



UNIVERSITÀ
DEGLI STUDI
DI PALERMO



SAPIENZA
UNIVERSITÀ DI ROMA



Palermo

Mattarella Hall, Royal Palace

2019 27th – 28th September

FOCUSED ULTRASOUND IN NEUROSCIENCES: ITALIAN WORKSHOP

State of the field,
review of personal experience and
a look at future perspectives



Chair | C. Gagliardo, A. Napoli

Co-Chairs | M. Marrale, R. Maugeri, T. V. Bartolotta

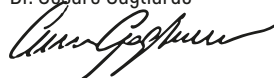
Honorary Presidents | M. Midiri, C. Catalano

PRELIMINARY PROGRAMME

FOCUSED ULTRASOUND IN NEUROSCIENCES: ITALIAN WORKSHOP

The organization of this workshop stems from the desire of sharing the experiences gained by all the Italian sites performing transcranial Magnetic Resonance-guided Focused Ultrasound (tcMRgFUS) treatments of functional neurological disorders. Since the first treated patient in Palermo (January 27th, 2015) using the world-first tcMRgFUS system ever integrated with a 1.5T MRI scanner, in the last two years the number of Italian installations has increased fivefold with four more treating sites: L'Aquila, Messina, Milano and Verona. Together with sessions dedicated to sharing the experiences gained in each treating site, there will be lectures about physical principles, the state of the field and future perspectives of this promising emerging technology that fully respond to patients' requests for less invasiveness, greater safety without compromises in terms of clinical efficacy for an increasingly tailored medicine. As a further added value, international experts of renowned fame in the field of Focused Ultrasound will share their vision and experience. The enormous advancements in this field require a constant update not only of the directly involved professional figures but also of the whole Italian scientific community. This workshop comes at a time of crucial importance for the spread of this new technology.

Dr. Cesare Gagliardo



- 2.15 p.m. Participants registration
2.30 p.m. Welcome Coffee
3.00 p.m. Greetings from organizing committee, chairmen and local authorities
M. Midiri, R. Lagalla, S. Lo Bue, C. Picco

27TH SEPTEMBER

SESSION I

MR-GUIDED FOCUSED ULTRASOUND SURGERY: PRINCIPLES AND STATE OF THE FIELD

Chairmen: C. Catalano, G. D. Iacopino, C. Masciocchi, M. Midiri

- 3.30 p.m. HI-FU and MR thermometry: physical principles
M. Marrale
- 4.00 p.m. MRgFUS: body applications
C. Catalano
- 4.30 p.m. Essential Tremor: from diagnosis to therapy
M. D'Amelio
- 5.00 p.m. Trans-cranial MRgFUS
C. Gagliardo
- 5.30 p.m. Emerging trends in focused ultrasound: role of MR and US contrast medium
R. Cannella
- 6.00 p.m. Sonodynamic Therapy: concept, mechanism and application to brain cancer
F. Prada
- 6.30 p.m. Focused ultrasound in neurosciences
S. Le Blang

28TH SEPTEMBER

SESSION II

TRANS-CRANIAL MRGFUS: REVIEW OF PERSONAL EXPERIENCE

Chairmen: E. Ciceri, F. Di Meco, S. Marino, R. Maugeri, A. Napoli

- 8.30 a.m. Messina (1.5T)
C. Anfuso, R. Morabito
- 9.00 a.m. Milano (1.5T)
M.G. Bruzzone, L. Romito
- 9.30 a.m. Verona (3T)
G. Ricciardi, S. Tamburin
- 10.00 a.m. L'Aquila (3T)
F. Bruno
- 10.30 a.m. Palermo (1.5T)
C. Gagliardo
- 11.00 a.m. Beyond the Thalamus: Unilateral MR guided focused ultrasound for the treatment of essential tremor targeting the ventral intermedius nucleus and the zone incerta
W. Gedroyc
- 11.30 a.m. CME (ECM) Test
- 12.00 p.m. Course closing and remarks

FOCUSED ULTRASOUND IN NEUROSCIENCES: ITALIAN WORKSHOP

Carmelo Anfuso

IRCCS Centro Neurolesi Bonino Pulejo – Messina

Federico Bruno

Ospedale regionale San Salvatore – L'Aquila

Maria Grazie Bruzzone

IRCCS Istituto Neurologico Carlo Besta – Milano

Roberto Cannella

Università di Palermo

Carlo Catalano

Sapienza Università di Roma

Elisa Ciceri

Azienda Ospedaliera Universitaria Integrata – Verona

Marco D'Amelio

Università di Palermo

Francesco Di Meco

IRCCS Istituto Neurologico Carlo Besta – Milano

Cesare Gagliardo

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Wladyslaw Gedroyc

Imperial College Healthcare NHS Trust – London (UK)

Gerardo Domenico Iacopino

Università di Palermo

Suzanne Le Blang

Focused Ultrasound Foundation – Charlottesville, VA (USA)

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Maurizio Marrale

Università di Palermo

Carlo Masciocchi

Università de L'Aquila

Rosario Maugeri

Azienda Ospedaliera Universitaria Policlinico Giaccone – Palermo

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Università di Palermo

Rosa Morabito

IRCCS Centro Neurolesi Bonino Pulejo – Messina

Alessandro Napoli

Sapienza Università di Roma

Francesco Prada

Focused Ultrasound Foundation – Charlottesville, VA (USA)

Giuseppe Ricciardi

Azienda Ospedaliera Universitaria Integrata – Verona

Luigi Romito

IRCCS Istituto Neurologico Carlo Besta – Milano

Stefano Tamburin

Azienda Ospedaliera Universitaria Integrata – Verona

FACULTY

CONGRESS VENUE

Palermo

Mattarella Hall, Royal Palace

REGISTRATION

The registration is free and mandatory on

www.bibagroup.it

Includes:

- | Admission to scientific sessions
- | CME credits
- | Welcome Coffee
- | Certificate of attendance

CME CREDITS AGENZIA NAZIONALE PER I SERVIZI SANITARI REGIONALI

The Event ID **270698**, eligible for **7 CME CREDITS** is accredited for the following categories:

| Physicians

Neuroradiology, Radiology, Neurosurgery, Neurology, Neurophysiology, Psychiatry, Anaesthesiologists.

| Other Healthcare Professions

Health Physicist
Radiologic Technologist
Nurse

SYSTEM AREA

Educational objective:

Technological innovation and medical advancements in the field of focused ultrasound in neurosciences.

The CME Credits assigned to this congress will be earned after the successful completion of the online CME test, available on the provider's website from **29th September to 1st October**.

INFORMATION

PATRONAGE



Assemblea Regionale Siciliana



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SAPIENZA
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Ordine dei Medici Chirurghi e degli Odontoiatri
della Provincia di Palermo



Associazione Italiana di Fisica Medica



Dipartimento di Biomedicina, Neuroscienze e Diagnostica avanzata (Bi.N.D.)
Department of Biomedicine, Neuroscience and Advanced Diagnostics

PROVIDER AND ORGANIZING SECRETARIAT



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