



# Trends and challenges in epilepsy research

**Summer School**  
- Final Programme -

Costa da Caparica, Portugal

27<sup>th</sup> Sep - 1<sup>st</sup> Oct, 2021



*“from genes, synapses and circuits  
to pave the way for novel drugs and strategies”*

## REGISTRATION FOR ONLINE SCIENTIFIC TALKS:

<https://forms.gle/bWxTV6rzg5QoCsmi6>

*(registration deadline 17<sup>th</sup> of September, 2021)*

## FINAL PROGRAMME:

*\*Programme schedule in Portuguese Time zone (Western Europe Time Zone)*

### DAY 1 – MONDAY, 27<sup>TH</sup> OF SEPTEMBER 2021

8:30 – 09:30	Registration and COVID-19 Testing ( <i>Instituto de Medicina Molecular</i> )
12:00	Bus leaving to Costa da Caparica ( <i>from Instituto de Medicina Molecular</i> )
12:30	Arrival at Tryp Lisboa Caparica Mar Hotel
13:00 – 14:00	Lunch
14:00 – 14:15	<b>Welcome Session</b>
14:15 – 16:15	<b>Session 1: Epilepsy or Epilepsies?</b>  <i>“A clinical perspective”</i> <b>Carla Bentes</b> (Hospital of Santa Maria, Lisbon, Portugal)  <i>“Animal models of Epilepsy”</i> <b>Sara Xpelli</b> (Instituto de Medicina Molecular, Lisbon, Portugal)
16:15 – 16:30	Coffee Break
16:30 – 17:30	Summer School Projects: Objectives and planning
17:30 – 19:30	<i>“Break the ice”</i> activity



**DAY 2 – TUESDAY, 28<sup>TH</sup> OF SEPTEMBER 2021**

<b>9:00 – 10:15</b>	<p><b>Session 2: Therapeutic strategies in Epilepsies:</b></p> <p style="text-align: center;"><i>Available drugs and their limitations</i></p> <p style="text-align: center;"><b>Nuno Canas</b> (Hospital Beatriz Ângelo, Portugal)</p>
<b>10:15 – 10:30</b>	Coffee Break
<b>10:30 – 11:00</b>	Poster Session ( <i>odd numbers presenting</i> )
<b>11:00 – 15:15</b>	<p>Work on Summer School projects + Lunch*</p> <p>*Lunch available between 13:00 and 14:00</p>
<b>15:15 – 16:45</b>	<p><b>Session 3: Moving forward in Epilepsy Research and therapy</b></p> <p style="text-align: center;"><i>“Mechanisms of focal seizure generation and propagation”</i></p> <p style="text-align: center;"><b>Gabriele Losi (via zoom)</b> (Istituto di Neuroscienze , Padua, Italy)</p> <p style="text-align: center;"><i>“Understanding the astrocytic role in absence seizures and their comorbidities”</i></p> <p style="text-align: center;"><b>Sandra Vaz</b> (Instituto de Medicina Molecular, Lisbon, Portugal)</p>
<b>16:45 – 17:00</b>	Coffee Break
<b>17:00 – 18:30</b>	<p><b>Session 3: Moving forward in Epilepsy Research and therapy (part 2)</b></p> <p style="text-align: center;"><i>“Genetic and Epigenetic Mechanisms as Diagnostic / Prognostic Biomarkers in Epilepsy”</i></p> <p style="text-align: center;"><b>Bárbara Leal</b> (University of Porto)</p> <p style="text-align: center;"><i>“Targeting neuropeptides and neurotrophic factors for gene therapy in epilepsy”</i></p> <p style="text-align: center;"><b>Merab Kokaia (via zoom)</b> (University of Lund)</p>



