Thurs 28 th July		Chair
8.00-8:50	Registration	
8.50 – 9.00	Welcome: Paul Fitzgerald	
9.00-9.30	Plenary Nicholas Opie, University of Melbourne Minimally Invasive Neural Interface	Paul Fitzgerald
9.30-10.00	Plenary Rob Shepherd, Bionics Institute and University of Melbourne Bionic ears, neurobionics and bioelectronics	Paul Fitzgerald
10.00-10.30	Top Ranked Presentations Robin Cash, Monash University. Influence of BDNF polymorphism on neural circuitry and relationship to plasticity in human motor cortex Jennifer Rodger, University of Western Australia Repetitive transcranial magnetic stimulation in a mouse model of depression	Kate Hoy
10:30 - 11.00	Morning Tea	
11.00-12.30	Free Presentations Session 1 (15 min presentations) Aron Hill, Monash University Effects of Prefrontal Bipolar and High-Definition Transcranial Direct Current Stimulation on Cortical Excitability, Oscillatory EEG Activity and Working Memory in Healthy Adults George Opie, University of Adelaide Modulating plasticity induction with priming theta burst stimulation in young and old adults Oyetunde Gbadeyan, University of Queensland Impact of high-definition tDCS set-up on cognitive control Rohan Puri, University of Tasmania Timing effects of M1 anodal transcranial direct stimulation on explicit sequence learning in older adults: a sham-controlled, double-blinded study Melissa Kirkovski, Deakin University A TMS-EEG investigation of sex differences in adults with high-functioning autism spectrum disorder Mitchell Goldsworthy, University of Adelaide Reduced neuroplasticity in the ageing dorsolateral prefrontal cortex: a possible early marker of memory decline	Paul Sowman

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	Dr Nigel Rogasch, Monash University				
	Combining transcranial magnetic stimulati				
	progress and promise.				
13.00-14.00	Lunch an				
14.00-15.00		persistant pain using non invasive brain techniques	Julia Pitcher		
	Paul Hodges, University of Queensland				
	Using non-invasive brain stimulation to un	derstand sensorimotor plasticity in pain			
	Siobhan Schabrun, Western Sydney Univer				
	Using non-invasive brain stimulation to tre				
	Bernadette Fitzgibbon, Monash University				
	Factors affecting non-invasive brain stimul				
15.00 - 15.30	Data Blitz Session 1 (5 min presentations)	Julia Pitcher			
	Karyn Richardson, Monash University				
	Assessing cortical reactivity in the DLPFC: o				
	Thusharika Dissanayaka, Monash University				
	Blinding integrity and placebo effects of sham transcranial electrical stimulation on				
	corticospinal excitability: A systematic revi				
	Stevan Nikolin, University of NSW				
	Effects on verbal learning and memory usin				
	current stimulation (HD-tDCS)				
	Natalia Albein-Urios, Deakin University				
	Exploring the role of dorsomedial and vent				
	flexibility using high-definition transcrania				
	Rebecca Segrave, Monash University				
	The influence of endogenous oestrogen on				
	dorsolateral prefrontal cortex.				
15.30 – 16.00	Afterno	oon tea			
16.00 – 17.00	Debate: rTMS is better than tDCS in	treating neuropsychiatric disorders	Paul Fitzgerald		
	Affirmative (rTMS) Team	Negative (tDCS) Team			
	Rocco Cavaleri, Western Sydney University	Bernadette Fitzgibbon, Monash Uni			
	Mitchell Goldsworthy, Uni of Adelaide	Alana McCambridge, UTS			
	Manreena Kaur, Monash University	Stevan Nikolin , UNSW			
	Alex Tang, University of WA	Jordan Wehrman.Macquarie University,			
17.00- 18.00	Discussion: Australasian Br	ain Stimulation Association			
19 20	Dinner				
18.30 -	Dilliler				

