

Naples Pain Conference (NPC):

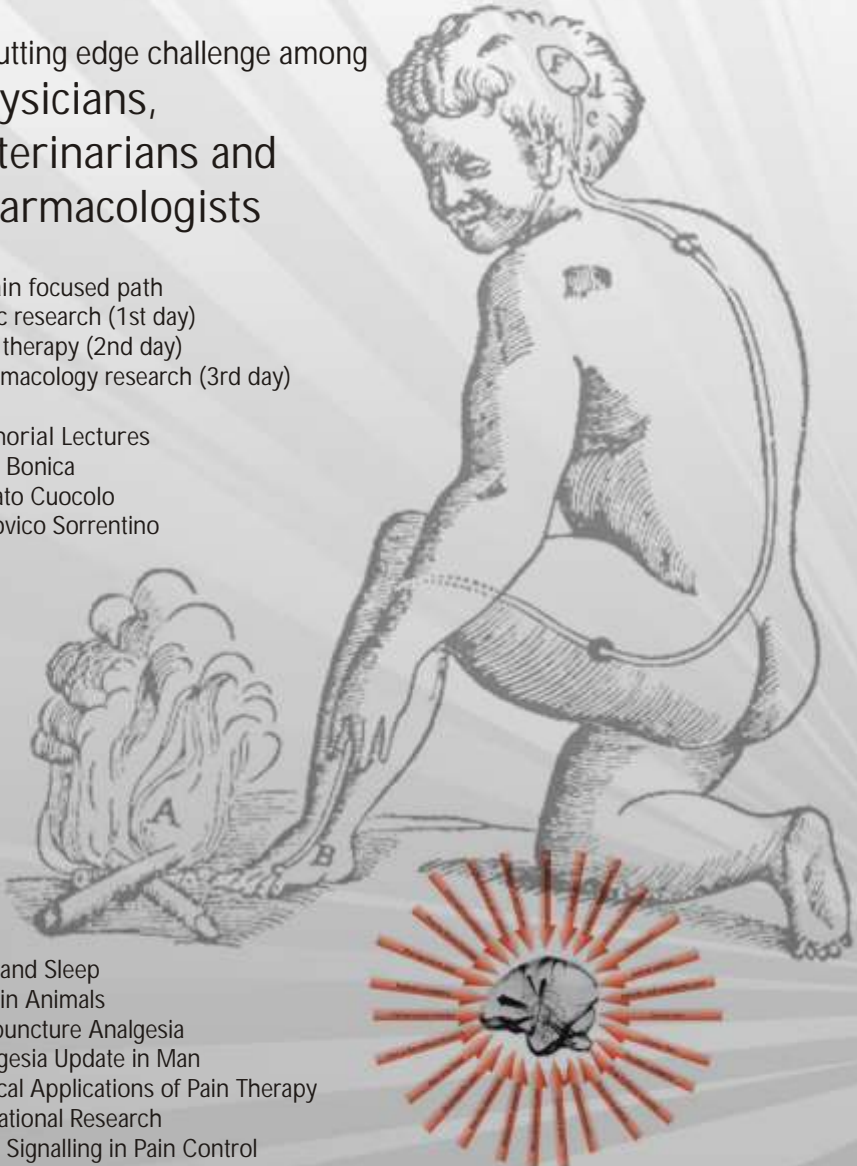
Research and Therapy for human and animal suffering

MAY 16th - 19th, 2010

A cutting edge challenge among
**Physicians,
Veterinarians and
Pharmacologists**

A pain focused path
Basic research (1st day)
Pain therapy (2nd day)
Pharmacology research (3rd day)

Memorial Lectures
John Bonica
Renato Cuocolo
Ludovico Sorrentino



Pain and Sleep
Pain in Animals
Acupuncture Analgesia
Analgesia Update in Man
Clinical Applications of Pain Therapy
Translational Research
Lipid Signalling in Pain Control
Peripheral, Spinal and Supra-Spinal
Mechanisms of Pain Control

Continuing education credits for Vets
on "Pain Therapy" and "Animal Welfare"



Naples Pain Conference

Research and therapy for human and animal suffering



PIO MONTE DELLA MISERICORDIA

www.piomontedellamisericordia.it

CULTURAL HAPPENING

THE EXPRESSION OF PAIN IN ART

Sunday May 16th 2010, 6 p.m.

