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Novel Pharmacological Approaches in Migraine Therapy

**University of Calabria, Rende (Cosenza), Italy
September 19th-20th, 2024
Aula Magna**

A Collaborative Scientific Initiative of

**The University of Calabria, Rende (Cosenza), Italy,
The University Magna Graecia, Catanzaro, Italy,
Sant'Anna Institute, Kroton, Italy**

Under the Auspices of

NEXTGENERATIONEU (NGEU) and the Ministry of University and Research (MUR), National Recovery and Resilience Plan (NRRP), project MNESYS (PE0000006)—A Multiscale integrated approach to the study of the nervous system in health and disease (DN. 1553 11.10.2022)

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Italian Society of Neuroscience (SINS)

Italian Society for the Study of Headache (SISC)

Italian Society of Neurological Rehabilitation (SIRN)

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Keynote Speakers & Chairs

Gennarina Arabia (Catanzaro), Oliver J Dolly (Dublin), Philip R Holland (London), Antonio Leo (Catanzaro), Sabatino Maione (Naples), Paolo Martelletti (Rome), Dimos Mitsikostas (Athens), Pierluigi Nicotera (Bonn), Giuseppe Pignataro (Naples), Damiana Scuteri (Catanzaro), Cristina Tassorelli (Pavia)

Invited Speakers & Chairs

Lucio Annunziato (Naples), Renato Bernardini (Catania), Fabio Blandini (Pavia), Francesca Bosco (Catanzaro), Annalisa Capuano (Naples), Stefania Ceruti (Milan), Alberto Chiarugi (Florence), Domenico Conforti (Rende, Cosenza), Giangennaro Coppola (Salerno), Giovambattista De Sarro (Catanzaro), Marina De Tommaso (Bari), Monica Di Luca (Milan), Edoardo Ferlazzo (Catanzaro), Pierangelo Geppetti (Florence), Rosario Iannacchero (Catanzaro), Gary Lawrence (Dublin), Antonio Leo (Catanzaro), Livio Luongo (Naples), Rossella E Nappi (Pavia), Francesca Operto (Catanzaro), Angelo Pascarella (Catanzaro), Patrizia Popoli (Rome), Giorgio Racagni (Milan), Simona Sacco (L'Aquila), Paola Sacerdote (Milan), Rita Scarpelli (Catanzaro), Damiana Scuteri (Catanzaro)

MEETING RATIONALE

Migraine is among the most disabling forms of primary headache, endowed with a serious social impact and ranking as one of the top causes of years lived with disability worldwide, particularly in people under fifty. It is characterized by recurrent attacks of moderate to severe throbbing and pulsating pain on one side of the head and untreated attacks last from four to 72 hours. Pain is caused by the activation of nerve fibers within the wall of brain blood vessels traveling inside the meninges. Other common symptoms include increased sensitivity to light, noise, and odors, nausea, vomiting. Clustered populations suffering from the disease leave open the role of endogenous as well as exogenous triggers helping the definition of diverse pathophysiological paradigms for the exercise of research. Indeed, in the past, this clinical field has been characterized by poor knowledge on the pathophysiology of the disease leading to preventive approaches borrowed from drugs originally developed for other therapeutic indications, with consequent limited efficacy and endowed with unacceptable level of side effects causing scarce adherence. At variance with this situation, more than 35 years of pharmacological research effort have established a strong rational basis upon which the actually available disease modifying drugs have been developed. In fact, systematic investigations on calcitonin gene-related peptide (CGRP) have established its fundamental role in the pathophysiology of migraine through nociceptive mechanisms in the trigeminovascular system. The role of CGRP in migraine can be now considered clearly demonstrated also at the level of clinical trials of small-molecule CGRP-receptor antagonists in acute migraine and it is further supported in trials of biotech drugs including onabotulinum toxin A and monoclonal antibodies targeting the CGRP pathway in episodic and chronic migraine. Whilst all this will have a great impact on the frequency and management of acute manifestations as well as the whole history of chronic migraine, new and old questions remain to be answered. In this new scenario, in fact, several pathophysiological as well as therapeutic and regulatory questions remain open. The organizers of this meeting intended to contribute by calling basic and clinical scientists, among the most knowledgeable at the national and international level, as well as national and regional regulators to provide postgraduate students, young researchers and clinicians with their most up to date view on these matters.

