

# 5th International Training Course on Neuroimaging of Epilepsy

**APRIL 26-28, 2022**

*Endorsed by the ILAE as one of the activities for the competency-based curriculum  
Category: Level 2*

## PROGRAM

### DAY 1 – TUESDAY, APRIL 26

08:00 – 08:30 | Welcome (**A. & N. Bernasconi**)

#### **VISUAL DIAGNOSTICS USING STRUCTURAL MRI**

##### **Meet the expert**

08:30 – 09:30 | **Q&A on pre-recorded lectures to be viewed prior to the course**

- 1) *Principles of MRI and novel quantitative contrasts* (**D. Rudko**)
- 2) *MRI protocol and visual evaluation* (**A. Bernasconi**)
- 3) *Optimizing visual diagnostics* (**F. Cendes**)

09:30 – 10:00 | Break

##### **Teaching session**

10:00 – 11:30 | Case review – Visual diagnosis (Group 1: **NB**; Group 2: **AB**)  
11:30 – 12:00 | Break  
12:00 – 13:30 | Case review – Visual diagnosis (Group 1: **NB**; Group 2: **AB**)  
13:30 – 14:00 | Break  
14:00 – 15:00 | Meet & Greet - Attendees and Faculty

### DAY 2 – WEDNESDAY, APRIL 27

08:15 – 08:30 | Introduction (**A. & N. Bernasconi**)

#### **COMPUTER-AIDED DIAGNOSTICS USING STRUCTURAL MRI**

##### **Meet the expert**

08:30 – 09:30 | **Q&A on pre-recorded lectures to be viewed prior to the course**

- 1) *Basic principles of image processing* (**L. Collins**)
- 2) *Image analysis - Temporal lobe epilepsy* (**N. Bernasconi**)
- 3) *Image analysis - Neocortical epilepsy* (**A. Bernasconi**)

09:30 – 10:00 | Break

##### **Teaching session**

10:00 – 12:00 | Case review – Computer-aided diagnosis (Group 1: **NB**; Group 2: **AB**)  
12:00 – 12:30 | Break  
12:30 – 14:00 | Case review – Computer-aided diagnosis (Group 1: **NB**; Group 2: **AB**)  
14:00 – 14:15 | Conclusion of the day (**N. & A. Bernasconi**)

## DAY 3 – THURSDAY, APRIL 28

08:15 – 08:30 | Introduction (**A. & N. Bernasconi**)

### **FUNCTIONAL MRI AND CONNECTIVITY, MULTIMODAL MRI**

#### **Meet the expert**

08:30 – 10:00 | Q&A on pre-recorded lectures to be viewed prior to the course

- 1) *Task-based fMRI – Principles and applications* (**N. Voets**)
- 2) *Diffusion MRI – Principles and applications* (**L. Concha**)
- 3) *Epilepsy connectomics – Principles and applications* (**B. Bernhardt**)
- 4) *Epilepsy connectomics – The nitty-gritties* (**B. Bernhardt**)

10:00 – 10:30 | Break

#### **Teaching Session**

10:30 – 12:00 | Computer-aided diagnosis – case review (**N. & A. Bernasconi**)

12:00 – 12:30 | Course wrap-up - Feedback