



INTS2020

**14th Symposium of the International Neurotrauma Society
Melbourne, Australia**

Symposium Program (delivered online February 7-11, 2021)



INSTRUCTIONS: view all presentations of interest and note your questions within the portal. LIVE Q&A sessions for these presentations will be held at 7:00-9:00 AEDT TUE 9 FEB

MONDAY 8 FEBRUARY 2021

Keynote Address - Update on neurotrauma clinical trials

The emerging science and art of precision medicine in TBI care – lessons from InTBIR
David Menon, University of Cambridge (UK)

Patient outcomes at twelve months after early decompressive craniectomy for diffuse traumatic brain injury in the randomised DECRA Clinical Trial
Jamie Cooper, Alfred Hospital (AU)

Repair and Regeneration of the Injured Spinal Cord: From Molecule to Man
Michael Fehlings, University of Toronto (CA)

Plenary : Rethinking glial roles in CNS injury

Reactive astrocytes, acute injury, and neuron function
Shane Liddelow, New York University (US)

Harnessing the neuroprotective potential of reactive astrocytes after CNS injuries
James Bourne, Monash University (AU)

Chronic changes in remyelination after spinal cord injury
Dana McTigue, Ohio State University (US)

CNS regeneration after injury

Personalised medicine in neurotrauma

Exploring the nexus between TBI and dementia

Proudly Sponsored by Wicking Dementia Research and Education Centre

Evidence for Neocortical Circuit Disruption following Mild Traumatic Brain Injury
John Povlishock, Virginia Commonwealth University (US)

Traumatic Microvascular Injury: Developing Biomarkers for Targeted Therapies
Ramon Diaz-Arrastia, University of Pennsylvania (US)

New Insights into the Evolving Neuropathologies of Traumatic Brain Injury
Victoria Johnson, University of Pennsylvania (US)

Repopulating microglia promote brain repair in an IL-6-dependent manner
Jana Vukovic, University of Queensland (AU)

Using advanced brain monitoring as clinical and research tools in paediatric TBI
Anthony Figaji, University of Cape Town (ZA)

Pathology versus physiology - can repetitive head impact drive chronic cognitive impairment without pathology?
Mark Burns, Georgetown University (US)

Make do and make new: how zebrafish rapidly regenerates CNS injury
Jan Kaslin, Monash University (AU)

Utility of a Novel Combined Blood-based Biomarker Panel of Major Subphenotypes of paediatric Traumatic Brain Injury as a Prognostic Tool for Long Term Outcomes
Jennifer Munoz Pareja, University of Florida (US)

The evolving understanding of the TBI and dementia link: Neuroinflammation as a key piece of a complex puzzle
Lyndsey Collins-Praino, University of Adelaide (AU)

Microglia limit lesion expansion and promote functional recovery after spinal cord injury in mice
Faith Brennan, Ohio State University (US)

Predicting Outcome after Traumatic Brain Injury using IMPACT - a single-center study
Elham Rostami, Uppsala University Hospital (SE)

Aging with traumatic brain injury: Effects of age at injury on neuropathology following diffuse brain injury in rats
Jenna Ziebell, University of Tasmania (AU)

Transection injury of axons of iPSC-derived human neurons demonstrates capacity for regeneration
James Vickers, University of Tasmania (AU)

Differences between Men and Women in Treatment and Outcomes following Traumatic Brain Injury
Ana Mikolić, Department of Public Health (NL)

Statistical equivalence of resting-state functional correlation patterns in the default mode networks of patients with Alzheimer's disease vs geriatric victims of mild traumatic brain injury
Andrei Irimia, University of Southern California (US)

Neuroinflammation

Concussion management and guidelines

Data Blitz A

Clinical Studies of Neuroinflammation in Traumatic Brain Injury
Adel Helmy, University of Cambridge (UK)

Development of sports concussion management guidelines
Gavin Davis, Austin Health (AU)

