

FENS

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EUROPEAN PAIN SCHOOL 2003

University of Siena, Italy

Chronic Pain a Disease: Novel Scientific Concepts

Venue: University of Siena, Tuscany, Italy
Certosa di Pontignano (Historical Site)

Date: October 25 to 31, 2003

Web: www.unisi.it/pain-school/

Audience: Advanced PhD students and Postdocs in Neuroscience
and related fields relevant to Pain

Main topics

Physiology and Neurobiology of Pain

Nervous System Plasticity and Pain

Biochemistry, Pharmacology and Clinical Pharmacology of Pain

Molecular Genetics of Pain

Gene Therapy of Pain

Neurology and Neuroimaging of Pain

Pain Psychology and Pain Assessment

Behavioral Neurophysiology of Pain

Chronic Pain Syndromes and Headache: Mechanisms, Treatment and Management

Acute and Chronic Pain from Viscera and Muscles

Epidemiology of Pain, Pain in Education and Health Systems

Chair and Scientific Programme

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Management of the School

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Mission of the Pain School

Chronic Pain has recently been recognized a disease entity which may become independent of an initial somatic cause and often shows progressive chronicity, which in some languages has been termed “chronification”. Chronic pain causes an enormous amount of suffering and disability, resulting in direct medical and indirect social costs in European countries that amount to at least 500 Million € per 1 Million of population annually. Basic and clinical research have resulted in the scientific understanding of progressive pain chronicity. The mechanisms involve long term nervous system plasticity that results in sensitization of the pain system under repeated or prolonged pain. A number of somatic and psychosocial risk factors have been identified which facilitate chronicity, e.g. in low back pain, neuropathies, fibromyalgia and headaches.

The European Pain School will provide a comprehensive and interdisciplinary training to younger scientists to improve the understanding, prevention and treatment of chronic pain in European Health systems.

International Cooperation and Support

FENS Federation of the European Neuroscience Societies

EFIC European Federation of IASP Chapters

IBRO International Brain Research Organization

Sponsors

The Teachers and Students gratefully acknowledge Educational Grants provided by

- **FENS**, The Federation of European Neuroscience Societies

- **Mundipharma** Central and Eastern Europe

Programme, short version

- 25 Sat Arrival of Students and Teachers at the Certosa di Pontignano
19:00 Informal Gathering, Dinner
- 26 Sun Opening by FENS (Jolanta Zawilska) and the University of Siena (Giancarlo Carli)
Introduction to the School, Programme and Organization (Anna Maria Aloisi)
Introduction to Pain in Health Systems, Education and Research in Europe (Manfred Zimmermann)
Pain in Figurative Art (Paolo Procacci)
Basic Physiology and Neurobiology of Pain (Manfred Zimmermann)
The Imaging of Pain in the CNS (Carlo Porro)
Self-Introduction of Students
- 27 Mon Referred Pain from Viscera and Muscle, Neurophysiology of Head Zones (Maria Adele Giamberardino)
Neurobiology of Neuropathic Pain (Claudia Sommer)
Clinical Concepts of Neuropathic Pain (Claudia Sommer)
Presentation of Students' scientific work
- 28 Tue Psychology of Pain and Pain Chronicity (Johan Vlaeyen)
Deep somatic pain in relation to physical exercise and body posture in humans (Giancarlo Carli)
Behavioral Aspects of Pain in Animals (Giancarlo Carli)
Basic Neuroscience of Headache and Migraine (Peter Goadsby)
Students' Presentations
- 29 Wed Clinical Concepts of Headache and Headache Treatment (Peter Goadsby)
Biochemistry and Pharmacology of Pain (Rafael Maldonado)
Guided Excursion to Siena
- 30 Thu Basic Approaches to Gene Therapy (Michel Pohl)
Gene Therapy of Pain (Michel Pohl)
Analgesic Drugs and Psychology: The Placebo Effect (Fabrizio Benedetti)
Clinical Management of Pain (Anita Holdcroft)
Pain and Dementia: does a demented patient suffer? (Fabrizio Benedetti)
Students' Presentations
- 31 Fri Receptors, Channels and Genes in the Neuronal Transduction of Pain (Peter Reeh)
Pain, Stress and Hormones in Animal Models (Anna Maria Aloisi)
Gender and Human Pain (Anita Holdcroft)
Students' Presentations
Summary and Conclusions of School
Farewell Party
- 01 Sat Departures

Social Activities

- Guided Tour to Siena City Historical Highlights
Social Dinner in Siena Downtown Traditional Restaurant

International Faculty

Aloisi, Anna Maria, Dept. Human Physiology, University of Siena, Italy
Benedetti, Fabrizio, Dept. Clinical Physiology, University of Torino, Italy
Carli, Giancarlo, Dept. Human Physiology, University of Siena, Italy
Giamberardino, Maria Adele, Dept. Medicine & Science of Aging, University of Chieti, Italy
Goadsby, Peter, National Hospital for Neurology & Neurosurgery, London, UK
Holdcroft, Anita, Dept. Anaesthesia, Imperial College, London, UK
Maldonado, Rafael, Dept Neuropharmacology, University Pompeu Fabra, Barcelona, Spain
Pohl, Michel, Faculty of Medicine Pitié-Salpêtrière, Paris, France
Porro, Carlo, Dept. Human Physiology, University of Udine, Italy
Procacci, Paolo, Dept. Internal Medicine, University of Florence, Italy
Reeh, Peter, Dept. Physiology & Experim. Pathophysiology, University of Erlangen, Germany
Sommer, Claudia, Dept. Neurology, University of Würzburg, Germany
Vlaeyen, Johan, Dept. Medical Psychology, University of Maastricht, The Netherlands
Zawilska, Jolanta, Polish Academy of Science, Lodz, Poland, Representative of FENS
Zimmermann, Manfred, Neuroscience and Pain Research Institute, Heidelberg, Germany

Interactive Structure of the School

Five main lectures per day by invited teachers of international reputation
Discussion guided by other teacher
Small group informal discussion, 1 Teacher and 15 Students
Students' presentations from their own work
Student's topical interactions prepared from literature

Time Table of a typical School Day

07:30 – 08:00 Group Wake Up Exercise in Cloister
08:15 – 08:45 Breakfast
09:00 - 09:30 Lecture 1
09:30 - 10:00 Discussion
10:00 - 10:30 Lecture 2
10:30 - 11:00 Discussion
11:00 – 11:30 Coffee
11:30 - 12:00 Lecture 3
12:00 - 12:30 Discussion
12:30 - 14:00 Lunch
14:00 – 14:30 Garden Walks
14:30 – 15:00 Lecture 4
15:00 - 15:30 Discussion
15:30 – 16:00 Students' presentations and discussion
16:00 – 16:30 Coffee
16:30 – 17:00 Lecture 5
17:00 – 17:30 Discussion
17:30 – 18:30 Students' presentations and discussion
18:30 – 19:00 Planning Students' contributions for the next day
19:00 – 19:30 Reception
19:30 – 21:00 Dinner