



Convegno Monotematico SIF

**“Advances in pain research:
pathophysiology and new therapeutic strategies”**
Complesso Sant’Andrea delle Dame, Seconda Università di Napoli,
18-19 June 2015, Napoli



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PROGRAM



SOCIETÀ ITALIANA FARMACOLOGIA

Thursday, June 18th

12:00-13:00 **Welcome reception and Registration** - *Aula Donatelli*

13:00-13:30 **Opening and Meeting Presentation**
Francesco Rossi, Sabatino Maione

13:30-14:00 **Honorary Lecture-Tom Salt**, London, UK
"Glutamate circuits and pain processing in the thalamus"

14:00-15:30 **Light lunch**

15:30 -17:00 **Oral Communications – Session 1**
Chair Paola Sacerdote, Milano; Co-chair Patrizia Romualdi, Bologna

Pharmacological characterization of cebranopadol a novel analgesic acting as mixed nociceptin/orphanin FQ and opioid receptor agonist. Calo' G, Rizzi A, Cerlesi MC, Ruzza C, Malfacini D, Ferrari F, Costa T, Guerrini R, Bianco S, Trapella C (Ferrara)

Functional selectivity and analgesic properties of LOR17, a novel kappa opioid receptor (KOR) agonist. Bedini A, De Marco R, Gentilucci L, Spampinato S (Bologna)

Purinergic P2Y2 receptors on satellite glial cells as new potential targets for the pharmacological control of trigeminal sensitization. Magni G, Merli D, Verderio C, Abbracchio MP, Ceruti S (Milano)

Blocking the prokineticin system attenuates synovitis and joint destruction in collagen-induced arthritis (CIA) in mice. Paterniti I, Marconi V, Impellizzeri D, Di Paola R, Fusco I, Balboni G, Lattanzi R, Esposito E, Cuzzocrea S, Negri L (Messina)

17:00-17:30 **Coffe break**

17:30-18:00 **Katarzyna Sratowic**, Krakow, Poland
"The endocannabinoid system and oostearthritis: therapeutic implication"

Thursday, June 19th

9:00-9:30 **Honorary Lecture- Min Zhuo**, Toronto, Canada
“Presynaptic and postsynaptic amplifications of chronic pain and anxiety”

9:30-11:00 **Oral Communications – Session 2**
Chair Lucia Negri , Roma; Co-chair Carla Ghelardini, Firenze

Neuroprotective effects of N-oleoylglycine in a mouse model of mild traumatic brain injury. Piscitelli F, Giordano C, Luongo L, Imperatore R, Cristino L, Maione S, Di Marzo V (Napoli)

Role of RNA binding protein HuD in neuropathic pain: looking for new neuronal targets
Sanna MD, Dawes J, Bennett D, Ghelardini C, Galeotti C (Firenze)

Role of Prokineticin system in different models of neuropathic pain. Maffei D, Franchi S, Amodeo G, Balboni G, Lattanzi R, Sacerdote P, Negri L (Roma)

Palmitoylethanolamide prevents neuropathic pain through a genomic mechanism: role of CB2 receptor Guida F, Luongo L, Romano R, Boccella S, Axerio-Cilies P, Giordano ME, Bellini G, Alameen S, Rossi F.sca, de Novellis, Maione S (Napoli)

11:00-12:30 **Coffe break and poster Session – Cloister**
Chairs: Stefania Ceruti, Milano, Marzia Malcangio, London, UK

12:30-12:45 **Sara Emanuela Pagnotta - Crisel Instruments**
New trends in in vivo optogenetics and electrophysiology

12:45-13:15 **Honorary Lecture - Daniela Salvemini**, Missouri, USA
“Switching off chronic neuropathic pain by switching on the A3 adenosine receptor”

13:15 **Light lunch**

14:00-14:30 **Honorary Lecture - Marzia Malcangio**, London, UK
“Chronic pain treatment: focus on neuroimmune interactions”

14:30-14:45 **Gennaro De Vita - Microtech-Microgem**
“Applications of DNA microarrays in pain research: new insights”

14:45-16:15 **Oral Communications – Session3**

Chair Barbara Costa, Milano; Co-chair Carolina Muscoli, Catanzaro

Role of the Prokineticin receptor 2 (PKR2) in pain sensation. Marconi V, Lattanzi R, Maffei D, Fusco I, Negri L (Roma)

P2X7 receptor/Pannexin 1 system: a target for oxaliplatin-induced neuropathic pain. Di Cesare Mannelli L, Cervetto C, Micheli L, Maresca M, Maura G, Marcoli M, Ghelardini C (Firenze)

Hyperpolarization-activated cyclic nucleotide gated (HCN) channels role in chemotherapy-induced neuropathy. Resta F, Micheli L Masi A Di Cesare Mannelli L, Ghelardini C, Mannaioni G (Firenze)

Human adipose-derived stromal cells and their conditioned medium induce a long lasting relief of painful symptomatology in different models of peripheral neuropathy Franchi S, Amodeo G, Niada S, Ferreira Lorena M J, Milani A, Panerai AE, Brini AT, Sacerdote P (Milano)

Characterization of mechanical and thermal nociception in ageing mice. Scuteri D, Berliocchi L, Tassorelli C, Corasaniti MT, Bagetta G (Cosenza).

