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University of Calabria, Rende (Cosenza)

Department of Pharmacy, Health Science and Nutrition,

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## Meeting Venue

University Club at University of Calabria, Via Pietro Bucci

87036 Arcavacata di Rende, Cosenza. The International

Airport of Lametia Terme (Catanzaro) is 60 Km from the

University of Calabria. Further travelling information is

available on the web

(<https://www.unical.it/portale/index.cfm>).

## Registration Fee

No fee is to be paid but a registration is needed to

attend the meeting and this should be sent to the

Scientific Secretariat.

## Fellowships and Financial Assistance

A limited number of bursaries will be available upon

request for supporting young researchers (PhDs and Post-

Docs) attending the meeting. The request should be

submitted to the Scientific Secretariat.

<https://pharmacologymeeting.wixsite.com/paintherapeutics>

## Presidents

Giacinto Bagetta

Maria Tiziana Corasaniti

Shinobu Sakurada

Tsukasa Sakurada

Giorgio Sandrini

Paolo Tonin

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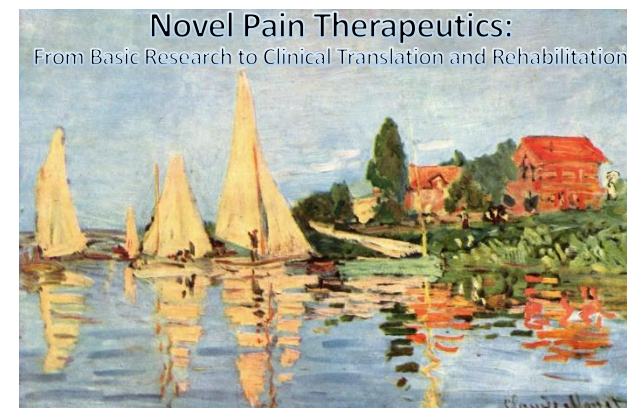
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## Under the Auspices of

Italian Society of Pharmacology

Japanese Society of Pharmacology

Italian Society of Neurological Rehabilitation

## A Collaborative Scientific Initiative of

The University of Calabria, Rende (Cosenza), Italy

The University Magna Graecia, Catanzaro, Italy

The Tohoku Medical and Pharmaceutical University,  
Sendai, Japan

Daiichi University of Pharmacy, Fukuoka, Japan

Sant'Anna Institute for Neurological Rehabilitation,  
Kroton, Italy

**23<sup>rd</sup>-25<sup>th</sup> October, 2019**

**University Club, University of Calabria,  
Rende, (Cosenza), Italy**

**Wednesday 23<sup>rd</sup> October, 2019**

**Afternoon** 17.00 - 19.00

### **Opening Ceremony**

Meeting rationale, *Giacinto Bagetta* (Cosenza)  
Wellcome address, *Gino Mirocle Crisci*, Rector of the University of Calabria (Cosenza)  
Wellcome address, *Maria Luisa Panno*, Head of Department of Pharmacy, Health Science and Nutrition, University of Calabria (Cosenza)  
*Dr Giacomo Giovinazzo*, General Manager, Department of Agriculture and Agrifood Resources, Handling Authority for PSR Calabria 2014-2020, Calabria Region (Catanzaro)  
*Avv. Ezio Pizzi*, President of Unionberg & of Consortium for Protection of Bergamot (Reggio Calabria)

### **Opening Lectures**

17.30 - 19.00

Chairpersons: **Shinobu Sakurada** (Sendai) / **Giacinto Bagetta** (Cosenza)  
*Hiroshi Nagase* (Tsukuba) Design and synthesis of orexin receptor selective ligands and their pharmacology  
*Cristina Tassorelli* (Pavia) At the edge of migraine therapy

### **Welcome Cocktail**

**Thursday 24<sup>th</sup> October, 2019**

**Morning Session** 9.30 - 13.00

Basic Mechanisms of Pain  
Chairpersons: **Diana Amantea** (Cosenza) / **Makoto Inoue** (Urbana-Champaign)  
9.30 - 10.00 *Stefania Ceruti* (Milan) Purinergic mechanisms and glial cells  
10.00 - 10.30 *Oliver J Dolly* (Dublin) SNAP-25 cleaving botulinum neurotoxins suppress cytokine-induced elevation of the surface content in DRGs of pain transducers, TRP/V1 and /A1 channels  
10.30 - 11.00 *Sabatino Maione* (Naples) Role of glutamate and endocannabinoids in the plastic changes associated with neuropathic pain

### **Coffee Break**

Basic Mechanisms of Pain  
Chairpersons: **Luigi Antonio Morrone** (Cosenza) / **Tsukasa Sakurada** (Fukuoka)