at the “*Quadreria*” of the Pio Monte della Misericordia
Naples, Via dei Tribunali 253

18.00 - 18.10

WELCOME TO NAPOLI

Prof. Giancarlo Vesce, NPC President

18.10 - 18.20

The “PIO MONTE DELLA MISERICORDIA”

Dr. Gian Paolo Leonetti di Santo Janni,
Soprintendente al Pio Monte della Misericordia

18.20 - 18.30

MESSAGE from His Eminence the Cardinal Crescenzo Sepe,
Archbishop of Naples

18.30 - 18.40

NOSTRA SIGNORA DELLA MISERICORDIA

Dott.ssa Maria Grazia Leonetti Rodinò di Miglione,
former “Governatore al Patrimonio” of the Pio Monte della Misericordia

18.40 - 18.50

GESUALDO DA VENOSA

“Musicorum Princeps, Doloris Princeps”

Kathy Toma, painter, co-author of the book
“GESUALDO DA VENOSA - FASTI DIMENTICATI
DI UN PRINCIPE DEL RINASCIMENTO” 2009

18.50 - 19.00

ANIMAL PAIN IN ANCIENT CHRISTIAN POETRY

Prof. Antonio V. Nazzaro, professor of Ancient Christian Poetry,
former Dean of the Faculty of Humanities at the University of Naples Federico II

Strictly personal invitation to obtain by Pio Monte della Misericordia
Invito strettamente personale da richiedere al Pio Monte della Misericordia

Organizing Institutions



University of Napoli Federico II



Istituto Italiano per gli Studi Filosofici



Second University of Napoli



University "Magna Grecia"
of Catanzaro



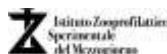
University of Perugia



University of Michigan



College of Veterinary Medicine,
Cornell University, Ithaca, NY.



Istituto Zooprofilattico
Sperimentale del Mezzogiorno



AORN A. Cardarelli - Napoli



Ordini dei Medici Veterinari
della Campania

WELCOME

Naples Pain Conference (NPC):
Research and Therapy for human and animal suffering
MAY 16th - 19th, 2010

“To discuss and present the latest developments in Pain and Therapeutics”

Venue: Centro Congressi dell'Ateneo Federico II,
via Partenope 36 - 80131 - NAPOLI, IT

WELCOME TO A MULTIDISCIPLINARY PAIN CONGRESS:

We are far from a full understanding of pain and analgesia.

All of the human pain treatments are also in the domain of veterinary medicine, substantiating shared pain mechanisms by animals.

The quality and degree of suffering change with the stimulus, the individual, and with states of arousal and affect. These factors in turn alter pain control mechanisms.

In spite of a million years of humankind experience, and the developments in medicine, significant progress with pain knowledge is quite recent. Significant developments from the 1960s include the synthesis of new analgesic molecules and the Gate Control theory of pain, the discovery of the opiate receptor system in the 1970s and the cyclooxygenase discovery in the 1980s. More recent discoveries include evidence of spinal plasticity, of windup mechanisms that can prolong or enhance pain, and the therapeutic value of preemptive and multimodal analgesia. In spite of this progress most pain medications also cause a number of unwanted side effects.

Pain is a huge scientific and social issue raising ethical and economical problems. The Aim of this Conference is to update and share the latest developments regarding Pain mechanisms and therapeutics among basic scientists, physicians, and veterinarians.

On behalf of the scientific and organizing committees, I am honoured to invite you to join the **Naples Pain Conference (NPC):** *Research and Therapy for human and animal suffering.*

Giancarlo Vesce, *NPC President*



Scientific Committee

Conference president

Giancarlo Vesce

University of Napoli "Federico II"



Chairman of the Scientific Committee:

Antonio Calignano

University of Napoli Federico II

Scientific committee

Massimo Amadori

*IZS della Lombardia
e dell'Emilia-Romagna*

Biagio Lettieri

*Second University
of Napoli*

Maurizio Del Giudice

*Istituto Nazionale Tumori
Fondazione G. Pascale*

Ralph Lydic

University of Michigan

Giorgia Della Rocca

University of Perugia (Italy)

