

PRESIDENTS

Gia dinto Bage tta (Cosenza)
Shinobu Sakurada (Sendai)

INTERNATIONAL ORGANIZING COMMITTEE

Gia dinto Bage tta (Italy)
Gi orgio Be ma rdi (Italy)
Tiziana M. Corasanti (Italy)
Oliver J. Dolly (Ireland)
Dome nicantonio Rotiro ti (Italy)
Shinobu Sakurada (Japan)
Tsukasa Sakura da (Japan)
Gi orgio Sandri ni (Italy)

INTERNATIONAL SCIENTIFIC SECRETARIAT

Laura Berliocchi (Italy)
Hi roka zu Mizoguchi (Japan)
Lui gi A. Morrone (Italy)
Ro bert G. Nisticò (Italy)
Chi zuko Wata nabe (Japan)
Aki hi ko Yonezawa (Japan)

INTERNATIONAL SCIENTIFIC BOARD

Stefano Al ca ro (Catanza ro)
Bruno Aman tea (Catanza ro)
Se bastiano Andò (Cosenza)
Lui o An nun zia to (Naples)
Ro ger Aoki (Irvine)
Giovanni Biggio (Cagliari)
Fa bio Blandini (Pavia)
Giam battista Bonanno (Genoa)
Frances co Bono (Catanza ro)
Nor man G. Bowery (Birmingham)
Paolo Calabresi (Perugia)
Carlo Cal tagi rone (Rome)
Vincenzo Cuomo (Rome)
Kohji Fukunaga (Sendai)
Sil va na Gaetani (Rome)
Stephen P. Hunt (London)
Shi ro Kishioka (Waka yama)
Jin-ichi Inokuchi (Sendai)
Ka zuhide Inoue (Fukuoka)
Marcello Maggiolini (Cosenza)
Sa ba tino Mai one (Naples)
Mar zia Mal cangio (London)
Ni cola B. Mercuri (Rome)
Ma sabumi Minami (Sapporo)
Fla vio Moroni (Florence)
Ha jime Mushi ake (Sendai)
Gi useppe Nappi (Pavia)
Lu cia Negri (Rome)
Pierl uigi Ni co tere (Bonn)
Fla minia Pavone (Rome)
Vin cen zo Pezzi (Cosenza)
An tonio Pisani (Rome)
Ma ri na Pizzi (Brescia)

Paolo Preziosi (Rome)
Aldo Qua ttrone (Catanza ro)
Diego Sis ci (Cosenza)
Idhi ro Sora (Sendai)
Pierfranco Spano (Brescia)
John D. Stephenson (London)
Tsutomu Suzuki (Tokyo)
Cristina Tassorelli (Pavia)
John N. Wood (London)

LOCAL (ITALIAN) SCIENTIFIC COMMITTEE

Diana Aman tea (Cosenza)
Laura Berliocchi (Catanza ro)
Ma ri a Cris ti na Ca roleo (Cosenza)
Laura Rombola (Cosenza)
Rossella Russo (Cosenza)

LOCAL (JAPAN) SCIENTIFIC COMMITTEE

Takaaki Komatsu (Fukuoka)
Takehiko Maeda (Waka yama)
Hi roka zu Mizoguchi (Sendai)
Osamu Nakaga wasai (Sendai)
Koichi Tan-No (Sendai)

ITALIAN EXECUTIVE COMMITTEE

Frances co Blasi (Cosenza)
M. G. Valentina Cassiano (Catanza ro)
Federica Cavaliere (Cosenza)
Antonella Godiaro (Catanza ro)
Ada Ledonne (Cosenza)
Alessandra Leva to (Cosenza)
Ma ri a Maia rù (Catanza ro)
Frances co Petrelli (Cosenza)
Valentina Regio (Cosenza)
Gi useppe Va rano (Catanza ro)

JAPAN EXECUTIVE COMMITTEE

Sei-ichi Furuta (Ota ru)
Isao Ohno (Sendai)
Nobunori Sato (Chiba)
Takumi Sato (Sai tama)
Takeshi Tadan o (Sendai)
Ka zuhi ko Ya nai (Sendai)

LOCAL (ITALIAN) EXECUTIVE SECRETARIAT

Mr. Nicola Fico
Department of Pharmaceutical Sciences, University of Calabria, Via Pietro Bucci, 87036 Rende (Cosenza) Italy Tel 39 0984 493248; Fax 39 0984 493462 Email: fico@unical.it

LOCAL (JAPANESE) EXECUTIVE SECRETARIAT

Dr. Chizuko Watanabe
Department of Physiology and Anatomy, Tohoku Pharmaceutical University, 4-4-1 Komatsushima, Aoba-ku, Sendai 981-8558, Japan Tel/Fax: +81-22-727-0125 Email: w-chizu@tohoku-pharm.ac.jp

MOLECULAR TARGETS FOR NOVEL PAIN THERAPEUTICS

From basic research to clinical translation

A collaborative scientific initiative of



THE TOHOKU PHARMACEUTICAL UNIVERSITY
DEPARTMENT OF PHYSIOLOGY AND ANATOMY



THE UNIVERSITY OF CALABRIA
DEPARTMENT OF PHARMACOBIOLOGY



THE UNIVERSITY MAGNA GRAECIA OF
CATANZARO, FACULTY OF PHARMACY



THE UNIVERSITY OF ROME TOR VERGATA



THE UNIVERSITY CONSORTIUM FOR
ADAPTIVE DISORDERS AND HEADACHE



THE IRCCS SANTA LUCIA FOUNDATION/CERC

Under the auspices

*Ministry of Health
National Institute of Health
The International Society of Neurochemistry
The Italian Society of Pharmacology
The Japanese Society of Pharmacology
Calabria Region
Pharmacists Association of Cosenza
Pharmacists Association of Vibo Valentia
Pharmacists Association of Crotone*

