

IC - PTE



MILANO, ITALY | May 15th - 18th 2024

SCIENTIFIC PROGRAMME

WEBSITE:

www.ic-pte2024.com

LOCATION:

Mario Negri Institute, Via Mario Negri, 2, 20156 Milano MI

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Day 1

May 15th 2024

6:00 - 8:00 pm	Evening Opening Reception
6:30 - 6:45 pm	Challenges in PTE Research: The Need for Biomarkers and Research Standards Severn B. Churn, PhD (Program Director of Synapses, Channels and Neural Circuits NIH, USA)

Day 2

May 16th 2024

9:00 am	<u>Welcome and Opening Remarks</u> Laura Lubbers, PhD (Chief Scientific Officer, CURE Epilepsy, USA); Elisa Zanier, MD (Head of Department, Mario Negri Institute for Pharmacological Research, Italy), Giuseppe Remuzzi, MD (Director of Mario Negri Institute for Pharmacological Research, Italy)	
9:20 am	<u>Post-Traumatic Epilepsy: The Lived Experience</u> Introduction by: Laura Lubbers, PhD (Chief Scientific Officer, CURE Epilepsy, USA)	
	9:20 am	Lived Experience Perspective Jack Somers (Captain, United State Marine Corps, Retired) Moment of Silence & Reflection
9:40 am	<u>Clinical PTE: Recent Advances, Challenges and Solutions</u> Introduction, Session Moderator Ramon Diaz-Arrastia, MD, PhD (Director TBI Clinical Res. Center, University of Pennsylvania, USA)	
	9:45 am	Overview of PTE and Goals of the Conference Ramon Diaz-Arrastia, MD, PhD (Director TBI Clinical Res. Center, University of Pennsylvania, USA)
	10:05 am	Mechanistic Targets for PTE Prevention Wolfgang Löscher, PhD (Professor, Hanover Medical School, Germany)
	10:25 am	Advances in the Neuropathological Characterization of PTE following TBI Victoria Johnson, MBChB, PhD (Assistant Professor, University of Pennsylvania, USA)
	10:45 am	Predicting PTE Risk: The Development of a Risk Tool for PTE Amy Wagner, MD (Professor, University of Pittsburgh, USA)
11:10 am	COFFEE BREAK	
	11:40 am	Synthesis of Concepts and Discussion of Next Steps Moderator and Discussant: Ramon Diaz-Arrastia, MD, PhD <u>Discussion Questions:</u> 1. How will we select the first/best biological mechanisms to test in clinical trials? 2. What supporting data will be required?

12:30 pm	Promising Clinical Biomarkers of PTE Introduction, Session Moderator: David Brody, MD, PhD (Professor, Uniformed Services University, USA)	
	12:35 pm	Blood-Based Biomarkers of PTE Kevin Wang, PhD (Vice-Chair for Research, Morehouse School of Medicine, USA)
	12:55 pm	Immune-Based Biomarkers: Lessons from TBI Edward Needham, MD, PhD (Consultant Neurologist, Clinical Research Associate, University of Cambridge, UK)
	1:15 pm	EEG Biomarkers: Lessons from the ICU About Acquired Epilepsy Edilberto Amorim, MD (Assistant Professor, University of California, San Francisco, USA)
1:35 pm	LUNCH BREAK	
	2:35 pm	Innovations in Brain Imaging: Implications for Post-Traumatic Epilepsy David Brody, MD, PhD (Professor, Uniformed Services University, USA)
	2:55 pm	Blood-Borne Protein Biomarkers of Post-Traumatic Epileptogenesis; Gaps and Solutions Denes Agoston, MD, PhD (Professor, Uniformed Services University, USA)
	3:15	Synthesis of Concepts and Discussion of Next Steps Session Moderator and Discussant: David Brody, MD, PhD <u>Discussion Questions:</u> 1. What criteria must be met to establish that biomarkers are ready for use? 2. What level of characterization and sensitivity threshold is required?
4:00 pm	COFFEE BREAK	
4:20 pm	PTE: The Industry Perspective on Needs for a Clinical Trial Moderator: Douglas Smith, MD (Professor of Neurosurgery, Director, Center for Brain Injury and Repair, University of Pennsylvania, USA)	
	4:25 pm	Needs for Developing Biomarkers for PTE Clinical Trials William Haskins, PhD (CEO and Co-Founder, Gryphon Bio, USA)
	4:45 pm	Challenges in the Path to a Clinical Trial: The Startup Perspective Pavel Klein, MD (Neurologist and Director, Mid-Atlantic Epilepsy and Sleep Center, President and Co-founder, PrevEp, Inc, USA)
	5:05 pm	Synthesis of Concepts and Discussion of Next Steps Session Moderator and Discussant: Douglas Smith, MD <u>Discussion Questions:</u> 1. How do we foster collaboration between industry partners and researchers? 2. How do we ensure we address industry needs to move the field forward?
5:10 - 7:00 pm	POSTER SESSION & RECEPTION	