Mild traumatic brain injury causes complex, dynamic and potentially persistent neurobiological changes that are reflected in changes in a panel of novel, blood-based protein biomarkers
Denes Agoston

Astrocyte signatures of neurotrauma endophenotypes
Ina-Beate Wanner, University of California, Los Angeles (US)

Management of persistent symptoms after childhood concussion: using biology to inform practice
Karen Barlow, University of Queensland (AU)

Early Tranexamic Acid (TXA) Administration After Traumatic Brain Injury (TBI) May Reduce Levels of Angiopoietin-2 in Patients with Intracranial Hemorrhage (ICH)
Taylor Anderson

Influence Of Interleukin-4 On Secondary Brain Damage After Experimental Traumatic Brain Injury
Johannes Walter, University Hospital Heidelberg (DE)

Cognitive Behavioral Intervention for Persistent Post-Concussion Symptoms in Youth: Targeting autonomic dysregulation
Aliyah Snyder, University of California, Los Angeles (US)

Diagnosis and Management of Concussion in General Practice
Gill Cowen

Understanding the mechanism of action of intravenous immunoglobulin in acute spinal cord injury
Ellen Gillespie, University of Queensland (AU)

Postural Orthostatic Tachycardia after Mild Traumatic Brain Injury
Rachel Pearson, University of California, Los Angeles (US)

Implementing a Novel Lesion Symptom Mapping Workflow for Analysing Structural Images from the ENIGMA Brain Injury Working Group
Evelyn Deutscher

Proteomic Analysis of Serum and Cerebrospinal Fluid Reveals a Key Role for Inflammatory Proteins as Biomarkers for Outcome and Blood-Brain Barrier Disruption following Severe Traumatic Brain Injury
Caroline Lindblad, Karolinska Institute (SE)

Randomised Evaluation Of Surgery In Elderly With Traumatic Acute Subdural Hematoma
Ranjit Dhillon Singh

Free Water Imaging in Chronic TBI: A Novel Biomarker of Microvascular Disruption
Ramon Diaz-Arrastia

Automatic Tool To Identify Epileptiform Activity In EEG Of Traumatic Brain Injury Patients
Dominique Duncan

Murine repetitive mild traumatic brain injury produces sex and time dependent T cell and macrophage infiltration along with reductions in astrocyte and microglia reactivity
Eric Eyolfson

The Primed Suspect; The Link Between TBI And Dementia
Olivia Holloway

Longitudinal Characterization of Vasogenic Brain Edema Formation by in vivo 2-Photon Microscopy after Experimental Traumatic Brain Injury
Yue Hu

Statistically equivalent distribution of cortical thinning and white matter degradation in geriatric patients with mild traumatic brain injury relative to Alzheimer's disease
Andrei Irimia

Protein Biomarkers in TBI; Technical Workshop - Denes Agoston, Stefania Mondello, Ramon Diaz-Arrastia, Adel Helmy, Stuart McDonald and Kevin Wang, USA