11.30 - 12.00 *Shiro Kishioka* (Wakayama) Peripheral administration of  $\alpha 4\beta 2$  nAChR agonist ameliorates neuropathic pain elicited by type 2 diabetes mellitus in mice  
12.00 - 12.30 *Kengo Hamamura* (Fukuoka) Behavioural effects of continuous subcutaneous administration of bergamot essential oil in mice with partial sciatic nerve ligation  
12.30 - 13.00 *Alberto Chiarugi* (Florence) Dex Pramipexole blocks Nav1.8 sodium channels and provides analgesia in multiple nociceptive and neuropathic pain models

13.00 - 15.00 Lunch Break and Poster Discussion

### **Afternoon Session** 15.00 - 18.30

Inflammation and Pain  
Chairpersons: **Laura Berliocchi** (Catanzaro) / **Kosuke Aritake** (Fukuoka)  
15.00 - 15.30 *Hirokazu Mizoguchi* (Sendai) Management of morphine-resistant inflammatory pain  
15.30 - 16.00 *Tomonori Kaifu* (Sendai) A glycosylation enzyme ameliorates experimental autoimmune encephalomyelitis through increasing ligand for an inhibitory C-type lectin receptor  
16.00 - 16.30 *Makoto Inoue* (Urbana-Champaign) The role of extra gonad-derived estrogen in neuroinflammation in multiple sclerosis mouse model

### **Coffee Break**

Histamine in Pain and Itch  
Chairpersons: **Patrizio Blandina** (Florence) / **Shinobu Sakurada** (Sendai)  
17.00 - 17.30 *Tadahiko Nakamura* (Sendai) Behavioral changes related to increased brain histamine  
17.30 - 18.00 *Lorenzo di Cesare Mannelli* (Florence) Histamine in pain modulation: a role for opioid tolerance management  
18.00 - 18.30 *Mariaconcetta Durante* (Florence) Cross-talk between histamine H4 receptor and A3 adenosine receptor on CD4<sup>+</sup> T cells in resolution of neuropathic pain states

**Friday 25<sup>th</sup> October, 2019**

**Morning Session** 9.30 - 13.00

Translational Research  
Chairpersons: **Alberto Chiarugi** (Florence) / **Hirokazu Mizoguchi** (Sendai)  
9.30 - 10.00 *Giulia Magni* (Milan) Purple corn extract as adjuvant therapy for the prevention and treatment of trigeminal pain

10.00 - 10.30 *Serena Boccella* (Naples) Role of PEA in the hippocampal plasticity associated with neuropathic pain  
10.30 - 11.00 *Giovanni Appendino* (Novara) Botanicals and Pain

### **Coffee Break**

Translational Research  
Chairpersons: **Paolo Tonin** (Kroton) / **Hiroshi Nagase** (Tsukuba)  
11.30 - 12.00 *Tatsuro Kohno* (Sendai) Acetaminophen metabolite AM404 induces analgesia via TRPV1 receptors expressed on the c-fiber terminals in the spinal dorsal horn  
12.00 - 12.30 *Francesca Guida* (Naples) Oral cannabidiol prevents allodynia and neurological dysfunctions in a mouse model of mild traumatic brain injury  
12.30 - 13.00 *Roberto Russo* (Naples) TRPM8 modulators in pain perception

13.00 - 15.00 Lunch Break and Poster Discussion

### **Afternoon Session** 15.00 - 18.30

Rehabilitation and Pain  
Chairpersons: **Giorgio Sandrini** (Pavia) / **Shiro Kishioka** (Wakayama)  
15.00 - 15.30 *Roberto De Icco* (Pavia) Vagus nerve stimulation and pain suppression in migraine  
15.30 - 16.00 *Francesco Riganello* (Kroton) Role of the autonomic system in the vegetative status: from pain to consciousness  
16.00 - 16.30 *Gioraio Sandrini* (Pavia) Italian consensus conference on pain in neurorehabilitation: evidence and recommendations in dementia  
16.30 - 17.00 *Damiana Scuteri* (Cosenza) Neuropsychiatric symptoms of dementia: role of pain and essential oil of bergamot as a novel therapeutic

### **Coffee Break**

Future Perspectives in Pain Research  
Chairpersons: **Tatsuro Kohno** (Sendai) / **Oliver J Dolly** (Dublin)  
17.30 - 18.00 *Kosuke Aritake* (Fukuoka) Inhibitor for hematopoietic prostaglandin D synthase accelerates wound healing  
18.00 - 18.30 *Ernesto Fedele* (Genoa) Modulation of glutamate release by presynaptic NMDA receptors as a functional model to investigate pain mechanisms

18.30 **Closing Ceremony**