

2024 meeting of the International NeuroTrauma Society

Cerebral Microdialysis Satellite Symposium

Crausaz Wordsworth Building, Robinson College, Cambridge Sunday 1st September 2024

09:00 - 09:30Arrival - Tea and Coffee - Registration (30 mins)09:30 - 09:40Welcome - Introduction (10 mins)

Peter Hutchinson / Ibrahim Jalloh / Keri Carpenter

SESSION I – Clinical experiences & protocols

CHAIRS - Ibrahim Jalloh and Keri Carpenter

- 09:40 10:05 TALK (20 mins + 5 mins Q&A) #1 Helmy / Baker (UK/USA) Helmy (Prof Adel) / Baker (Mr Michael) – "Protocol for tiered management strategy for TBI patients based on multimodality monitoring including microdialysis, and multidimensional cerebral microdialysis data in TBI: new paths for clinical intervention".
- 10:05 10:20TALK (10 mins + 5 mins Q&A) #2 Chen (USA)Chen (Prof Jefferson) "Innovations in the Implementation of Cerebral
Microdialysis at a Level I Trauma Center: an 8-year Experience".
- 10:20 10:35TALK (10 mins + 5 mins Q&A) #3 Sultan (Pakistan)Sultan (Prof Kashif Ali) "Analysis of cerebral Microdialysis in patients with
traumatic brain injury: relation to Intracranial Pressure and Cerebral
Compliance".
- 10:35 10:50TALK (10 mins + 5 mins Q&A) #4 Mangat (USA)Mangat (Prof Halinder) "Case series".
- 10:50 11:20 COFFEE (30 mins)

SESSION II – Continuous metabolic monitoring

CHAIRS - Jefferson Chen and Ibrahim Jalloh

- 11:20 11:40TALK (15 mins + 5 mins Q&A) #5 Puccio (USA)Puccio (Prof Ava) "Real-time measurement of potassium and glucose by
cerebral microdialysis in severe TBI patients: a pilot study".
- 11:40 12:00TALK (15 mins + 5 mins Q&A) #6 Strong (UK)Strong (Prof Anthony) "Brain glucose and spreading depolarisations: review
and update, with some first lessons from the Loke".
- 12:00 12:20TALK (15 mins + 5 mins Q&A) #7 Boutelle (UK)Boutelle (Prof Martyn) "Using online cerebral microdialysis to monitor the
brain during cardiac arrest and subsequent advanced life support".
- 12:20 12:50 TALK (25 mins + 5 mins Q&A) #8 Zimphango / Carpenter (UK)

	Zimphango (Mr Chisomo) / Carpenter (Dr Keri) – "Integration of cerebral microdialysis with sensor technology for continuous brain metabolic monitoring – the COMMIT project".
12:55 – 13:00	Conclusion of morning session and announcements (5 mins)
13:00 – 14:00	LUNCH (60 mins)
	 SESSION II – Continuous metabolic monitoring
	(continued) CHAIRS - Jefferson Chen and Ibrahim Jalloh
14:00 – 14:15	TALK (10 mins + 5 mins Q&A) #9 Svedung Wettervik (SWEDEN) Svedung Wettervik (Prof Teodor) – "Validation of the Loke Microdialysis in an experimental model: Are we ready for continuous monitoring of brain energy metabolism?"
	 SESSION III – Emerging applications CHAIRS - Ava Puccio and Ursula Rohlwink
14:15 – 14:30	TALK (10 mins + 5 mins Q&A) #10 Burns group (USA) Burns (Prof Terry) group: talk to be presented by Ha (Ms Yooree) – "Human glioma microdialysate: an intersecting signature of malignancy, BBB disruption, and CNS injury".
14:30 – 14:45	TALK (10 mins + 5 mins Q&A) #11 Stovell (UK) Stovell (Dr Matthew) – "Characterising cerebral microdialysis sampling region and retromicrodialysis delivery in-vitro and in-vivo with gadolinium contrast agents and MRI".
14:45 – 15:00	TALK (10 mins + 5 mins Q&A) #12 Mazzeo (ITALY) Mazzeo (Prof Anna Teresa) – "Microdialysis in transplant medicine and relevance to brain".
15:00 – 15:15	TALK (10 mins + 5 mins Q&A) #13 Rostami (SWEDEN) Rostami (Prof Elham) – "Uncovering the impact of genetic variations in TBI via microdialysis and proteomics: a path to personalized care"
15:15 – 15:45	TALK (25 mins + 5 mins Q&A) #14 Figaji (RSA) Figaji (Prof Anthony) – "Paediatric microdialysis".
15:45 – 16:05	TEA (20 mins)
	 SESSION IV – Microdialysis directions CHAIRS - Elham Rostami and Martyn Boutelle
16:05 – 16:35	TALK (25 mins + 5 mins Q&A) #15 Hutchinson (UK) Hutchinson (Prof Peter) – Microdialysis overview: present and future.
16:35 – 17:00	Panel Discussion (25 mins) Peter Hutchinson and other Session Chairs, with the audience.
17:00 – 17:10	Closing Remarks (10 mins) Peter Hutchinson.
17:10 - 18:00	Drinks Reception