TUESDAY 9 FEBRUARY 2021

Keynote Address - Update on neurotrauma clinical trials - Live Session			
7:00am - 7:30am AEDT	<i>Chairperson: Robert Vink</i>		
	The emerging science and art of precision medicine in TBI care – lessons from InTBIR David Menon, University of Cambridge (UK)		
	Patient outcomes at twelve months after early decompressive craniectomy for diffuse traumatic brain injury in the randomised DECRA Clinical Trial Jamie Cooper, Alfred Hospital (AU)		
	<i>Michael Fehlings Live Q&A Session will be held on 10 February 2021</i>		
Plenary : Rethinking glial roles in CNS injury - Live Session			
7:30am - 8:00am AEDT	<i>Chairperson: James Vickers</i>		
	Reactive astrocytes, acute injury, and neuron function Shane Liddelow, New York University (US)		
	Harnessing the neuroprotective potential of reactive astrocytes after CNS injuries James Bourne, Monash University (AU)		
	Chronic changes in remyelination after spinal cord injury Dana McTigue, Ohio State University (US)		
CNS regeneration after injury - Live Session	Personalised medicine in neurotrauma - Live Session	Exploring the nexus between TBI and dementia - Live Session <i>Proudly Sponsored by Wicking Dementia Research and Education Centre</i>	
8:00am - 8:30am AEDT	<i>Chairperson: Anna Leonard</i>	<i>Chairperson: Frances Corrigan</i>	<i>Chairperson: James Vickers</i>
	Evidence for Neocortical Circuit Disruption following Mild Traumatic Brain Injury John Povlishock, Virginia Commonwealth University (US)	Traumatic Microvascular Injury: Developing Biomarkers for Targeted Therapies Ramon Diaz-Arrastia, University of Pennsylvania (US)	New Insights into the Evolving Neuropathologies of Traumatic Brain Injury Victoria Johnson, University of Pennsylvania (US)
	Repopulating microglia promote brain repair in an IL-6-dependent manner Jana Vukovic, University of Queensland (AU)	Using advanced brain monitoring as clinical and research tools in paediatric TBI Anthony Figaji, University of Cape Town (ZA)	Pathology versus physiology - can repetitive head impact drive chronic cognitive impairment without pathology? Mark Burns, Georgetown University (US)
	Make do and make new: how zebrafish rapidly regenerates CNS injury Jan Kaslin, Monash University (AU)	Utility of a Novel Combined Blood-based Biomarker Panel of Major Subphenotypes of paediatric Traumatic Brain Injury as a Prognostic Tool for Long Term Outcomes Jennifer Munoz Pareja, University of Florida (US)	The evolving understanding of the TBI and dementia link: Neuroinflammation as a key piece of a complex puzzle Lyndsey Collins-Praino, University of Adelaide (AU)
	Microglia limit lesion expansion and promote functional recovery after spinal cord injury in mice Faith Brennan, Ohio State University (US)	Predicting Outcome after Traumatic Brain Injury using IMPACT - a single-center study Elham Rostami, Uppsala University Hospital (SE)	Aging with traumatic brain injury: Effects of age at injury on neuropathology following diffuse brain injury in rats Jenna Ziebell, University of Tasmania (AU)
Transsection injury of axons of iPSC-derived human neurons demonstrates capacity for regeneration James Vickers, University of Tasmania (AU)	Differences between Men and Women in Treatment and Outcomes following Traumatic Brain Injury Ana Mikolić, Department of Public Health (NL)	Statistical equivalence of resting-state functional correlation patterns in the default mode networks of patients with Alzheimer's disease vs geriatric victims of mild traumatic brain injury Andrei Irimia, University of Southern California (US)	
Neuroinflammation - Live Session	Concussion management and guidelines - Live Session		
8:30am - 9:00am AEDT	<i>Chairperson: Cristina Morganti-Kossmann</i>	<i>Chairperson: Robert Vink</i>	
	Clinical Studies of Neuroinflammation in Traumatic Brain Injury Adel Helmy, University of Cambridge (UK)	Development of sports concussion management guidelines Gavin Davis, Austin Health (AU)	
	Astrocyte signatures of neurotrauma endophenotypes Ina-Beate Wanner, University of California, Los Angeles (US)	Management of persistent symptoms after childhood concussion: using biology to inform practice Karen Barlow, University of Queensland (AU)	
	Influence Of Interleukin-4 On Secondary Brain Damage After Experimental Traumatic Brain Injury Johannes Walter, University Hospital Heidelberg (DE)	Cognitive Behavioral Intervention for Persistent Post-Concussion Symptoms in Youth: Targeting autonomic dysregulation Aliyah Snyder, University of California, Los Angeles (US)	
	Understanding the mechanism of action of intravenous immunoglobulin in acute spinal cord injury Ellen Gillespie, University of Queensland (AU)	Postural Orthostatic Tachycardia after Mild Traumatic Brain Injury Rachel Pearson, University of California, Los Angeles (US)	
Proteomic Analysis of Serum and Cerebrospinal Fluid Reveals a Key Role for Inflammatory Proteins as Biomarkers for Outcome and Blood-Brain Barrier Disruption following Severe Traumatic Brain Injury Caroline Lindblad, Karolinska Institute (SE)			