Ermenegildo Santangelo

University of Catanzaro

Paula Larenza

*University of Pennsylvania,
Philadelphia*

Charles Short

*Cornell University,
Ithaca, NY*

Organizing Committee

Chairman of the organizing committee

Vincenzo D'Amato

Organizing committee

Carmine Cucciniello

Giuseppe Iovane

Antonino Nizza

Gaetano Oliva

Serenella Papparella

Maurizio Ribezzo

Francesca Romano

Bruna Santangelo

Gaetano Scala

Sabatino Troisi

Luigi Zicarelli

Speakers



Abdalla Karim	<i>School of Medicine - University "Magna Grecia" of Catanzaro</i>
Adiletta Sisto	<i>School of Medicine - Università degli Studi di Napoli Federico II -Naples</i>
Amadori Massimo	<i>IZS della Lombardia e dell'Emilia-Romagna</i>
Caterina Aurilio	<i>School of Medicine - Second University of the Studies of Naples</i>
Baghdoyan Helen A.	<i>University of Michigan Medical School</i>
Brizio Nicola	<i>Acupuncture and Auriculopuncture Unit P.S.I. "S. Maria di Loreto Crispi" ASL NA1</i>
Bufalari Antonello	<i>School of Veterinary Medicine of Perugia (Italy)</i>
Calignano Antonio	<i>School of Pharmacy Federico II University of Naples</i>
Castaldo Sigismondo	<i>DVM - Centro di Biotecnologie A.O.R.N. "A.Cardarelli"</i>
Cavaliere Carlo	<i>School of Medicine - Second University of the Studies of Naples</i>
Conti Maria Beatrice	<i>School of Veterinary Medicine of Perugia (Italy)</i>
Cordella Cinzia	<i>School of Veterinary Medicine, Federico II, Naples</i>
D'Agostino Giuseppe	<i>School of Medicine, Yale University</i>
De Carlo Esterina	<i>IZS del Mezzogiorno</i>
De Nicola Aniello	<i>San Leonardo Hospital, Castellammare di Stabia (NA)</i>
De Rosa Giuseppe	<i>School of agronomy Federico II University of Naples</i>
Della Rocca Giorgia	<i>School of Veterinary Medicine of Perugia (Italy)</i>
Della Valle Maria Federica	<i>Innovet Osteoarthritis Veterinary Association</i>
Di Cesare Mannelli Lorenzo	<i>University of Florence - School of Pharmacy</i>
Di Iorio Carlo	<i>A.O.R.N. "A. Cardarelli" Napoli</i>
Di Martino Irene	<i>School of Veterinary Medicine, Federico II, Naples</i>
Di Marzo Vincenzo	<i>Medical College of Virginia at Virginia Commonwealth University in Richmond</i>
Ferraro Fausto	<i>School of Medicine - Second University of the Studies of Naples</i>
Fillippi Claudia	<i>DVM PhD in Veterinary Anesthesia - Rome Italy</i>
Fonda Diego	<i>School of Veterinary Medicine University of Milano (Italy)</i>
Imeri Luca	<i>Medical School - University of Milan</i>
Lacetera Nicola	<i>School of Agronomy - University della Tuscia</i>
Larenza Paula	<i>School of Veterinary Medicine - University of Pennsylvania, Philadelphia</i>
Lavano Angelo	<i>School of Medicine - University "Magna Grecia" of Catanzaro</i>
Leonardi Fabio	<i>School of Veterinary Medicine of Parma</i>
Lettieri Biagio	<i>School of Medicine - Second University of the Studies of Naples</i>

