

1st World Conference of Computational Neurosurgery

13-15 February 2026
Sydney, Australia | Hyatt Regency Sydney

B.Braun Australia Pty Ltd | Norwest Business Park NSW, 2153
tel. 1800 251 705 info.au@bbraun.com | australia.aesculap-academy.com

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Day 3

15 February 2026

07.00-08.00 am

Registrations

Opening and Computational Neurosurgery in Connectomics

Chair: Prof. Antonio Di Ieva

Time	Duration	Speaker	Talk	Country
8:00	0:05	Antonio Di Ieva	Opening and Introduction to Prof. Beheshti's Keynote	
8:05	0:20	Amin Beheshti	Keynote: Foundation Models for Neural Digital Twins	Australia
8:25	0:10	Steven Brem	The Glioma Connectome Project: How Connectomics and Neurooncology are intertwined	USA
8:35	0:20	Mac Shine	The Impact of the Human Thalamus on Brain-Wide Information Processing	Australia
8:55	0:05	Antonio Di Ieva	Introduction to Dr. Kateb's Keynote	
9:00	0:20	Babak Kateb	Keynote: Neurotech: From Nanoneurosurgery, Ai, Quantum and Supercomputing, Predictive Modeling, Neurophotonics, and Brain Mapping to Neurotech Policy	USA
9:20	0:10		BRAINSTORM	

9:30-10:00

Morning Break

Computational Neurosurgery in Brain Machine Interface

Chair: Prof. Jeffrey Rosenfeld

Time	Duration	Speaker	Talk	Country
10:00	0:05	Antonio Di Ieva	Introduction to Prof. Rosenfeld's Keynote	Australia
10:05	0:20	Jeffrey Rosenfeld	Keynote: Brain Machine Interface	Australia

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Computational Neurosurgery in Brain Machine Interface

Time	Duration	Speaker	Talk	Country
10:25	0:10	Andrew Morokoff	Brain-Computer Interface: Past and Future	Australia
10:35	0:10	Avinash Singh	Brain Machine Interfaces and Neuroethics in Neurosurgery	Australia
10:45	0:10		BRAINSTORM	

Ethical, Philosophical, and Juridical Aspects of Computational Neurosurgery

Chair: Profs Jeffrey Rosenfeld. Co-Chair: Prof. Margo Somerville and Prof. Antonio Di Ieva

Panelists: Katrina Hutchison, Rita Matulionyte, Wendy Rogers, Allan McCay, Aimee DeGaetano, Eric Suero Molina, Amin Tavallai, Quinlan Buchlak

Time	Duration	Speaker	Talk	Country
10:55	0:05	Antonio Di Ieva	Opening of the Session and Introduction to Dr. DeGaetano's Keynote	
11:00	0:20	Aimee DeGaetano	Keynote: Neuro-Digital Convergence: Multiomics, AI, Ethical Frontiers Et Computational Paradigms in 21st Century Neurosurgery	USA
11:20	0:10	Rita Matulionyte	Explainable AI and Legal Liability in Neurosurgery	Australia
11:30	0:10	Wendy Rogers	FUTURE-AI	Australia
11:40	0:10	Allan McCay	Neurorights for Computational Neurosurgeons	Australia
11:50	0:10	Margo Somerville	AI's Challenge to Medicine: To Map the Ethical Path Between Hope and Fear	Australia
12:00	0:45	All panelists and audience	BRAINSTORM	

Declaration of Sydney

Time	Duration	Speaker	Talk	Country
12:45	0:05	Jeffrey Rosenfeld	Reading of the Declaration of Sydney	
12:50	0:10	Whole panel and audience	Pledge of the Declaration of Sydney and Final Discussion	

Closure of the Conference

Time	Duration	Speaker	Talk	Country
13:00	0:10	Antonio Di Ieva	Closing Remarks	
13:10-14:00	0:50	Laura Rentschler	B. Braun Symposium Lunch	
14:00-17:00	3:00		FINAL REMARKS, REFRESHMENTS, AND AU REVOIR RECEPTION AT THE CHINESE GARDEN OF FRIENDSHIP	