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TUESDAY 9 FEBRUARY 2021

Plenary Address - Advances in neuroimmunology

Beyond Post-Concussion Syndrome: Treating Persistent Post-Concussion Symptoms
Chris Giza, University of California, Los Angeles (US)

The microglial scar: Microglia are a key component of the protective scar that forms after SCI
Steven Lacroix, Laval University (CA)

Bi-directional brain-immune system crosstalk in neurotrauma: methodological challenges and therapeutic implications
Alan Faden, University of Maryland (US)

Effects of neurotrauma outside of the CNS	Latest updates on clinical trials and international neurotrauma consortia	Data Blitz B
Neurogenic systemic immune dysfunction after neurotrauma – clinical relevance and experimental evidence Jan Schwab, Ohio State University (US)	TRACK-TBI: A Prospective Longitudinal Multicenter Precision Medicine Study of TBI Geoff Manley, University of California, San Francisco (US)	Investigating the relevance of tau and metal ions in the development of neurodegeneration following repetitive mild traumatic brain injury Sydney Juan
The intersection between matrix metalloproteinases and bladder compliance after spinal cord injury: Tackling the “low hanging fruit” Linda Noble-Haeusslein, University of Texas at Austin (US)	Acute care variables and blood transcriptomics to predict the severity and outcomes in SCI: TRACK-SCI Michael Beattie, University of California, San Francisco (US)	Explosive Blast Overpressure or Acoustic Insult? Cognitive Performance Deficit Replicated in High Sound Pressure and Low Blast Overpressure Walter Carr
The effect of stroke outside the brain Connie Wong, Monash University (AU)	Preclinical multicenter studies for discovery of biomarkers and treatments to prevent epileptogenesis after TBI – challenges and opportunities Asla Pitkanen, University of Eastern Finland (FI)	Metabolic supplementation in a glial cell culture model of TBI Monica J Killen
Gut microbial dysbiosis after traumatic brain injury induces alterations in the immune response and fear memory Marta Celorrio-Navarro, Washington University (US)	Long-term outcomes in traumatic brain injury: implications for clinical trial design David Okonkwo, University of Pittsburgh (US)	NeuroAid in Spinal Cord Injury Ramesh Kumar
Imaging biomarkers for autonomic dysfunction in Traumatic Brain Injury Jay Gajera, Jay Gajera Pty Ltd (AU)	Presentation, management and outcome of Epidural Hematomas: a CENTER-TBI study Dana Pisica, Erasmus Medical Center (NL)	NeuroAid in Traumatic Brain Injury Ramesh Kumar
		Prediction of global outcome and post-concussive symptoms following mild traumatic brain injury: external validation of prognostic models in the CENTER- TBI data Ana Mikolić
		Focal and diffuse brain trauma elicit individual neuroinflammatory responses and biomarker production Cristina Morganti-Kossmann
		Early hypoxia defined using brain tissue oxygenation and its relation to late atrophy and neuronal loss after traumatic brain injury Virginia Newcombe
		Ultra-early versus early magnetic resonance imaging for mild traumatic brain injury: a CENTER-TBI study Virginia Newcombe
Neuromodulation in neurotrauma	Novel biomarkers of injury	
Brain stimulation for neurotrauma: insights from preclinical models Jennifer Rodger, University of Western Australia (AU)	Circulating Extracellular Vesicles in Traumatic Brain Injury: Temporal Profile, Outcome Prediction and Therapy Implications Stefania Mondello, University of Messina (IT)	
rTMS to Treat Persistent Post Concussive Symptoms Heather Godfrey, University of Calgary (CA)	Circulating microRNAs as potential biomarkers for assessing vasospasm risk following aneurysmal subarachnoid hemorrhage Wang-Xia Wang, University of Kentucky (US)	
Reversing Twenty-one Years Of Chronic Paralysis Via Non-invasive Spinal Cord Neuromodulation: A Case Report Monzurul Alam, The Hong Kong Polytechnic University (HK)	Salivary non-coding RNA: the next generation of biomarkers in concussion Valentina Di Petros, University of Birmingham (UK)	
Chemogenetic interventions on parvalbumin interneuron modify neuronal and enhance neuroprotection post TBI Florian Olde Heuvel, Universityclinic Ulm (HR)	Temporal and Trajectory Profiles of Six TBI Serum Biomarkers: A Large Cohort CENTER-TBI study Kevin Wang, University of Florida (US)	
	Tau as a Potential Biomarker for Long Term Outcome in Paediatric Traumatic Brain Injury Jennifer Munoz Pareja, University of Florida (US)	