SCIENTIFIC PROGRAM

Thursday, September 19th, 2024

15:00 – 15:30 Registration

15:30 – 16:45 Welcome address and meeting rationale

Giacinto Bagetta, University of Calabria (Rende, Cosenza) &
Giovambattista De Sarro, University Magna Graecia (Catanzaro)

Francesco Scarcello, viceRector University of Calabria (Rende, Cosenza)

Maria Luisa Panno, Head of Department of Pharmacy, Health Science
and Nutrition, University of Calabria (Cosenza)

Sebastiano Andò, Emeritus of General Pathology, University of Calabria
(Rende, Cosenza)

Giuseppe Cirino, President of Italian Society of Pharmacology (Naples)

Carmela Matrone, Italian Society of Neuroscience, (Milan)

16.45 – 17:00 Introduction of *Lectio Magistralis* speaker
Damiana Scuteri PhD (University Magna Graecia, Catanzaro)

17:00 – 17:45 *Lectio Magistralis*

Philip R. Holland, Reader of Neuroscience (PI Headache Group,
Kings College, London)

Understanding the Pathophysiology of Migraine to Develop New
Therapies: Bench to Bedside

17.45 – 18:00 Introduction of *Lectio Magistralis* speaker

Damiana Scuteri PhD (University Magna Graecia, Catanzaro)

18:00 – 18:45 *Lectio Magistralis*

Stephen D. Silberstein, Professor of Neurology (Director, Headache Center, Sidney Kimmel Medical College Thomas Jefferson University, Philadelphia, PA USA)

Title: Cannabinoids and migraine

18:45 – 19:00 Welcome cocktail

Friday, September 20th, 2024

Introduction of Keynote speaker
Pierluigi Nicotera (Bonn)

9:00 – 9:30 Keynote speaker
Oliver J Dolly (Dublin)
Neurobiology and therapeutic application of botulinum toxin in migraine

9:30 – 11:00

1st COMMUNICATIONS SESSION: Basic Research in Head Pain

Chairpersons: Monica Di Luca (Milan) & Gary Lawrence (Dublin)

Pierangelo Geppetti (Florence)
Transient receptors in head pain mechanisms

Stefania Ceruti (Milan)
Glia activation in migraine preclinical setting

Carmela Belardo (Naples)
Social isolation and head pain

Luca Gallelli (Catanzaro)

New non-pharmacological perspectives for head pain management

11:00-11.30 Coffee break

Introduction of Keynote speaker
Giuseppe Pignataro (Naples)

11:30 – 12:00 Keynote speaker
Cristina Tassorelli (Pavia)
The changing landscape of migraine treatment: a revolution in 5 years

12:00 – 13:30

2nd COMMUNICATIONS SESSION: Clinical aspects of migraine
Chairpersons: Paola Sacerdote (Milan) & Lucio Annunziato (Naples)

Rossella E Nappi (Pavia)
Linking sex hormones to migraine: theories and practice

Simona Sacco (L'Aquila)
Medication overuse headache (MOH) diagnosis and management

Edoardo Ferlazzo & Angelo Pascarella (Catanzaro)
Migraine and Epilepsy: a diagnostic challenge

Giangennaro Coppola (Salerno) & Francesca Operto (Catanzaro)
Classification of headaches in developmental age: diagnosis and treatment

13:30-15:00 Lunch break and Poster presentation

Introduction of Keynote speaker
Sabatino Maione (Naples)

15:00 – 15:30 Keynote speaker
Dimos Mitsikostas (Athens)
Ditans and 5-HT_{1F} receptor in migraine

15:30 – 16:30

3rd COMMUNICATIONS SESSION: From Bench to Bedside Research in Migraine Therapy

Chairpersons: Giorgio Racagni (Milan) & Annalisa Capuano (Naples)

Alberto Chiarugi (Florence)

Neuropeptide receptors involved and potentially involved in migraine pathogenesis

Marina De Tommaso (Bari)

Exploitation of disease modifying properties of anti-CGRP/R mAbs

Damiana Scuteri (Catanzaro)

Real world evidence in favor of anti-CGRP/R mAbs and beyond

16:30 – 17:00 Coffee break

Introduction of Keynote speaker

Gennarina Arabia (Catanzaro)

17:00 – 17:30 Keynote speaker

Paolo Martelletti (Rome)

Public health issues in current migraine management

17:30-18:00

4th COMMUNICATIONS SESSION: Regulatory Aspects of Migraine therapy

Chairpersons: Giovambattista De Sarro (Catanzaro) & Patrizia Popoli (Rome)

Domenico Conforti (Rende, Cosenza) & Rosario Iannacchero (Catanzaro)

The regional network for head pain management : project Alcmeone AI role in diagnostics and therapy

Rita Scarpelli (Catanzaro)

Regional endorsement of economic burden for novel therapies

Antonio Leo & Francesca Bosco (Catanzaro)

Patterns of active pharmacovigilance of novel therapies

Patrizia Popoli (Rome)

Independent assessment of novel therapies for efficacy and affordability

Poster Communications

List of Contributors

Annagrazia Adornetto (Cosenza)

