

Therapeutic Intermittent Hypoxia Virtual Workshop

Friday, January 7, 2022

SESSION I (Chair: Gillian Muir)

3:00-3:10 PM	WELCOME (Gordon Mitchell)
3:10-3:25 PM	Sex, sex hormones and phrenic LTF (Brendan Dougherty)
3:25-3:40 PM	Ampakines amplify phrenic LTF (Prajwal Thakre & Sabhya Rana)
3:40-3:55 PM	Pattern of hypoxia, time of day, inflammation and age all matter—is it all about adenosine? (Alex Marciante & Mia Kelly)
3:55-4:10 PM	Therapeutic intermittent hypercapnia? (Michael Lane & Margo Randelman)
4:10-4:50 PM	DISCUSSION (discussion leaders: Randy Trumbower & David Fuller) <ul style="list-style-type: none"> • What is the optimal tAIH protocol? (hypoxemia, pattern, duration) • Best combinatorials? Drug and other. • Open discussion
4:50-5:00 PM	Break

SESSION II (Chair: David Fuller)

5:00-5:15 PM	The Acute interERmittent hypOxia-SCI (AERO-SCI) Clinical Trial (Nicole Sheers, David Berlowitz & Jane Butler)
5:15-5:30 PM	Human biomarkers for plasticity (Jay Nair & Joe Welch)
5:30-5:45 PM	Early life inflammation and phrenic LTF in adults (Adrienne Huxtable)
5:45-6:00 PM	fMRI changes after tAIH (Molly Bright)
6:00-6:15 PM	AIH and cardiovascular function after SCI (Chris West)
6:15-7:00 PM	DISCUSSION (discussion leaders: Milap Sandhu & Barbara Smith) <ul style="list-style-type: none"> • How do we identify individuals unlikely to respond to tAIH? • What can we do about them? Can we personalize the treatment protocol? • Open discussion

Friday, January 14, 2022

SESSION III (Chair: Monica Perez)

3:00-3:10 PM	INTRODUCTION (Gordon Mitchell); Data Sharing Discussion (Linda Jones & Lyandysha Zholudeva)
3:10-3:25 PM	Motor unit discharge rates following acute intermittent hypoxia (Greg Pearcey)
3:25-3:40 PM	AIH in rodent models of ALS (Nicole Nichols)
3:40-3:55 PM	Ventilatory LTF in humans after hypercapnic hypoxia (Glen Foster)
3:55-4:10 PM	Transcutaneous stimulation, walking practice and tAIH in people with SCI (Kelly McKenzie & Arun Jayaraman)
4:10-4:50 PM	DISCUSSION (discussion leaders: David Berlowitz & Jason Mateika) <ul style="list-style-type: none"> • Update ongoing clinical trials

	<ul style="list-style-type: none"> • What would a “dream” Phase III clinical trial look like, and how far are we from that reality? • Open discussion
4:50-5:00 PM	Break
SESSION IV (Chair: Zev Rymer)	
5:00-5:15 PM	tAIH and cognitive function in the elderly (Emanuel Boutzoukas & Adam Woods)
5:15-5:30 PM	Effect of Acute Intermittent Hypoxia on Corticospinal Responses in Upper and Lower Limb Muscles (Bing Chen & Monica Perez)
5:30-5:45 PM	tAIH and human ALS (Barbara Smith)
5:45-6:00 PM	Caffeine pretreatment for tAIH with chronic SCI (Randy Trumbower)
6:00-7:00 PM	<p>DISCUSSION (discussion leaders: Gordon Mitchell & Emily Fox)</p> <ul style="list-style-type: none"> • What I heard: Progress and what is left to do (after the Road Map) • tAIH Device Design: What is needed? Barriers? • Organizing work groups