

18th San Servolo Advanced Epilepsy Course

Bridging Basic with Clinical Epileptology (7)

Accelerating translation in epilepsy research

July 18– 29, 2022

San Servolo (Venice) Italy



Course Directors: Aristeia Galanopoulou (US) and Michele Simonato (I)



The main objective of the 7th edition of the Advanced Epilepsy Course *Bridging Basic with Clinical Epileptology* is to train attendees to improve the critical competence necessary to design an effective research project/activity in the field of epilepsy. The Course is addressed to neuroscientists, neurologists and other professionals with a documented background in epilepsy research. Lectures on general and specific topics will be interspersed with interactive seminars, workshops, and breakout sessions where small groups of attendees and faculty will be involved in tutorials. The main focus of the Course is the preparation of a project on a subject defined and assigned by the Course Directors. Groups of 6-8 students are formed at the beginning of the Course; each group will develop a research project under the supervision of two tutors. The progress of the project will be evaluated daily during group discussions with tutors. Each research project will be collectively discussed and evaluated during the last day of the Course.

Faculty – tutors

1. Giuliano Avanzini I
2. Christophe Bernard F
3. Edward Bertram US
4. Marco de Curtis I
5. Jerome Jr Engel US
6. Aristeia Galanopoulou US
7. Vadym Gnatkovsky I

8. Premek Jiruska CR
9. Andrey Marazati US
10. Solomon Nico Moshé US
11. Jeffrey Noebels US
12. Terence O'Brien AU
13. Michele Simonato I
14. Eugen Trinka AT
15. Matthew Walker UK

Faculty – lecturers

1. Helen Cross UK
2. Rita Garbelli I
3. Fabio Doniselli I
4. Liisi Laaniste UK
5. Nicola Marchi F
6. Asla Pitkanen FIN
7. Heidrun Potschka D

8. Rod Scott US/UK
9. IBE representative
10. Laura Tassi I
11. Annamaria Vezzani I

The Course is supported by **Venice International University**, by the **Neurobiology Commission**, the **Asia-Oceania Commission** and the **Africa Commission** of the **International League Against Epilepsy (ILAE)**, the **American Epilepsy Society (AES)**, the **Lega Italiana Contro l'Epilessia (LICE)**, by **Citizens United for Research in Epilepsy (CURE)**, by the **Fondazione IRCCS Istituto Neurologico Carlo Besta**, and by unrestricted grants by. The Course is endorsed by the European Reference Network **EpiCARE** for Rare and Complex Epilepsies.