Day 3

May 17th 2024

9:00 am	<u>Welcome and Day 1 Recap</u> Elisa Zanier, MD (Head of Department, Mario Negri Institute for Pharmacological Research, Italy)	
9:10 am	<u>Partnering with the Lived Experience PTE Community</u> Melissa Miller, PhD (Health Services Program Manager, US Department of Defense)	
9:30 am	<u>Preclinical PTE: Recent Advances, Challenges and Solutions</u> Introduction, Session Moderator: David Loane, PhD (Associate Professor, Trinity College Dublin, Ireland)	
	9:35 am	<u>Neuroinflammation as a Mechanism of Epileptogenesis: Insights from Status Epilepticus Models</u> Annamaria Vezzani, PhD (Laboratory Head, Mario Negri, Italy)
	9:55 am	<u>Determining the Validity of Preclinical Animal Models</u> Aristea Galanopoulou, MD, PhD (Professor, Albert Einstein College of Medicine, USA)
	10:15 am	<u>Challenges and Advances in Large Animal Models</u> John Wolf, PhD (Associate Professor, University of Pennsylvania, USA)
10:35 am	COFFEE BREAK	
	11:30	<u>Synthesis of Concepts and Discussion of Next Steps</u> Session Moderator and Discussant: David Loane, PhD <u>Discussion Questions:</u> 1. How will we select the first/best biological mechanisms to test in clinical trials? 2. What supporting data will be required?
12:15 pm	<u>Promising Preclinical Biomarkers of PTE, pt 1</u> Introduction, Session Moderator: Kevin Staley, MD (Physician Investigator, Professor, Mass General, Harvard School of Medicine, USA)	
	12:20 pm	<u>Multi-omic Biomarkers of PTE</u> Firas Kobaissy, PhD (Morehouse School of Medicine, USA)
	12:40 pm	<u>Imaging Biomarkers of PTE</u> Federico Moro, PhD (Researcher, Mario Negri, Italy)
	1:00 pm	<u>Preclinical EEG Biomarkers of PTE</u> Asla Pitkänen, MD, PhD (Professor of Neurobiology, University of Eastern Finland, Finland)

1:20 pm	LUNCH BREAK	
2:20 pm	Promising Preclinical Biomarkers of PTE, pt 2 Introduction, Session Moderator: Kevin Staley, MD (Physician Investigator, Professor, Mass General, Harvard School of Medicine, USA)	
	2:25 pm	Developing Treatments for PTE: The Translational View Terri O'Brien, MD (Professor, Monash University, Australia)
	2:45 pm	Synthesis of Concepts and Discussion of Next Steps Session Moderator and Discussant: Kevin Staley, MD <u>Discussion Questions:</u> 1. When are biomarkers ready for use? 2. What level of characterization and sensitivity threshold is required?
3:30 pm	Hot Topics in PTE: Data Blitz Presentations Introduction, Session Moderator: Christopher Dulla, PhD (Professor, Tufts University, USA)	
	EARLY CAREERS WINNERS	
	3:35 pm	Ilaria Lisi, Mario Negri Institute, Italy
	3:45 pm	Bin Gu, PhD, Ohio State University, USA
	3:55 pm	Irma Ngadimon, PhD, Monash University, Malaysia
	ORAL PRESENTATIONS	
	4:05 pm	Justin Weppner, MD, Virginia Tech Carilion School of Medicine, USA
	4:15 pm	Tawfeeq Shekh-Ahmad, PhD, Hebrew University of Jerusalem, Israel
	4:25 pm	Discussion Session Moderator and Discussant: Christopher Dulla, PhD
5:00 pm	Wrap-up for day	
6:00 pm	Buses to Science Museum tour and dinner	
7:30 pm	Dinner	

Day 4

May 18th 2024

9:00 am	<p><u>Welcome and Recap</u> Co-Chair Elisa Zanier, PhD (Laboratory Head, Mario Negri, Italy)</p>	
	9:10 am	<p>Involvement of Affected Individuals and the Public in PTE Clinical Research Daniel Correa, MD, MS (Assistant Professor, Montefiore Medical Center, Albert Einstein College of Medicine, USA)</p>
9:30 am	<p><u>Developing the Data Infrastructure Needed for Progress in PTE</u> Introduction, Session Moderator: Severn B. Churn, PhD (Program Director of Synapses, Channels and Neural Circuits NIH, USA)</p>	
	9:35 am	<p>Federated Platforms/Systems for Validation and Optimization of Preclinical Findings Joost Wagenaar, PhD (Assistant Professor, University of Pennsylvania, USA)</p>
	9:55 am	<p>Harnessing the Power of Big Data for PTE Analysis: Next Steps in Multi-Modal Data Analysis and Field-Wide Data Standardization Dominique Duncan, PhD (Assistant Professor, University of Southern California, USA)</p>
	10:15 am	<p>Data Sharing and Standardization: Lessons from the Federal Inter-agency TBI Research (FITBIR) Informatics System Hibah Awwad, PhD (Program Director, Traumatic Brain Injury, NINDS, NIH, USA)</p>
	10:35 am	<p>Discussion (Talk and Discussion) Session Moderator and Discussant: Severn B. Churn, PhD <u>Discussion Questions:</u> 1. What considerations must be taken into account, from the researchers' perspective, to ensure buy-in to federated data ecosystem? 2. What additional resources or technology are needed to achieve multimodal analysis?</p>
11:20 am	COFFEE BREAK	
11:40 am	<p><u>The Roadmap to an Interventional Trial for PTE</u> Moderator: Laura Lubbers, PhD (Chief Scientific Officer, CURE Epilepsy, USA), Elisa R. Zanier, MD (Department Head, Mario Negri Institute, Italy)</p> <p>Based on discussion during the conference, an outline of a PTE action plan will be presented for discussion. A set of panelists, along with the general audience, will discuss this plan.</p> <p><i>Panelists: Christopher Dulla PhD, Daniel Correa MD MS, Douglas Smith MD, Mary Jo Pugh PhD RN, Pavel Klein MD and Ramon Diaz-Arrastia MD PhD.</i></p>	
1:00 pm	ADJOURN	