

**Granted Participant:** Sally Shaaban, Lecturer of Neurology, Mansoura University, Egypt

**Duration:** 18 December 2024 – 16 March 2025 .

## Introduction

I had the privilege of undertaking a three-month ILAE granted training visit to the National Center of Neurology and Psychiatry (NCNP) in Tokyo, Japan. During my training visit, I had the unique opportunity to learn from experts at the forefront of SEEG applications and advanced diagnostic technique used to precisely localize the epileptogenic zone in patients with drug resistant epilepsy.

## Training Activities and Experiences

### 1. Presurgical Planning, SEEG and Epilepsy Surgery :

NCNP is at the forefront of utilizing SEEG for the surgical management of drug-resistant epilepsy. Under the guidance of my mentor, I gained hands-on experience in analyzing SEEG recordings and interpreting data to define the seizure onset zone and epileptogenic area. In addition, I observed and contributed to multidisciplinary team discussions involving neurologists, neurosurgeons, and radiologists, gaining insights into the collaborative approach to optimize surgical outcomes.

### 2. Weekly EEG Discussions and Case Meetings :

- I attended weekly EEG discussion meetings, where complex cases were reviewed, and EEG findings were correlated with clinical presentations. I also participated in surgical candidate epilepsy case discussions, which provided a deeper understanding of the decision-making processes for epilepsy surgery.



3. Research Project: Seizure Induction Tests and EEG Parameters

- Under the guidance of my supervisor "Prof. Iwasaki", I had access to patients who underwent SEEG recordings.

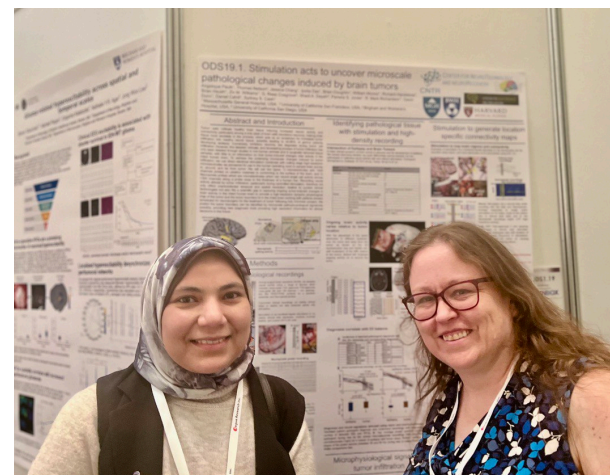
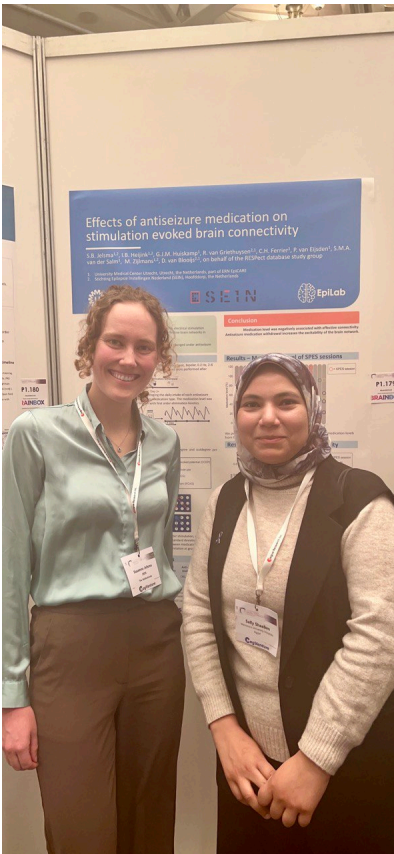
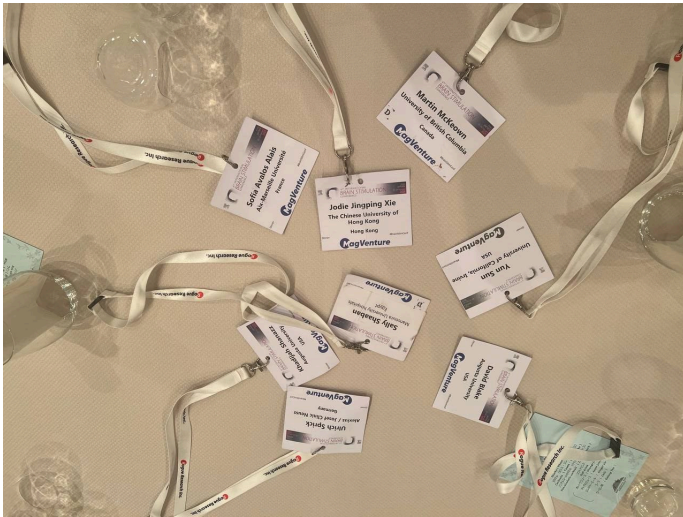
I analyzed SEEG data to study seizure induction tests and their role in defining the seizure onset zone and epileptogenic area. This research experience enhanced my understanding of advanced EEG parameters and their application in epilepsy surgery planning.



