



Third International Workshop on High Frequency Oscillations in Epilepsy

May 23-25, 2024 • NYU Langone Health, New York

Organizing Committee

- **Birgit Frauscher, MD, PhD**
Duke University
- **Jean Gotman, PhD**
Montreal Neurological Institute
- **Julia Jacobs, MD**
University of Calgary
- **Philippe Kahane, MD, PhD**
Grenoble-Alpes University and Hospital
- **Christos Lisgaras, PhD**
NYU Langone Health and Nathan Kline Institute
- **Richard Staba, PhD**
UCLA
- **Maeike Zijlmans, MD, PhD**
University Medical Center Utrecht and SEIN

Sponsors

- NYU Langone's Comprehensive Epilepsy Center
- FACES (Finding a Cure for Epilepsy and Seizures)

Registration and Program

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CME ACCREDITATION STATEMENT

The NYU Grossman School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The NYU Grossman School of Medicine designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Abstract submission will open soon

Agenda

THURSDAY, MAY 23

12:00pm **Registration and Lunch**

1:00 **HFOs in epilepsy: where are we now?**
Jean Gotman, PhD

2:00 **Teaching and hands-on workshop**
(parallel sessions)
• **How to record an HFO**
Nicolás von Ellenrieder, PhD
• **How to detect HFOs**
Beth Lopour, PhD
• **HFO detection in rodents/basic science**
Lin Li, PhD
• **Practical session on HFO detection 1.5hr**

5:00 **Refreshments**

5:30 **Keynote Lecture**
Gyuri Buzsaki, MD, PhD

7:30pm **Dinner**

FRIDAY, MAY 24

9:00am **Physiological vs Pathological HFOs**
One platform talk by trainee (from abstracts).
• **Mechanisms of physiological HFOs**
Anli Liu, MD
• **Mechanisms of pathological HFOs**
Premysl Jiruska, MD, PhD
• **Interplay between physiological and pathological HFOs**
Josef Parvizi, MD, PhD

10:30 **Coffee break**

11:00 **HFOs in Time**
One platform talk by trainee (from abstracts).
• **HFO variability over long recording periods**
William Stacey, MD, PhD
• **HFOs across behavioral states**
Birgit Frauscher, MD, PhD
• **HFOs and response to medication and anesthetic agents**
Eishi Asano, MD, PhD

12:30pm **Lunch Break**

1:30 **HFOs in Space**
One platform talk by trainee (from abstracts).
• **HFOs local or network (experimental)**
Lin Li, PhD
• **HFO local or network (clinical)**
Eleonora Tamlia, PhD
• **Microarrays to record HFOs**
Jonathan Viventi, PhD

3:00 **Poster session and refreshments**

4:00 **HFOs vs. or combined with other biomarkers**
One talk by trainee and 1 patient perspective.

- **HFOs vs. Interictal spikes**
Jan Schönberger, MD
- **HFOs vs. Seizures**
Shennan Weiss, MD, PhD
- **HFOs vs. Gamma oscillations**
John Thomas, PhD
- **HFOs vs. veryHFOs**
Naotaka Usui, MD, PhD

6:00pm **Social activity and Networking**

SATURDAY, MAY 25

9:00am **New ways to analyze HFOs**
One platform talk by trainee (from abstracts).
• **Deep learning to detect IEDs and HFOs**
Mark Kramer, PhD
• **Deep learning classification algorithms**
Hiroki Narai, MD, PhD
• **Using stimulation to evoke HFOs**
Rina Zelmann, PhD
• **Advanced signal analyses for HFOs**
Maeike Zijlmans, MD, PhD

11:00 **Coffee break**

11:30 **Scalp vs. Intracranial HFOs**
One talk by trainee (from abstracts) and 1 patient perspective.
• **Extracting HFOs using non-invasive methods**
Nicole van Klink, PhD
• **Are the microelectrode HFOs, the macroelectrode HFOs and the scalp HFOs the same beast?**
TBD
• **Intraoperative HFOs**
Johannes Sarnthein, MD, PhD

1:00 **Lunch Break**

2:00 **HFOs in epileptogenesis and ictogenesis**
One platform talk by trainee (from abstracts).
• **HFOs to predict epileptogenesis and epilepsy development**
Rick Staba, PhD
• **TBD**
Liset Menendez de la Prida, PhD
• **Scalp HFOs and epileptogenesis**
Julia Jacobs, MD

3:30 **Poster session and refreshments**

4:30 **HFOs trials**
One platform talk by trainee (from abstracts).
• **HFOs as a therapeutic target (preclinical data)**
Christos Lisgaras, PhD
• **HFO trials**
Maryse van 't Klooster, PhD
• **What type of evidence do we need?**
Daniel Friedman, MD

6:00pm **Concluding discussion and future directions**
Jean Gotman, PhD and Maeike Zijlmans, MD, PhD