**DAY 3 – WEDNESDAY, 29<sup>TH</sup> OF SEPTEMBER 2021**

<b>9:00 – 11:15</b>	<p><b>Session 4: Understanding Epileptogenesis</b></p> <p><i>“Neuroinflammation in Epilepsy: cause and consequence, potential therapeutic targets and biomarkers”</i>  <b>Annamaria Vezzani (via zoom)</b>          (IRCCS – Mario Negri Institute for Pharmacological Research, Milan, Italy)</p> <p><i>“From pathology to the clinic of epilepsy”</i>  <b>José Pimentel</b>          (University of Lisbon)</p> <p><i>“Neurotrophic factors in epileptogenesis”</i>  <b>Michele Simonato (via zoom)</b>          (IRCCS San Raffaele Hospital, Milan, Italy)</p>
<b>11:15 – 11:30</b>	Coffee Break
<b>11:30 – 12:00</b>	Poster Session ( <i>even numbers presenting</i> )
<b>12:00 – 16:00</b>	<p>Work on Summer School projects + Lunch</p> <p>*Lunch available between 13:00 and 14:00</p>
<b>16:00 – 16:15</b>	Coffee
<b>16:15 – 18:30</b>	<p><b>Session 5: Neurodevelopmental epilepsies:</b></p> <p><i>What do we know? What do we need to know?</i></p> <p><i>“mTORopathies” and Epileptogenesis</i>  <b>Eleanora Aronica (via zoom)</b>          (Amsterdam UMC, University of Amsterdam, Netherlands)</p> <p><i>“Epilepsy - is it a neurodevelopmental disorder?”</i>  <b>Andreia Gomes Pereira</b>          (Dona Estefânia Hospital, Lisbon, Portugal)</p> <p><i>“Epileptic Crisis Detection and Prediction: a Multimodal Approach Towards Continuous Monitoring and Personalised Medicine”</i>  <b>Ana Fred</b>          (University of Lisbon, Portugal)</p>



**DAY 4 – THURSDAY, 30<sup>TH</sup> OF SEPTEMBER 2021**

<b>9:00 – 10:30</b>	<b>Workshop on Technology Transfer and Data Protection</b> <b>Bárbara Gomes</b> (Technology Transfer Office) (Instituto de Medicina Molecular, Portugal)
<b>10:30 – 11:00</b>	Coffee Break
<b>11:00 – 15:15</b>	Working on Summer School Projects + Lunch* *Lunch available between 13:00 and 14:00
<b>15:15 – 16:45</b>	<b>Session 6: From bench to the bedside towards the market:</b> <b><i>Adventures of a novel antiepileptic drug (part 1)</i></b>  <i>“Focus on Eslicarbazepine acetate:          From clinical studies to clinical practice”</i> <b>Filipa Gonçalves</b> (Bial, Portugal)  <i>“Unconventional effects of old and novel          antiepileptic drugs”</i> <b>Eleonora Palma</b> (University of Rome Sapienza, Italy)
<b>16:45 – 17:00</b>	Coffee Break
<b>17:00 – 18:30</b>	<b>Session 6: From bench to the bedside towards the market:</b> <b><i>Adventures of a novel antiepileptic drug (part 2)</i></b>  <i>(title to be defined)</i> <b>Mário Miguel Rosa (via zoom)</b> (Hospital of Santa Maria, Lisbon, Portugal) (INFARMED) (European Medicines Agency)  <i>“Strategies to promote the transport of drugs across the blood-brain          barrier”</i> <b>Mária Deli</b> (Biological Research Centre, Szegeb, Hungary)



#### DAY 5 – FRIDAY, 1<sup>ST</sup> OF OCTOBER 2021

9:00 – 10:30	<b>Project presentation and discussion (part 1)</b>
10:30 – 11:00	Coffee Break
11:00 – 12:30	<b>Project presentation and discussion (part 2)</b>
12:30 – 13:00	Closing Session
13:00 – 14:00	Lunch
14:00	Bus leaving Tryp Hotel to Lisbon
14:00 – 18:00	<b>Afternoon Farewell Activity</b> ( <i>Lisbon City Tour</i> )

#### SPONSORS:



#### FUNDING:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952455