Course Program

July 18, 2021		
6.30 pm	<i>registration</i>	
7.30 pm	<i>welcome buffet dinner</i>	
Day 1– July 19 –		
8.30 -8.40 am	Welcome of ISNV President and Introduction to the Course	F. Paladin,G. Avanzini,M. deCurtis
8.40-9.20 am	Epilepsy and seizure classifications	Nico Moshé
9.20-10.00 am	Generalized epilepsies and seizures	Giuliano Avanzini
10.00-10.40 am	Focal epilepsies and seizures	Pete Engel
10.40-11.00 am	coffee break	
11.00-11.40 am	Early life epilepsies and seizures	Helen Cross
11.40-12.20 am	What do models model?	Ed Bertram
12.20am-1.00 pm	Gender and age issues in epilepsy	Nico Moshé
1.15-2.30 pm	lunch	
2.30-3.10 pm	Ictogenesis	Marco de Curtis
3.10-3.50 pm	Neurons in epilepsy	Premysl Jiruska
3.50-4.30 pm	Local circuits and neurons in epilepsy	Christophe Bernard
4.30 -5.10 pm	Genes in epilepsy	Jeff Noebels
5.30	<i>Group announcement and first meeting</i>	
6.30 -7.00 am	While in Venice: dos and don'ts	Valentina Guarino
Day 2– July 20 –		
8.30 -9.10 am	Epileptogenesis	Asla Pitkänen
9.10-9.50 am	Status epilepticus	Eugen Trinka
9.50-10.30 am	Glia, BBB and inflammation	Annamaria Vezzani
10.30-11.00 am	coffee break	
11.00-11.40 am	Blood-brain barrier and epileptogenesis	Nicola Marchi
11.40am-12.20	System biology in epilepsy	Liisi Laaniste
12.20am-1.10 pm	Imaging seizure activity	Premysl Jiruska
1.00-2.30 pm	lunch	
2.30-4.30 pm	<i>Practical session: Neurophysiology</i>	Vadym Gnatkovsky
4.30-5.30 pm	Neurophysiological monitoring in epilepsies (incl stereo-EEG)	Laura Tassi
Day 3– July 21 -		
8.30 -9.10 am	Neurophysiological monitoring in pediatric epilepsies	Nico Moshe
9.10-9.50 am	Neuropathology of the epilepsies	Rita Garbelli
9.50-10.30	Structural and functional neuroimaging in epilepsies	Fabio Doniselli
10.30-11.00 am	coffee break	
11.00-11.40 am	Clinical pharmacology for epilepsies	Terence O'Brien
11.40-12.20 am	Special treatment options (eg. immune, diets, etc.)	Helen Cross
12.20am-1.00 pm	Drug resistant epilepsy	Heidrun Potschka
1.00-2.30 pm	lunch	
2.30-3.10 pm	Epilepsy surgery: indications and protocols	Laura Tassi
3.10-3.50 pm	Neuromodulation / emerging therapies	Matthew Walker
4.00-6.00 pm	<i>Practical session: discussion of cases/issues proposed by the students</i>	

Day 4– July 22 –		
8.30 -9.10 am	The need of biomarkers	Michele Simonato
9.10-9.50 am	Circulating and imaging biomarkers	Asla Pitkanen
9.50-10.30	Neurophysiology biomarkers	Pete Engel
10.30-11.00 am	coffee break	
11.00-11.40 am	Epilepsy as a complex disease	Rod Scott
	Networks and systems in epilepsy	Giuliano Avanzini
11.40-12.20 am	The virtual brain	Christophe Bernard
1.00-2.30 pm	lunch	
2.30-4.30 pm	Group meetings	
6.00-6.30 pm	Remembering Metella Paterlini	
6.30 pm	Piano concert	
Day 5– July 23 – STUDY DESIGN and FUNDING/CAREER OPPORTUNITIES		
8.30 -9.10 am	Preclinical therapy screening: gaps, initiatives, new directions	Aristea Galanopoulou
9.10-9.50 am	Multicenter preclinical studies	Terry O'Brien
9.50-10.30	Epilepsy-related comorbidities - neurobiology, networks and translation (including CDEs)	Andrey Mazarati
10.30-11.00 am	coffee break	
11.00-11.40 am	Is this a seizure?	Aristea Galanopoulou
11.40-12.30 am	How to write a grant	C. Bernard and H. Cross
12.30 am -2.00 pm	lunch	
2.00-4.30 pm	Practical session: Neuroanatomy	Rita Garbelli
5.20 pm	PANEL SESSION: grant opportunities presentations with Q&A	C. Bernard and M.Walker
Day 6– July 24		
9.00 -09.45 am	PANEL : Charities & the role of people living with epilepsy	IBE representative and others
09.45-10.30 am	Systematic reviews and MA	Michele Simonato
	Practical session: Camarades: Systematic reviews and MA	Michele Simonato
10.30-11.00 am	coffee break	
Evening aperitivo	Career development and leadership training	P. Jiruska, H. Cross, E. Bertram
Day 7-10 - July 25-28		
all day	Group work	
Day 11 – July 29		
8.30-12.30 am	Working group presentations: - 45 minutes per group	all tutors
2.00 pm	Metella Prize winner and end of the Course	

