazione-menarini.it) \textbf{within April 28, 2017}.

Technical facilities
Facilities will be available for computer presentations and overhead projections.
A business center with PC (Powerpoint for Windows) will be available for check and preview of presentations. It is essential that speakers take their presentation to the business center at least one hour before the session starts.
The center will be open at the following times:
Thursday, May 11\textsuperscript{th}, from 01.30 p.m. to 07.45 p.m.
Friday, May 12\textsuperscript{th}, from 08.00 a.m. to 08.00 p.m.
Saturday, May 13\textsuperscript{th}, from 08.00 a.m. to 01.30 p.m.

**Lunches and coffee breaks**

Lunches and coffee breaks will be served in the Meeting area.

**Abstracts book**

Participants will receive the Abstract book at the Meeting.

**European CME Credits**

EACCME credits have been requested for May 11\textsuperscript{th}-12\textsuperscript{th}-13\textsuperscript{th} for the following disciplines: Internal Medicine, Metabolic and Diabetes Diseases, Rheumatology, Clinical Biochemistry, Endocrinology, Andrology and Reproduction Medicine.