WEDNESDAY 10 FEBRUARY 2021

Plenary Address - Advances in neuroimmunology - Live Session		
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	The microglial scar: Microglia are a key component of the protective scar that forms after SCI Steven Lacroix, Laval University (CA)	
	Bi-directional brain-immune system crosstalk in neurotrauma: methodological challenges and therapeutic implications Alan Faden, University of Maryland (US)	
	Repair and Regeneration of the Injured Spinal Cord: From Molecule to Man Michael Fehlings, University of Toronto (CA)	
Effects of neurotrauma outside of the CNS - Live Session	Latest updates on clinical trials and international neurotrauma consortia - Live Session	
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8:30am - 9:30am AEDT	<i>Chairperson: Denes Agoston</i>	
Protein Biomarkers in TBI; Technical Workshop - Denes Agoston, Stefania Mondello, Ramon Diaz-Arrastia, Adel Helmy, Stuart McDonald and Kevin Wang, USA - Live Session		

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WEDNESDAY 10 FEBRUARY 2021

Plenary Address - Evidence-based neurorehabilitation

Improving outcome after TBI with evidence-based rehabilitation
Jennie Ponsford, Monash University (AU)

Predictors of resilience and early vulnerability after early brain injury
Vicki Anderson, University of Melbourne (AU)

Enhancing activity-dependent plasticity through neuromodulation following spinal cord injury
Claudia Angeli, University of Louisville (US)

Advances in neuroimaging

Cell therapies for neurotrauma

Chronic outcomes after neurotrauma (clinical)

What can neuroimaging tell us about TBI? Insights gained from CENTER-TBI
Virginia Newcombe, University of Cambridge (UK)

Transplantation of human neural stem cells for repair after spinal cord injury in the primate
Jackie Bresnahan, University of California, San Francisco (US)

Effect of sex and age on quality of life up to ten years after traumatic brain injury
Katrin Rauen, University of Zurich (CH)

Current Protocol and Advances in Neuroimaging for Concussion
Meng Law, Monash University (AU)

Combining Neural Progenitor Cell Transplantation with an Activity-based Therapy after Cervical Spinal Cord Injury
Michael Lane, Drexel University (US)

Exploring The Invisible Wound: Neuropathology Studies Of Military TBI
Daniel Perl, Uniformed Services University (US)

TBC
Elisabeth Wilde, University of Utah (US)

Amnion cell therapy for acute stroke
Chris Sobey, La Trobe University (AU)

Post-traumatic epilepsy following traumatic brain injury: Can it be prevented?
Terence O'Brien, Monash University (AU)

White Matter Disruption after paediatric Moderate/Severe TBI: Results from the ENIGMA paediatric msTBI Working Group
Emily Dennis, University of Southern California (US)

Long-term effects of neural precursor cell (NPC) transplantation on secondary injury processes and functional recovery after cervical compression-contusion spinal cord injury (SCI)
Alexander Younsi, University of Heidelberg (DE)

