



Mission Brain International Education Event on Transcranial Magnetic Stimulation (TMS):

Proposed by:

- Mission Brain Sapienza Chapter

In Collaboration with:

- Mission Brain Cambridge Chapter

Institutions:

- Sapienza University of Rome
- University of Cambridge

Location and Date:

- **Venue:** Policlinico Umberto 1- Aula Paride Stefanini
- **Format:** Hybrid (in-person + online)
- **Proposed Date:** April 15th 16.30-18.30 CET
- **Target Duration:** Half-day conference (2 hours)

Scientific Rationale

Transcranial magnetic stimulation (TMS), is increasingly central to modern neuroscience and clinical practice:

- investigate causal brain–behaviour relationships,
- map functional brain networks,
- guide neurosurgical planning, and
- develop therapeutic interventions in neurology and psychiatry.

This event aims to invite **international experts in TMS** to provide medical students and trainees with a **coherent, clinically grounded overview** of TMS from mechanisms to applications, organized in the form of TED talks.

Target Audience

- **Primary:** 5th and 6th-year medical students from Sapienza University of Rome.
- **Secondary:** International students, medical trainees, and lower-year Sapienza students (via online access).
- **Extended:** Faculty members, researchers, and clinicians with an interest in neurology and neurosurgery.

Proposed Invited Speakers (Expert Recommendations)

1. Dr. Antonio Suppa

Affiliation: Neurology & Clinical Neurophysiology (Italy)

Expertise:

- TMS and cortical excitability
- Movement disorders
- Motor system plasticity

Public Profile: University and PubMed-indexed publications

- Email: antonio.suppa@uniroma1.it.
- STATUS: CONFIRMED

2. Dr. Giovanni Raffa

Affiliation: University of Messina

Expertise:

- Navigated TMS (nTMS)
- Neurosurgical applications of CMS
- “Image-guided surgery of brain lesions in eloquent areas based on preoperative nTMS functional mapping”

Public Profile: University of Messina Webpage

- Email: giovanni.raffa@unime.it.
- STATUS: CONFIRMED

3. Dr. Valerie Voon

Affiliation: University of Cambridge

Expertise:

- Use of TMS in mood disorders, treatment-resistant depression
- Translational psychiatry
- Email:
- STATUS: PENDING

Additional List of Potential Experts:

1. Dr. Muzaffer Kaser

Affiliation: University of Cambridge

Expertise:

- Clinical Psychiatric Neuromodulation
- Targeting "Cognitive Scars" in Mood Disorders

- “Precision Psychiatry: Using fMRI and inflammatory biomarkers to predict and personalize TMS treatment outcomes”
- **Role:** Consultant Psychiatrist (CPFT) and Affiliated Assistant Professor, Department of Psychiatry.
- **Email:** mk708@cam.ac.uk
- **Alternative (College):** mk708@emma.cam.ac.uk
- **University Profile:** psychiatry.cam.ac.uk/staff/dr-muzaffer-kaser

2. Dr. Camilla Nord

Affiliation: University of Cambridge: Professor of Cognitive Neuroscience & Director of the Mental Health Neuroscience Lab.

Expertise:

- Using **paired associative stimulation (TMS)** to investigate the neural mechanisms of mood and cognitive control,

Email: camilla.nord@mrc-cbu.cam.ac.uk

Lab Website: nordlab.co.uk

Proposed Scientific Program

Opening Session

- Opening remarks: Mission Brain introduction by Asha
- Event introduction: Giovanni and Oyku
- Talks (20 minute talks, 10 minute Q&As)

Session I – Foundations of Clinical Magnetic Stimulation and its use in Neurology

- TMS in clinical neurophysiology and movement disorders – **Dr. Antonio Suppa**

Session II – CMS in Neurosurgery

From mapping to intervention

- Navigated TMS for pre-surgical planning – **Dr. Giovanni Raffa**

Session III – CMS in Psychiatry

Precision stimulation and disease models

(Structured student Q&A Moderated by Mission Brain representatives *at the end of each talk*)

Closing Session

- Closing remarks by Giovanni and Oyku

Conference Format and Logistics

- Hybrid delivery (in-person + live online)
- Live moderation for all sessions
- Centralized audiovisual support
- Optional recording for educational use (subject to speaker consent)

Committees and Roles

A. Organizing Committee

Composed of Mission:Brain Sapienza core members; responsible for planning, scheduling, and execution.

B. Scientific Committee

Composed of participating professors and doctors from Sapienza and Cambridge; responsible for approving topics and scientific content.

C. Sub-Teams

Specific roles to be assigned.

Sub-Team	Responsibilities
Logistics	Venue booking, room setup, attendance registration
Media & Design	Graphic materials, photography, promotional content, social media
Moderation & Communication	Contacting speakers, preparing introductions, moderating sessions
Welcoming	Hosting and accompanying invited professors and
Technical Support	Audio-visual setup, hybrid streaming, and IT

CFU Accreditation

The event will be proposed for **CFU accreditation** through Sapienza's Faculty of Medicine, recognizing participation in scientific and educational events.

Certificates will be issued to all attendees (both in-person and online).

Expected Outcomes

- High-level educational exposure for medical students
- Strengthening of international academic collaborations
- Increased visibility of Sapienza as a hub for neuroscience exchange
- Foundation for future joint seminars or research initiatives

Contact and Next Steps

Primary Contact:

Mission: Brain Sapienza Chapter

Proposed Timeline:

- November–December 2025 → Proposal submission to Sapienza
- January–February 2026 → Confirmation of speakers and format
 - 1st week of February finalize event format, send preliminary emails
 - 2nd week of February meeting with Cambridge chapter
 - 3rd week of February: follow up emails and finalize the proposed dates, room booking communications
- March 2026 → Cambridge guest confirmation, joint promotion, registration, technical setup
- April 2026 → Conference

Appendix (To Be Added/Refined by Organizing Committee)

- Draft poster and promotional materials
- Find email draft below

Conclusion

This conference represents a unique opportunity to unite **European centers of excellence** in neuroscience and clinical medicine, providing a rigorous yet accessible introduction to Clinical Magnetic Stimulation for the next generation of physicians and researchers.