Umberto Aguglia (Catanzaro)

Diana Amantea (Cosenza)

Salvatore Amoroso (Ancona)

Lucio Annunziato (Naples)

Gennarina Arabia (Catanzaro)

Giacinto Bagetta (Cosenza)

Carmela Belardo (Naples)

Renato Bernardini (Catania)

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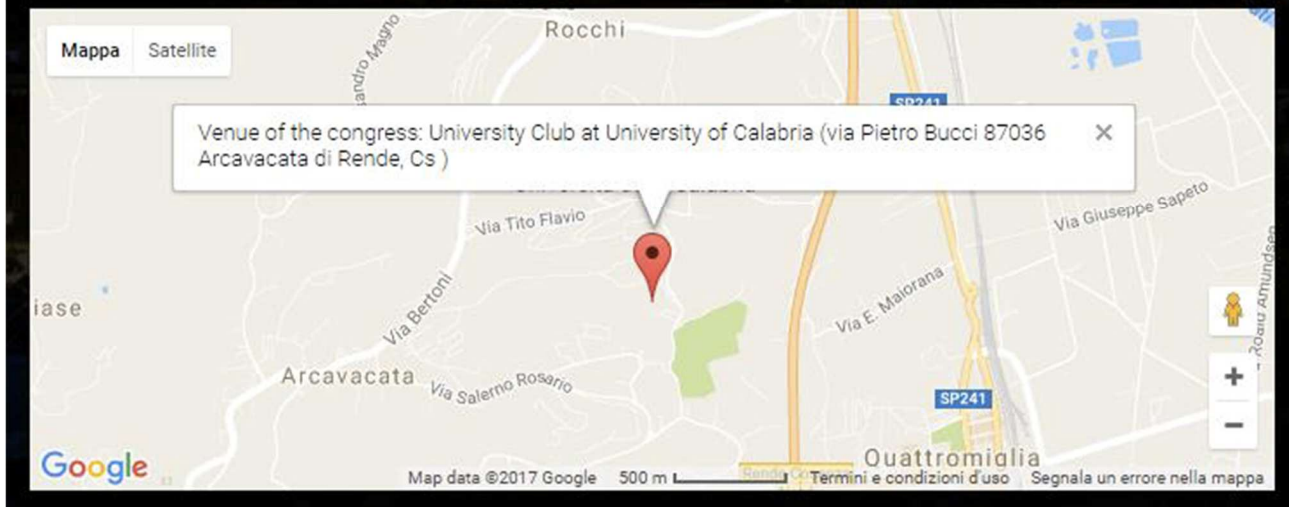
Antonella Scorziello (Naples)

Damiana Scuteri (Catanzaro)

Cristina Tassorelli (Pavia)

Paolo Tonin (Venice)

How to find us:



General Information

Registration fee

A registration fee of 250 € is to be paid beforehand via bank transfer (IBAN: IT35W0200880884000103544669) to: Department of Pharmacy, Health Sciences and Nutrition, University of Calabria, 87036 Rende, Cosenza, Italy (causal: registration fee meeting “Novel Pharmacological Approaches in Migraine Therapy”). The fee will allow to attend the meeting sessions. To limit the environmental impact of the meeting, the program will be available online by means of a QR code to be used with the smartphone.

Meeting content and format

The meeting is organized in basic, translational, clinical and regulatory sessions on head pain. Each session is preceded by a keynote speech of 30 minutes duration including discussion. The sessions include oral presentations of 20 minutes duration including discussion.

The poster session will be Thursday 20th September. Posters will be discussed at lunch break, but they will be on display for all the duration of the meeting.

Accommodation

Accommodation for participants will be at an agreed discount rate at four stars Hotels in Rende (Cosenza). Transportation to/from the University will be available free of charge for registered participants from the Hotels.

For further information, please, address the correspondence to the executive secretariat.

Language

The language of the meeting will be English, no translation will be available.

Social Program

Thursday, September 19th, 2024 the welcome dinner will be served at 20.30 at the Fellini Restaurant followed by Ethnic music and dance concert directed by M^o Checco Pallone

Friday, September 20th, 2024 the farewell dinner will be served at Villa Rendano (Cosenza) at 20.30 followed by Jazz music concert directed by M^o Giuseppe Cosentino

Executive Secretariat: Dott. Giuseppe Oliva

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Sponsors (to be confirmed)

Italian Society of Pharmacology (SIF)

Italian Society of Neuroscience (SINS)

University of Calabria, Rende (Cosenza)

Department of Pharmacy & SSN, University of Calabria, Rende (Cosenza)

Pharmacists Association of Cosenza Province

Private Pharmacy Association, Federfarma, Cosenza

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