Long-term Cognitive Functioning Decades after Traumatic Brain Injury
Amelia Hicks, Monash University (AU)

Perturbations Of The Human Chronectome Are Related To Poor Recovery After Mild To Moderate Traumatic Brain Injury
Harm Jan Van Der Horn, University of Groningen (NL)

Analysis of human neural stem cell migration in naive mouse brain and towards traumatic brain injury using clarity
Benoit Mouzon, Roskamp Institute (US)

Fluid biomarkers of mild traumatic brain injury: New insights using Simoa® technology - Proudly Sponsored by Quanterix

Chronic outcomes after neurotrauma (experimental)

Update on acute critical care

Data Blitz C

Proteomic analysis of response to treatment in mouse models of repetitive mild TBI
Fiona Crawford, The Roskamp Institute (US)

The role of decompressive craniectomy in the management of severe TBI
Jeffrey Rosenfeld, Alfred Hospital (AU)

P-tau as a Prognostic Biomarker Following Severe Traumatic Brain Injury
Ava Puccio
CYP2E1 is downregulated in experimental penetrating TBI and a polymorphism in this gene impairs working memory in Vietnam veterans with penetrating TBI
Elham Rostami

Preclinical models of tau propagation in TBI
Elisa Zanier, Mario Negri Institute (IT)

Update on clinical trials in traumatic brain injury
Peter Hutchinson, Cambridge University (UK)

Remote ischemic conditioning acutely attenuates peripheral inflammation and microglial activation after diffuse brain injury with long-term impact on behaviour and inflammation in both sexes of mice
Maha Saber

Mechanisms underlying long-term behavioral deficits following pediatric TBI
Ramesh Raghupathi, Drexel University (US)

MEDICO LEGAL ISSUES IN TBI :Indian Perspective
Gouri Kumar Prusty, Calcutta Medical Research Institute (IN)

Bad Behaviour: The Effects of Repetitive Mild Traumatic Brain Injury on Personality in Adolescent Rats
Sabrina Salberg

Long-term effects of a mild TBI in adolescence on executive function in pre-clinical models
Frances Corrigan, University of South Australia (AU)

Fluid Management in Traumatic Brain Injury Patients: A CENTER-TBI Study
Mathieu van der Jagt

Large animal models: improving clinical translation in traumatic brain injury
Jessica Sharkey

The synaptic signature of chronic traumatic encephalopathy (CTE) is recapitulated after repetitive head impacts and drives cognitive impairment
Bevan Main, Georgetown University (US)

Delayed Neurosurgical Intervention In Traumatic Brain Injury Patients Referred From Primary Hospitals Is Not Associated With An Unfavorable Outcome
Eric Thelin, Cambridge University (UK)

Infections After a Paediatric Traumatic Brain Injury: How do they Worsen Outcomes?
Rishabh Sharma

Analysis of the Chronic Effects of Neurotrauma Consortium (CENC) Baseline Resting State Network Integrity: Interim Findings
David Tate

Traumatic brain injury-induced late-onset sensory hypersensitivity and sex-dependent changes in glutamate neurotransmission
Theresa Thomas

The Role Of Age In Treatment Differences For Traumatic Brain Injury
Ernest Van Veen

Clinical Experience, Re-operation Risk And Outcome Of 623 Patients With Chronic Subdural Hematoma And Antithrombotic Medication
Alexander Younsi

Neuroprotection Strategies

Vascular changes in neurotrauma

Neuropsychological outcomes after paediatric TBI

Targeting intra-axonal RyR and IP3R mediated Ca²⁺ reduces secondary axonal degeneration following a contusive-SCI in vivo
David Stirling, University of Louisville Kentucky (US)

Non-invasive Optical Blood Brain Barrier Measurement at the Bedside
Tony Belli, University of Birmingham (UK)

Divergent outcomes following moderate/severe TBI in children: Who recovers and why?
Talin Babikian, University of California, Los Angeles (US)