Speakers



Longo Francesco	<i>Italian Veterinary Acupuncture Society SIAV</i>
Luna Stelio Pacca L.	<i>Faculdade de Medicina Veterinária e Zootecnia - Botucatu - BRAZIL</i>
Luongo Carlo	<i>School of Medicine - Second University of the Studies of Naples</i>
Luongo Livio	<i>Member of Italian Pharmacological Society (SIF)</i>
Lydic Ralph	<i>University of Michigan Medical School</i>
Maffi Sergio	<i>Coordinator of "VETPETPAIN"</i>
Maione Sabatino	<i>School of Medicine - Second University of the Studies of Naples</i>
Martin Jurado Olga	<i>School of Veterinary Medicine of Vetsuisse, University of Zurich</i>
Mascolo Luigi	<i>School of Medicine - Second University of the Studies of Naples</i>
Matassa Rosalba	<i>Ministero della Salute - Dipartimento della sanità pubblica veterinaria</i>
Mattace Raso Giuseppina	<i>School of Pharmacy, Federico II University of Naples</i>
Novello Lorenzo	<i>Italian Society of Veterinary Regional Anaesthesia and Pain Medicine (ISVRA)</i>
Otto Klaus	<i>Hannover Medical School</i>
Palomba Rosa	<i>School of Medicine - Federico II University of Naples</i>
Passavanti Maria Beatrice	<i>School of Medicine - Second University of the Studies of Naples</i>
Pastore Antonio	<i>School of Medicine - Università degli Studi di Napoli Federico II - Naples</i>
Piomelli Daniele	<i>University of California - Director, Drug Discovery and Development IIT - Genoa</i>
Russo Roberto	<i>School of Pharmacy of Federico II University of Naples</i>
Santangelo Bruna	<i>School of Veterinary Medicine, Federico II, Naples</i>
Santangelo Ermenegildo	<i>School of Medicine - University "Magna Grecia" of Catanzaro</i>
Sasso Oscar	<i>School of Pharmacy of Federico II University of Naples</i>
Savoia Gennaro	<i>Cardarelli Hospital , Napoli</i>
Schilling Elizabeth	<i>College of Veterinary Medicine Western University of Health Sciences</i>
Short Charles E.	<i>College of Veterinary Medicine, Cornell University, Ithaca, NY</i>
Silvestri Rosalia	<i>School of Medicine - University of Messina, Italy</i>
Siniscalco Dario	<i>School of Medicine - Second University of the Studies of Naples</i>
Soja, Peter J	<i>School of Pharm. Sciences - The University of British Columbia, B.C.</i>
Sucre Maria José	<i>San Leonardo Hospital, Castellammare di Stabia (NA)</i>
Vesce Giancarlo	<i>School of Veterinary Medicine, Federico II, Naples</i>

Conference Program

May 17th

PAIN AND SLEEP - PAIN IN ANIMALS - ACUPUNCTURE ANALGESIA

08.00 - Conference Registration

09.00 - Conference Opening: "Federico II" Authorities welcome

Guido Trombetti *Rector of the University of Napoli "Federico II"*
Luciano Mayol *President of the Pole for Life Science and Technologies*
Luigi Zicarelli *Dean of the School of Veterinary Medicine*
Giovanni Persico *Dean of the School of Medicine*
Giuseppe Cirino *Dean of the School of Pharmacy*

09.30 - John Bonica memorial lecture

The Past, Present, and Future Standards for Management of Pain
Charles E. Short

Testimonial *John Bonica at Naples* - Alberto del Genio

10.30 - Coffee break

11.00 - PLENARY SESSION - PAIN and SLEEP

CHAIRMEN: **Lydic - Vesce - Di Marzo**



11.00 - Neurochemical mechanisms regulating sleep and pain

Ralph Lydic

11.30 - Brain Regions and Neurotransmitters Mediating Opioid Induced Sleep Disruption

Helen A. Baghdoyan

11.50 - Gating of Sensory Inflow Through Nociceptive Pathways During Sleep

Peter J Soja

12.10 - Immune response, pain and sleep: brain mechanisms mediating cytokine effects on sleep

Luca Imeri

12.30 - Mesolimbic circuits in animal pain and analgesia

Diego Fonda

13.00 - Discussion

13.30 - Lunch break

Conference Program

May 17th



14.30 - PLENARY SESSION - PAIN in ANIMALS

CHAIRMEN: Larenza - Savoia - Di Cesare Mannelli

14.30 - Advances in perioperative pain recognition and management in animals

Paula Larenza

15.00 - Assessment of the dose-dependent effect of butorphanol and morphine on the minimum anaesthetic concentration of isoflurane in chickens

Olga Martin Jurado

15.10 - Analgesic management of chronic osteoarthritic pain

Antonello Bufalari

15.20 - Neuropathic pain in animals: neurophysiological considerations and therapeutical approach

Giorgia Della Rocca

15.30 - Pain assessment in internal medical diseases in dog: preliminary observations