16:130 **Concluding Remarks**

Posters

Aiello F, Ligresti A, **Badolato M**, Maestrini V, Luongo L, Frosini M, Pessina F, Sticozzi C, De Petrocellis L, Valacchi G, Maione S, Garofalo A, Corelli F, Di Marzo V, Brizzi A. Targeting the transient receptor potential vanilloid type-1 channel: pharmacological characterization and analgesic properties of a novel family of TRPV1 ligands.

Belardo C, Romano R, Marmo F, Napolitano F, Lauritano A, Guida F, D'Aniello A, Marabese I, de Bartolomeis A, Usiello A, Maione S, de Novellis V. Palmitoylethanolamide reduces pain-related behaviors and restores glutamatergic synapses homeostasis in the medial prefrontal cortex of neuropathic mice.

Caputi FF, Palmisano M, Mazza D, Romualdi P, Candeletti S. pN/OFQ gene expression alteration in rat leukocytes during neuropathic pain.

Ciglieri E, Ferrini F, Salio C. Role of gdnf in diabetes-induced alterations in primary sensory neurons.

De Caro C, Russo R, Avagliano C, Cristiano C, La Rana G, Laura B, Bianchini G, Aramini A, Calignano A. Analgesic effect of a new trpm8 antagonist, dfl23693, in a model of neuropathic pain.

De Felice M, Sagheddu C, Aroni S, Lecca S, Luchicchi A, Melis M, Muntoni A, Romano R, Palazzo E, Guida F, Maione S, Pistis M. Changes in dopamine and serotonin neural activity in a rat model of neuropathic pain.

De Gregorio D, Boccella S, Palazzo E, Giordano M, Mazzitelli M, Comai S, Gobbi G, Rossi F, Maione S. Melatonin MT2 receptor and neuropathic pain: an analgesic effect involving Rostral Ventromedial Medulla.

Furiano A, Giordano ME, Maftai D, Marconi V, Balboni G, Lattanzi R, Negri L, Guida F, Maione S, Luongo L. PC1, a non-peptide PKR1-preferring antagonist, reduces pain behavior and spinal neuronal sensitization in neuropathic mice.

Fusco I, Marcelli S, Marconi V, Congiu C, Onnis V, Teall M, Mitchell P, Negri L. Antihyperalgesic efficacy of bv8 antagonists by oral administration.

Giancotti L A, Lauro F, Ilari S, Morabito C, Montagna C, Gliozzi M, Palma E, Di Giacomo G, Mollace V, Salvemini D, Filomeni G, Muscoli C. Neuropathic pain response in S-nitrosoglutathione reductase (GSNOR) deficient mice: the role of S-nitrosylation.

Iannotta M, Romano R, Belardo C, Covato G, Marabese I, Scafuro M A, Alameen S, Maione S, de Novellis V. D-Aspartate drinking solution alleviates pain and cognitive impairments in neuropathic mice.

Ilari S, Lauro F, Giancotti LA, Morabito C, Tafani M, Gliozzi M, Palma E, Fini M, Russo MA, Mollace V, Salvemini D, Muscoli C. Protective effects of natural antioxidants during acute inflammatory pain: the role of mitochondrial nad⁺-dependent sirt3 deacetylase.

Maresca M, Di Cesare Mannelli L, Micheli L, Farina C, Scherz M W, Ghelardini C. Effects of Dimiracetam on chemotherapy-induced neuropathic pain: preclinical evidence.

Melfi S, Bonalume V, Castelnovo L F, Ballabio M, Simoncini T, Magnaghi V. PKC- ϵ based mechanism as novel putative target for endometriosis pain treatment.

Micheli L, Di Cesare Mannelli L, Tenci B, Ciccocioppo R, Calò G, Rizzi A, Ghelardini C. Involvement of the NOP system in rat morphine tolerance.

Petrelli R, Torquati I, Luongo L, Belardo C, Kachler S, Lavecchia A, NorbertKlotz K, Maione S, Cappellacci L. Novel n6/5'-disubstituted adenosine derivatives as a1 adenosine receptor agonists: synthesis, binding assay and antinociceptive activity.

Shen Q, Domi E, Ubaldi M, Ciccocioppo R, Scuppa G. Effect of pioglitazone on alcohol intake in msP rats with neuropathic pain.

Tenci B, Di Cesare Mannelli L, Pacini A, Corti F, Boccella S, Luongo L, Esposito E, Cuzzocrea S, Maione S, Calignano A, Ghelardini C. Oxaliplatin-induced neuropathy: N-Palmitoylethanolamide prevents nervous maladaptive plasticity and relieves pain.

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