Friday 29 th July		Chair
9.00-10.00	Invited Symposium: Electrodoping? Stimulating debate about cognitive enhancement	Peter Enticott
	Kate Hoy, Monash University The State of the Science in 'Electrodoping': hype vs data	
	Cynthia Forlini, The University Of Sydney The ethical and social implications of 'electrodoping'	
	Adrian Carter, Monash University Researchers' perspectives on the non-therapeutic use of transcranial direct current stimulation: An international survey	
	Anne-Maree Farrell, La Trobe University Regulating the use of non-therapeutic uses of non-invasive brain stimulation devices	
10.00-10.30	Techniques: TMS - fMRI Luca Cocchi, QIMR Berghofer Medical Research Institute. Combining TMS, fMRI and computational modelling	Peter Enticott
10.30-11.00	Morning Tea	
11.00 – 12.30	Invited Symposium: TMS biomarkers in neurological disease	Steve Vucic and
	Dr Marcus Meinzer, University of Queensland Stimulating language recovery after stroke	Michael Ridding
	Parvathi Menon, Westmead Hospital and University of Sydney Sensitivity and specificity of threshold tracking TMS in the diagnosis of ALS	
	Matthew Kiernan, Royal Prince Alfred Hospital & University of Sydney Pathophysiological insights into ALS using transcranial magnetic stimulation	
	William Huynh, Prince of Wales Hospital; University of Sydney; University of NSW Neurophysiology of Cortical Plasticity in Stroke	
	Con Yiannikas, University of Sydney and Royal North Shore Hospital Transcranial magnetic stimulation techniques in the diagnosis and management of Multiple Sclerosis	
	Winston Byblow, The University of Auckland Using biomarkers to predict recovery potential of upper limb function after stroke	
12.30 – 13.00	Data Blitz Session 2 (5 min presentations) Andrew Martin, University of Queensland. Impact of high-definition transcranial direct current stimulation over the dorsomedial prefrontal cortex on social cognition	Siobhan Schabrun
	Hakuei Fujiyama, Murdoch University Application of cathodal tDCS to primary motor cortex enhances the effect of anodal tDCS on skill acquisition in older adults	
	Mana Biabanimoghadam, Monash University The effects of tDCS on motor learning: characteristics of the study designs and the difficulties for interpreting published findings	
	Anne-Maree Vallence, Murdoch University Long interval intracortical inhibition is asymmetrical in young but not older adults.	
	Melanie Emonson, Monash University Brain Stimulation, Aging and Cognition: Neural plasticity and cognitive enhancement in the young, old and MCI brain	

Friday 29 th July		Chair	
13.00-14.00	Lunch and posters		
14.00-14.30	Top Ranked Student Presentations Sung Wook, Monash University. Intensity-dependent effect of intermittent theta burst stimulation in prefrontal cortex: A TMS-EEG study Alana McCambridge, University of Technology Sydney Revisiting the interhemispheric imbalance model of chronic stroke: Can contralesional anodal tDCS be used to improve upper limb function?	Kate Hoy	
14.30 – 15.30	Free Presentations Session 2 (15 min presentations) John Cirillo, University of Auckland. Threshold tracking to assess primary motor cortex intracortical inhibition Brenton Hordacre, University of Adelaide Variability of motor evoked potentials is associated with neuroplastic response following continuous theta burst stimulation Alex Tang, University of Western Australia Intermittent Theta Burst Stimulation Induces Neural Plasticity at The Single Cell Level Peter Enticott, Deakin University An expanded, open-label trial of deep rTMS in autism spectrum disorder: Clinical, neurocognitive, and neurobiological effects	Shapour Jaberzadeh	
15.30-16.00	Afternoon Tea		
16.00 – 17.00	Ashleigh Smith, University of South Australia Physical activity modifies the motor-cortical input and output characteristics of the lower extremities in young and old adults Ronan Mooney, University of Auckland The effect of acute aerobic exercise on primary motor cortex function James Coxon, Monash University High-intensity interval exercise promotes motor cortex disinhibition and early motor skill consolidation Michelle McDonnell, University of South Australia The effect of aerobic exercise on neuroplasticity within the motor cortex following stroke Joshua Hendrikse, Monash University Interaction between physical fitness and brain network plasticity induced by rTMS	Winston Byblow	
17.00- 15.30	Close	Paul Fitzgerald	