Maria Beatrice Conti

15.40 - Target Controlled Infusion (TCI) of opioids: an overview

Lorenzo Novello

15.50 - Multimodal Sedation and Pain Management in the Equine Dental Patient

Elizabeth Schilling

16.00 - Discussion

16.30 - Coffee break



Conference Program

May 17th

17.00 - Pain management for gastric dilatation-volvulus syndrome and treatment in dogs

Claudia Filippi

17.10 - Value of local anesthesia as means of preemptive analgesia in small animal surgery

Bruna Santangelo

17.20 - Lidocaine constant rate infusion for surgical analgesia in dogs

Cinzia Cordella

17.30 - Attitude of Italian veterinarians interested in small animal surgery to post-operative pain in canine and feline patients: preliminary results from a web-based survey

Sergio Maffi

17.40 - Discussion

17.45 - PLENARY SESSION - ACUPUNCTURE ANALGESIA

CHAIRMEN: Luna - Santangelo - Russo



17.45 - Use of acupuncture for analgesia. What is feasible?

Stelio Luna

18.15 - Non - conventional treatment options for surgical and post - operative analgesia in dogs

Irene Di Martino

18.25 - Analgesic effect of electro-acupuncture during TPLO in dog

Fabio Leonardi

18.35 - Fibromyalgia: how to treat by acupuncture

Nicola Brizio

18.45 - Pain therapy by acupuncture in sport horses

Francesco Longo

18.55 - Discussion



Conference Program

May 18th

PAIN TREATMENT IN MAN AND ANIMALS

08.00 - Conference Registration

09.00 - PLENARY SESSION - ANALGESIA UPDATE in MAN

CHAIRMEN: **Santangelo - Soja - Della Rocca**

09.45 - Renato Cuocolo Memorial lecture
Pain assessment in non-communicating critically ill patients
Ermenegildo Santangelo



Testimonial *Renato Cuocolo and the Neapolitan School of Anaesthesiology*
Rosalba Tufano

10.00 - Pain pathophysiology: an update by Functional Magnetic Resonance
Karim Abdalla

10.10 - Motor Cortex Stimulation (MCS) and Deep Brain Stimulation (DBS) as means of pain treatment
Angelo Lavano

10.20 - Discussion

10.30 - Coffee break

11.00 - PLENARY SESSION - CLINICAL APPLICATIONS OF PAIN THERAPY

CHAIRMEN: **Savoia - Short - Sasso**

11.00 - Acute pain in children
Gennaro Savoia

11.30 - Cancer pain treatment
Aniello De Nicola

11.50 - Pain management in the intensive care unit
Maria José Sucre

Conference Program

May 18th



12.10 - Thoracic epidural analgesia

Carlo Di Iorio

12.30 - Spinal cord stimulation in chronic pain control

Fausto Ferraro

12.50 - Emotional and physical pain in women with neurological pain related conditions: headache, fibromyalgia and RLS

Lia Silvestri

13.10 - Discussion

13.30 - Lunch break

15.00 - PLENARY SESSION - TRASLATIONAL RESEARCH

CHAIRMEN: **Otto - D'Agostino - Ferraro**



15.00 - Adequate depth of anaesthesia - How can we avoid conscious perception of pain during experimental surgery in laboratory animals?

Klaus Otto

15.30 - Analgesic refinement of painful experiments in laboratory animals

Giancarlo Vesce

15.50 - MR analyses of gliosis and glutamate excitotoxicity in a mouse neuropathic pain model

Carlo Cavaliere

16.00 - Analgesic strategy in swine experimental surgery models

Sigismondo Castaldo

16.10 - Discussion

16.30 - Coffee break

Conference Program

May 18th

ANIMAL WELFARE - ALTERNATIVE PAIN TREATMENT

08.30 - SESSIONE PARALLELA (Aula A)
IL BENESSERE NEGLI ANIMALI DA REDDITO



09.00 - Apertura dei lavori

Antonio Limone - *Commissario Istituto Zooprofilattico Sperimentale del Mezzogiorno*
Giuseppe Iovane - *Direttore Istituto Zooprofilattico Sperimentale del Mezzogiorno*

09.30 - La Legislazione in vigore sul benessere degli animali da reddito
Rosalba Matassa