Porto Pirgos Hotel, Parghelia (VV), Calabria, Italy,
22nd – 24th September, 2010

Wednesday, 22nd September

18.00 Welcome address

18.15 Invited Opening Lecture

Chairperson: **Oliver J. Dolly** (Dublin)

Invited Speaker: *Shinobu Sakurada* (Sendai)

Nociceptin-mediated nociceptive spinal transmission system

Thursday, 23rd September

Morning session

MECHANISMS OF PAIN TRANSMISSION

Chairpersons: **Flaminia Pavone** (Rome) & **Shinobu Sakurada** (Sendai)

9.00 *John N. Wood* (London)

From transduction to sensation – genes, cells and circuits

9.30 *Takaaki Komatsu* (Fukuoka)

Intrathecal morphine-3-glucuronide induces nociception through δ^2 -opioid receptors in the spinal cord

10.00 *Lucia Negri* (Rome)

Bv8/Prokineticins and their receptors: A new pronociceptive system

10.30 *Kazuhiko Yanai* (Sendai)

Roles of histamine in pain perception: Studies using histamine-related genes knockout mice

11.00-11.30 *Coffee Break*

PAIN CONTROL AND SENSITIZATION PROCESS

Chairpersons: **Pierluigi Nicotera** (Bonn) & **Akiko Yonezawa** (Sendai)

11.30 *Steve P. Hunt* (London)

Descending control and chronic pain

12.00 *Sabatino Maione* (Naples)

Forebrain TRPV1 receptor and pain mechanisms: role of glutamate and endovanilloids/endocannabinoids in microglial caspase signalling and neural activity in the prefrontal cortex of neuropathic mice

12.30 *Laura Berliocchi* (Catanzaro)

Differential phenotype features of neuropathic pain in mice bearing a dystonic genotype

13.00 *Giandomenico Iannetti* (London)

Functional neuroimaging studies of central sensitization

13.30 **General Discussion**

Lunch Break

Afternoon session

Free oral and poster communications

Friday, 24th September

Morning session

INFLAMMATORY MECHANISMS AND PAIN

Chairpersons: **Tatsuro Kohno** (Niigata) & **Flavio Moroni** (Florence)

8.30 *Marzia Malcangio* (London)

Glial cells: new functions in chronic pain

9.00 *Tatsuro Kohno* (Niigata)

Role of bradykinin and antagonist action of NSAID zaltoprofen on bradykinin-mediated enhancement of AMPA receptor activity in spinal dorsal horn neurons

9.30 *Shiroh Kishioka* (Wakayama)

Leptin and neuropathic pain

10.00 *Cristina Tassorelli* (Pavia)

The endocannabinoid system and migraine

10.30 *Norikazu Kiguchi* (Wakayama)

Role of macrophage inflammatory protein-1 in the pathogenesis of neuropathic pain

11.00-11.30 *Coffee Break*

NOVEL THERAPEUTIC APPROACHES

Chairpersons: **Norman G. Bowerly** (Birmingham) & **Mitsuo Tanabe** (Tokyo)

11.30 *Paola Sacerdote* (Milan)

Recent advances in the molecular pharmacology of opioids are driving to a better pain therapy?

12.00 *Mitsuo Tanabe* (Tokyo)

Analgesic effects of gabapentin in neuropathic states and the descending noradrenergic system

12.30 *Hirokazu Mizoguchi* (Sendai)

A peptidic analgesic for treatment to morphine-resistant intractable pain

13.00 *Hiroshi Nagase* (Tokyo)

Design and synthesis of novel delta opioid agonists and their pharmacologies

13.30 *Oliver J. Dolly* (Dublin)

Novel SNARE-inactivating biotherapeutics with anti-nociceptive potential

14.00 **General Discussion**

Lunch Break

Afternoon session

UCADH ROUND TABLE ON PAIN: FROM BASIC RESEARCH TO REHABILITATION

Chairpersons: **Giuseppe Nappi** (Pavia) & **Giacinto Bagetta** (Cosenza)

17.30 **Introduction by** *Giuseppe Nappi* (Pavia)

17.45 *Laura Berliocchi* (Catanzaro)

Experimental models of neuropathic pain

18.00 *Cristina Tassorelli* (Pavia)

Experimental models of headache

18.15 *Armando Genazzani* (Novara)

Pharmacogenetics of migraine

18.30 *Armando Perrotta* (Pozzilli, IS)

Neurophysiology of headache

18.45 *Giovanni Nicotera* (Cosenza)

Pain clinic and networking in Calabria

19.00 *Giorgio Sandrini* (Pavia)

Pain and rehabilitation

19.15 *Maria Gabriella Buzzi* (Rome)

Aging brain and pain

19.30 **General Discussion**

Chaired by *Fabio Antonaci* (Pavia)

Saturday, 25th September

Closing remarks and Departure