



Provisional Program

DAY 1: MONDAY 26 NOVEMBER 2018	
Session 1:	MUSCLE - 9.00am-10.30am
Chairpersons: SIMON GANDEVIA and KAREN SØGAARD	TONY BLAZEVICH Training-induced changes in muscles
	JAMES WAKELING Prediction of performance from muscle models
	BART BOLSTERLEE Regional hypertrophy in the human quadriceps following progressive resistance training
	TREVOR ALLEN What can isometric contractions tell us about muscle injury and rehabilitation?
	JOANNA DIONG Involuntary muscle activity reduces passive range of motion at known torque
Morning tea	10:45-11:15am
Session 2:	RESPIRATION - 11:15am-12.30pm
Chairpersons: JANE BUTLER and (DANNY ECKERT or LYNNE BILSTON – to be confirmed)	BILL SHEEL The respiratory musculature: impairments and limitations in health and disease
	ANNA HUDSON Age-related adaptations in the neural control of the human diaphragm muscle
	DAVID NGUYEN Neural drive to the diaphragm in cervical spinal cord injury
	HANNA HENSON Sleep apnoea in people with multiple sclerosis
	TIM CARROLL Transient, broad field, visual input strongly modulates reactive saccade latency
Lunch	12:45-1:30pm
Session 3:	POSTERS 1:30-3:00pm <i>See separate poster list</i>
Session 4:	BALANCE - 3.30pm-5:00pm
Chairpersons: STEPHEN LORD and DAINA STURNIEKS	BRIAN DAY Am I the right way up? Disturbances of spatial orientation in variants of Alzheimer's disease
	ELEFThERIA GIANNOULI A novel group-based stepping exercise program to improve fall risk factors in older adults: first results of a pilot study
	MIRJAM PIJNAPPELS Adaptive, reactive and daily life gait in older populations
	MORAG TAYLOR The relationship between white matter hyperintensity clusters (size and location) and prospective falls in older adults across the cognitive spectrum
End of Day 1	5:00pm

DAY 2: TUESDAY 27 NOVEMBER 2018

Session 1:	CONTRACTURE & MORE - 9.00am-10.45am
Chairpersons: ROBERT HERBERT and GLEN LICHTWARK	RICK LIEBER Mechanisms of contracture
	AMY ADKINS Early Evidence for a decrease in biceps optimal fascicle length based on in vivo muscle architecture in Chronic Hemiparetic stroke
	ZEV RYMER Changes in muscle architecture after hemispheric stroke can adversely affect efficiency of muscle contraction in pennate muscles
	TAYLOR DICK A speed-adaptive myoelectric ankle exoskeleton to improve post-stroke walking performance
	PETER MALLIARAS People with Achilles tendinopathy display greater force fluctuations than controls at low force levels
	MATTHEW BRODIE A finite element method for integrated design and testing of 3D printed ankle and foot orthoses for children with cerebral palsy and motor impairment
Morning tea	10:45-11:15am
Session 2:	BRAIN STIMULATION & STROKE - 11:15am-12.30pm
Chairpersons: JANET TAYLOR and IRENE DI GIULIO	JOHN ROTHWELL Brain stimulation and treatment of motor impairments
	ANN-MAREE VALLENCE Characterizing age-related changes in supplementary motor area-primary motor cortex connectivity.
	IRENE DI GIULIO Effect of STN-DBS frequency on postural performance in Parkinson's disease
	CJ HECKMAN Distortions in the synaptic organization of motor commands to proximal and distal muscles following hemiparetic stroke
	JULIUS DEWALD Increased dependence on contralesional cortico-reticulospinal pathways a form of maladaptive plasticity post hemiparetic stroke?
Lunch	12:45-end of day
	Sightseeing and enjoying Sydney followed by conference dinner.

DAY 3: WEDNESDAY 28 NOVEMBER 2018

Session 1:	MOTOR CONTROL - 9.00am-10.30am
Chairpersons: MARTIN HÉROUX and GRAHAM KERR	RANDY FLANAGAN Coming to grips with sensorimotor control
	LEAH BENT Stochastic Resonance can enhance cutaneous reflex responses in the lower limb
	JAYNE GARLAND Do reactions to balance perturbations improve with Fast muscle Activation and Stepping Training (FAST) in sub-acute stroke?
	SEAN DUKELOW Using robots and other techniques to guide stroke rehabilitation
Morning tea	10:30-11:00am
Session 2:	STANDING AND FALLS - 11:00am-12.30pm
Chairpersons: KIM DELBAERE and MIRJAM PIJNAPPELS	IAN HARRIS Evidence-based surgery
	JOANNE KUA The effects of a specialized treadmill system on gait speed and gait parameters for older adults with high falls risk
	KIM VAN SCHOOTEN The effect of central processing and muscle torque development speed on balance recovery during standing
	KATE CARROLL Footsteps, falls and functional ambulation in children with neuromuscular disease
	GRAHAM KERR Objective assessment of upper limb tremor distinguishes Parkinson's fallers and non-fallers and is predictive of future falls
Lunch	12:30-1:30pm
Session 3:	YOUNG INVESTIGATORS - 1:30-3:00pm
Chairpersons: JOHN ROTHWELL and JAYNE GARLAND	KEVIN GILMORE The effects of demyelination in Chronic Inflammatory Demyelinating Polyneuropathy on neuromuscular properties, muscle quantity & quality.
	HARRISON FINN Firing of fatigue-sensitive small-diameter afferents of the calf muscles impairs maximal contractions of the knee extensor muscles
	SHARI O'BRIEN Visuomotor ankle force training in individuals with spastic cerebral palsy compared to their typically developed peers.
	ZOE DJAJADIKARTA Ankle proprioception in people with Multiple Sclerosis
	LYNDON SMITH Impaired sensorimotor control of the hand in congenital absence of functional muscle spindles
	PAULO PELICIONI Cognitive contributions to the control of balance during stepping in young & older adults - a fNIRS study.
Afternoon Tea	2:42pm – 3:25pm

DAY 3: WEDNESDAY 28 NOVEMBER 2018 (Cont.)

Session 4:	PAIN & FATIGUE - 3.25pm-5:00pm
Chairpersons: ANDREW CRESSWELL and SIOBHAN SCHABRUN	KAREN SØGAARD Muscle pain, fatigue and performance in motor impairments
	JANET TAYLOR Muscle fatigue and training: roles for the spinal cord (draft title)
	CHRIS MCNEIL Peripheral fatigue in young and old females and males
	SIOBHAN SCHABRUN Motor function and motor cortical reorganization in the transition to sustained pain
	PAUL HODGES Physical activity reduces dysregulation of the inflammatory mediators in the multifidus muscle after spontaneous intervertebral disc degeneration in SPARC-null mice
End of day 3	5:00pm
CONFERENCE CONCLUDES	