Acute Treatment With TrkB Agonist LM22A-4 Confers Neuroprotection And Improves Myelin Integrity In A Mouse Model Of Paediatric Traumatic Brain Injury
Jessica Fletcher, University of Melbourne (AU)

Longterm-term neurovascular alterations after juvenile mild traumatic brain injury
Jerome Badaut, University of Bordeaux (FR)

Subtle motor function – what does this tell us about paediatric brain injury and recovery?
Stacy Suskauer, Kennedy Krieger Institute (US)

The role of RIP1 and RIP3 in secondary brain damage after experimental traumatic brain injury
Antonia When, Institute for Stroke and Dementia Research (HR)

The effect of tranexamic acid on the blood-brain barrier and the immune response following traumatic brain injury is gender-dependent
Maria Dagalas, Monash University (AU)

Four-years later: Paediatric psychosocial functioning following mild TBI
Kelly Jones, Auckland University of Technology (NZ)

Neutralization of Interleukin 1 beta maintains pericyte coverage in the cortex and thalamus following diffuse traumatic brain Injury
Ilknur Ozen, Lund University (SE)

Mesenchymal stromal cells promote pericyte mediated stabilization of the blood brain barrier after traumatic brain injury
Tanya Barretto, St. Michael's Hospital (CA)

Concussions on Steroids: A Behavioural, Molecular, and Imaging Analysis of Anabolic Steroids in the Developing Brain
Jason Tabor, University of Calgary (CA)

A new heat shock protein inductor as a drug for rehabilitation therapy after traumatic brain injury
Vladimir Lazarev, Institute of Cytology Russian Academy of Sciences (RU)

Spatial and temporal pattern of ischaemia and abnormal vascular function following traumatic brain injury
Jonathan Coles, University of Cambridge (UK)

A disconnection between neuropsychological outcomes and structural brain alterations in pediatric TBI
Karen Caeyenberghs, Deakin University