4. International Brain Stimulation Conference

- During my visit, I attended the International Brain Stimulation Conference in Kobe, Japan (23-26 Feb., 2025) where I learned about the latest advancements in neuromodulation techniques, including vagal nerve stimulation, transcranial magnetic stimulation (TMS) and deep brain stimulation (DBS).

- This conference provided valuable networking opportunities and insights into the future of brain stimulation therapies.



5. Engagement, International Collaboration, and Friendships:

- Beyond the clinical and research activities, my visit was marked by meaningful engagement with colleagues from diverse cultural and professional backgrounds.
- I had the opportunity to collaborate with international researchers and clinicians, fostering a spirit of global cooperation and knowledge exchange.
- The friendships I developed during my time at NCNP have created a lasting network of professional and personal connections, enriching my experience and broadening my perspective.



## Key Learnings and Outcomes

- **Clinical Skills:** I gained advanced skills in interpreting EEG and SEEG data and contributing to presurgical planning for epilepsy patients.
- **Research Skills:** I developed expertise in analyzing SEEG recordings and understanding the role of seizure induction tests in epilepsy surgery.
- **Collaboration:** Working with a multidisciplinary team at NCNP enhanced my ability to collaborate effectively in a clinical and research setting.
- **Knowledge Expansion:** Attending the International Brain Stimulation Conference broadened my understanding of neuromodulation and its applications in epilepsy.
- **Global Perspective:** The international collaboration and friendships I developed during my visit have enriched my professional and personal growth.

## Acknowledgment

I would like to express my sincere gratitude to [the International League Against Epilepsy \(ILAE\)](#) for granting me this training opportunity. I am also deeply thankful to my supervisor, [Prof. Masaki Iwasaki](#), the Director of Neurosurgery department and Epilepsy monitoring unit, and his team at NCNP for their guidance and support. Special thanks to my colleagues and friends at NCNP for making my stay both professionally rewarding and personally memorable.



Mar 16, 2025

### Research Certificate

This is to verify that Dr. Sally Mohamed Shaaban Elsheshtawy Elhassanin (born on July 28, 1990) has finished the following research as a visiting fellow at the National Center of Neurology and Psychiatry in Tokyo. She attended epilepsy-EEG conferences and had training for stereo-EEG reviewing and interpretation.

**Research project:** Seizure induction tests and EEG parameters in defining the seizure onset zone and the epileptogenic area

**Period:** December 18, 2024 to March 16, 2025

Masaki Iwasaki, M.D., Ph.D.  
 Director, Department of Neurosurgery  
 National Center Hospital,  
 National Center of Neurology and Psychiatry



## Certificate of Attendance

This certificate is proudly awarded to

*Sally Shaaban*

For attending the 6th International Brain Stimulation Conference

Carly Mole

on behalf of Elsevier