10.00 - L'approccio immunologico alla valutazione del benessere animale
Massimo Amadori

10.30 - Coffee break

11.00 - Problemi pratici di adattamento all'ambiente delle bovine da latte con particolare riferimento allo stress da caldo
Nicola Lacetera

11.30 - Valutazione del benessere animale in allevamento con il metodo Welfare Quality®
Giuseppe De Rosa

12.30 - Adattamento all'ambiente di allevamento della specie bufalina
Esterina De Carlo

13.00 - Discussion

13.30 - Lunch break



Il corso si inserisce nell'ambito del progetto di ricerca finalizzata "L'adattamento degli animali agli ambienti di allevamento: ricadute su patologie e consumo di farmaci" (PRF 2006201, responsabile scientifico Dott. Massimo Amadori), finanziato dal Ministero della Salute e comprendente un'unità operativa rappresentata dall'Istituto Zooprofilattico Sperimentale del Mezzogiorno (responsabile scientifico Dott.ssa Esterina De Carlo).

Conference Program

May 18th



15.00 - SESSIONE PARALLELA (Aula A)
ALTERNATIVE PAIN TREATMENTS

CHAIRMEN: **Lettieri - Bufalari - Calignano**

15.00 - Effect of autonomic nervous system dysfunction on sudden death in ischemic patients with anginal syndrome died during electrocardiographic monitoring in ICU

Biagio Lettieri

15.30 - Ozone therapy in the treatment of pain in veterinary medicine

Carlo Luongo

15.45 - Action of oxygen-ozone mixture on activity of cytokines

Dario Siniscalco

16.00 - Analgesic effect of oxygen-ozone therapy in arterial obstructive pathology

Luigi Mascolo

16.15 - Discussion

16.30 - Coffee break

17.00 - SESSIONE PARALLELA (Aula A)
OPIOID THERAPY and PAIN MEASUREMENT

CHAIRMEN: **Chiefari - Fonda - Maione**

17.00 - Endocrine consequences of opioid therapy

Caterina Aurilio

17.30 - Multimodal analgesia: how and why?

Sisto Adiletta

17.45 Mechanisms underlying analgesic tolerance and hyperalgesia to opioids

Antonio Pastore

18.00 - Pelvic pain evaluation in humans

MB Passavanti

18.15 - Discussion

Conference Program

May 19th

PHARMACOLOGY and PHARMACEUTICAL RESEARCH



08.30 - Conference Registration



09.00 - PLENARY SESSION - LIPID SIGNALLING in PAIN CONTROL:
GENERAL CONCEPTS

CHAIRMEN: **Piomelli** - **Baghdoyan** - **Della Rocca**

09.00 - Ludovico Sorrentino Memorial
Endocannabinoid regulation of anxiety and mood
Daniele Piomelli

Testimonial *A memory of Ludovico Sorrentino*
Daniele Piomelli

10.00 - **Role of neurosteroids in the analgesic and anti-hyperalgesic effects of PEA**
Oscar Sasso

10.15 - **Palmitoylethanolamide induces neurosteroids synthesis in C6 cells through PPAR-ALPHA dependent mechanism**
Giuseppina Mattace Raso

10.30 - **Use of palmitoylethanolamide (PEA) for controlling pain in small animal veterinary medicine: pre-clinical and clinical data**
Maria Federica della Valle

10.45 - **Discussion**

11.00 - **Coffee break**

Conference Program

May 19th

11.30 - PLENARY SESSION

**LIPID SIGNALLING in PAIN CONTROL:
CELLULAR AND MOLECULAR TARGETS**



CHAIRMEN: Di Marzo - Otto - De Nicola

**11.30 - Role of TRP channels in pain and their interactions with
phytocannabinoids and endocannabinoids**

Vincenzo Di Marzo

**12.00 - Involvement of opioid and cannabinoid receptors in the
oxytocin-induced antihyperalgesic effect following ICV
administration**

Roberto Russo

**12.15 - Central PPAR-alpha activation reduces pain and
hyperalgesia in mice via nuclear factor kB inhibition**

Giuseppe D'Agostino

12.30 - Neuropathic pain: looking for a disease modifying agent

Lorenzo Di Cesare Mannelli

**12.45 - Endocrine and behavioural effects of transdermal
buprenorphine in pain-suffering women of different
reproductive ages**