THURSDAY 11 FEBRUARY 2021

Plenary Address - Evidence-based neurorehabilitation - Live Session				
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	Enhancing activity-dependent plasticity through neuromodulation following spinal cord injury Claudia Angeli, University of Louisville (US)			
Advances in neuroimaging - Live Session	Cell therapies for neurotrauma - Live Session	Chronic outcomes after neurotrauma (clinical) - Live Session		
<i>Chairperson: Sarah Hellewell</i>	<i>Chairperson: Cathy Gorrie</i>	<i>Chairperson: Sandy Shultz</i>		
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	TBC Elisabeth Wilde, University of Utah (US)	Amnion cell therapy for acute stroke Chris Sobey, La Trobe University (AU)	Post-traumatic epilepsy following traumatic brain injury: Can it be prevented? Terence O'Brien, Monash University (AU)	
	White Matter Disruption after paediatric Moderate/Severe TBI: Results from the ENIGMA paediatric msTBI Working Group Emily Dennis, University of Southern California (US)	Long-term effects of neural precursor cell (NPC) transplantation on secondary injury processes and functional recovery after cervical compression-contusion spinal cord injury (SCI) Alexander Younsi, University of Heidelberg (DE)	Long-term Cognitive Functioning Decades after Traumatic Brain Injury Amelia Hicks, Monash University (AU)	
	Perturbations Of The Human Chronnectome Are Related To Poor Recovery After Mild To Moderate Traumatic Brain Injury Harm Jan Van Der Horn, University of Groningen (NL)	Analysis of human neural stem cell migration in naïve mouse brain and towards traumatic brain injury using clarity Benoit Mouzon, Roskamp Institute (US)		
Chronic outcomes after neurotrauma (experimental) - Live Session		Update on acute critical care - Live Session		
<i>Chairperson: Jenna Ziebell</i>	<i>Chairperson: Anna Leonard</i>			
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	Preclinical models of tau propagation in TBI Elisa Zanier, Mario Negri Institute (IT)	Update on clinical trials in traumatic brain injury Peter Hutchinson, Cambridge University (UK)		
	Mechanisms underlying long-term behavioral deficits following pediatric TBI Ramesh Raghupathi, Drexel University (US)	MEDICO LEGAL ISSUES IN TBI :Indian Perspective Gouri Kumar Prusty, Calcutta Medical Research Institute (IN)		
	Long-term effects of a mild TBI in adolescence on executive function in pre-clinical models Frances Corrigan, University of South Australia (AU)	Fluid Management In Traumatic Brain Injury Patients: A CENTER-TBI Study Mathieu van der Jagt		
	The synaptic signature of chronic traumatic encephalopathy (CTE) is recapitulated after repetitive head impacts and drives cognitive impairment Bevan Main, Georgetown University (US)	Delayed Neurosurgical Intervention In Traumatic Brain Injury Patients Referred From Primary Hospitals Is Not Associated With An Unfavorable Outcome Eric Thelin, Cambridge University (UK)		
Neuroprotection Strategies - Live Session	Vascular changes in neurotrauma - Live Session	Neuropsychological outcomes after paediatric TBI - Live Session		
<i>Chairperson: Nicole Bye</i>	<i>Chairperson: Lindy Fitzgerald</i>	<i>Chairperson: Bridgette Semple</i>		
8:30am - 9:00am AEDT	Targeting intra-axonal RyR and IP3R mediated Ca2+ reduces secondary axonal degeneration following a contusive-SCI in vivo David Stirling, University of Louisville Kentucky (US)	Non-invasive Optical Blood Brain Barrier Measurement at the Bedside Tony Belli, University of Birmingham (UK)	Divergent outcomes following moderate/severe TBI in children: Who recovers and why? Talin Babikian, University of California, Los Angeles (US)	
	Acute Treatment With TrkB Agonist LM22A-4 Confers Neuroprotection And Improves Myelin Integrity In A Mouse Model Of Paediatric Traumatic Brain Injury Jessica Fletcher, University of Melbourne (AU)	Longterm-term neurovascular alterations after juvenile mild traumatic brain injury Jerome Badaut, University of Bordeaux (FR)	Subtle motor function – what does this tell us about paediatric brain injury and recovery? Stacy Suskauer, Kennedy Krieger Institute (US)	
	The role of RIP1 and RIP3 in secondary brain damage after experimental traumatic brain injury Antonia When, Institute for Stroke and Dementia Research (HR)	The effect of tranexamic acid on the blood-brain barrier and the immune response following traumatic brain injury is gender-dependent Maria Daglas, Monash University (AU)	Four-years later: Paediatric psychosocial functioning following mild TBI Kelly Jones, Auckland University of Technology (NZ)	
	Neutralization of Interleukin 1 beta maintains pericyte coverage in the cortex and thalamus following diffuse traumatic brain injury Ilknur Ozen, Lund University (SE)	Mesenchymal stromal cells promote pericyte mediated stabilization of the blood brain barrier after traumatic brain injury Tanya Barretto, St. Michael's Hospital (CA)	Concussions on Steroids: A Behavioural, Molecular, and Imaging Analysis of Anabolic Steroids in the Developing Brain Jason Tabor, University of Calgary (CA)	
	A new heat shock protein inductor as a drug for rehabilitation therapy after traumatic brain injury Vladimir Lazarev, Institute of Cytology Russian Academy of Sciences (RU)	Spatial and temporal pattern of ischaemia and abnormal vascular function following traumatic brain injury Jonathan Coles, University of Cambridge (UK)	A disconnection between neuropsychological outcomes and structural brain alterations in pediatric TBI Karen Caeyenberghs, Deakin University	
9:00am - 9:30am AEDT				
<i>Chairperson: Sandy Shultz</i>				
Fluid biomarkers of mild traumatic brain injury: New insights using Simoa® technology - Sponsored by Quanterix - Live Session				