M. Caterina Pace

13.00 - Discussion

13.30 - Lunch break

Conference Program

May 19th

15.00 - PLENARY SESSION - PERIPHERAL, SPINAL AND SUPRA-SPINAL MECHANISMS OF PAIN CONTROL

CHAIRMEN: **Maione - Lydic - Vesce**



15.00 - Forebrain pain mechanisms
Sabatino Maione

15.30 - Anesthetic - dependent actions on descending control of the spinothalamic tract
Peter J Soja

16.00 - Microglia activation in neuropathic pain is regulated by cannabinoid system
Livio Luongo

16.30 - The palmitoylethanolamide: an important tool for pain management
Antonio Calignano

17.00 - Discussion

17.30 - CONFERENCE CLOSURE

Naples

Discover Naples & Local Culture

May is a special season for the City of Napoli: spring climate and cultural happenings typically attract tourists at this time of the year.

Pompeii, Capri, the Sorrento and the Amalfi coasts are close enough to be easily reached from the city centre.

Exclusive guided tours for conference attendees and accompanying guests persons will be available at reduced price by the travel agency Trial Travel: <http://www.italytraveller.com/en/c/agency-trial-travel>.

Every year, during the month of May the City promotes art exhibitions and special guided tours of the metropolis and surrounding area. Monuments and old buildings which can't be visited during the remaining of the year are kept open during the month of May in a happening named "Naples open doors".

A daily ordered event program named "**Maggio dei monumenti**" is launched every year by the City Council, to guarantee an intense cultural activity covering all arts.

16th edition of Maggio dei Monumenti

Every year, the month of May in Naples is filled with cultural events with Maggio dei Monumenti.

The 2010 edition, called "Viaggio nella storia" (Travel in Naples history) cover weekends in the month of May. Most of the famous Neapolitan museums do offer discounted rates and some are free of charge during the Maggio dei monumenti weekends.



2010 Maggio dei Monumenti calendar

Weekend 15-17 May:

Walk from Castel dell'Ovo to Piazza San Domenico Maggiore

Weekend 22-24 May:

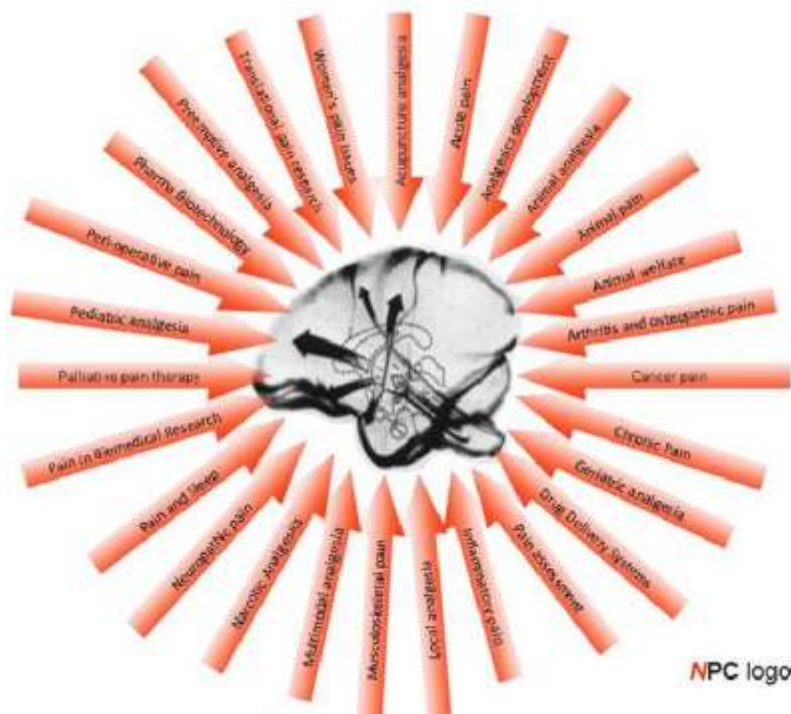
Walk from Museo Archeologico to Teatro Romano

Note

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DE MARIA



La Marchesa®



MINI

METROPOLITANA DI NAPOLI SpA