

Monday, September 16th, 2024

Young Investigator Workshop		14:00-15-30
Translational research: from human to animal model ... and back		
14:00-14:30	Arterial endothelium and diving from cell to divers F. Guerrero, PhD	
14:30-15:00	From free divers to patient bed rest P. Lafère, MD-PhD	
15:00-15:30	Regulation and animal welfare in experiments using animals J.C. Desfontis, PhD	
Clinical Workshop		15:30-17:00
Meet the expert – Physical Fitness to dive		
15:30-17:00	Tricky Cases Analysis B. Lodde, MD-PhD	

Tuesday, September 17th, 2024

Gathering & Registration		08:00-09:00
Opening Ceremony		09:00-09:30
Major Challenge for the 21 st century ocean P. Tréguer, PhD		09:30-10:30
Coffee Break		10:30-11:00
Session 1: HBOT & Infection		11:00-12:15
Chair: O. Hyldegaard MD-PhD, M. Hajek MD-PhD		
11:00-11:15	Hyperbaric Oxygen Therapy (HBOT) and Infections: A Systematic Review E. Moccia	
11:15-11:30	HBOT as adjuvant therapy for treatment of periprosthetic joint infection (PJI) N. Szolnoki	
11:30-11:45	Efficacy and safety of hyperbaric oxygen therapy to treat long-COVID: A living systematic review S. Boet	
11:45-12:00	Effect of high-pressure oxygen therapy on symptoms and cognitive capacities in Long-COVID patients: a placebo-controlled, prospective, double-blind trial. P. Germonpré	
12:00-12:15	Open discussion	
Poster session & Lunch Break		
The "Under the Pole" Program G. Bardout		14:00-14:45
Session 2: CCR Diving		14:45-16:00
Chair: D.M. Fothergill PhD, S.J. Mitchell MD-PhD		
14:45-15:00	Dysbaric osteonecrosis in recreational deep CCR divers: a radiological survey P. Germonpré	
15:00-15:15	Do the different helium-based breathing mixtures properties impact physiological responses after a single deep closed-circuit rebreather dive? E. Gouin	
15:15-15:30	Safely Returning Divers to 100% Oxygen Diving after Recurrent Central Nervous System Oxygen Toxicity – a Novel Protocol Z. Wong	
15:30-15:45	Diving fatality caused by homemade modifications to open-circuit technical diving equipment: a case report V. Rybárová	
15:45-16:00	Open discussion	
Coffee Break		16:00-16:30

Session 3: Professional Diving		16:30-17:45
Chair: <i>S. Marroni MD-PhD, A. Raisanen-Sokolowski MD-PhD</i>		
16:30-16:45	New staged decompression procedure by Oxygen Enriched Air (OEA), for air diluent dives between 30-50 meters (98-164 feet), planned for firefighter divers - Italian Ministry of the Interior. P. Longobardi	
16:45-17:00	Use of Management of Change for the validation of decompression tables J.P. Imbert	
17:00-17:15	Does professional diving affect lung function? A. Druelle	
17:15-17:30	Diving Practices in Technical Divers' Community and Behavior towards Self-reported Unusual Symptoms. E. Gouin	
17:30-17:45	Open discussion	

Wednesday, September 18th, 2024

ONR Grant: How to Apply?		08:30-09:15
Chair: <i>S. Chapman, PhD</i>		
Session 4: VGE & Diving		09:15-10:30
Chair: <i>F. Guerrero PhD, M. Hagberg MD-PhD</i>		
09:15-09:30	Agreement of precordial and subclavian Doppler grades in a large dive data set S.L. Blogg	
09:30-09:45	First-in-human imaging during decompression in a hyperbaric chamber with a research programmable ultrasound system J. Currens	
09:45-10:00	Inter- and intra-diver VGE variability are not impacted by minor profile deviations in field dives J. Currens	
10:00-10:15	A practical guide to using our automated Doppler and echocardiography venous gas emboli grading software V. Papadopoulou	
10:15-10:30	Open discussion	
Coffee Break		10:30-11:00
Session 5: DCS Management		11:00-12:15
Chair: <i>J. Kot MD-PhD, P. Longobardi MD-PhD</i>		
11:00-11:15	Decompression sickness (DCS) in Finland 2015-2024 R. Takala	
11:15-11:30	Oxygen Treatment and Retrieval Pathways of Divers with Diving-Related Illnesses in North Queensland: A 15-Year Retrospective Review D.F. Blake	
11:30-11:45	Drowning and diving accidents: predictive factors for survival and the value of forensic autopsy A. Gries	
11:45-12:00	The Symptoms & Mechanisms of Recovery in Scuba Divers with Inner Ear Decompression Sickness R. Stokes	
12:00-12:15	Open discussion	
Poster session & Lunch Break		

SCUBA Diving: A Healthy Sport? M. Trousselard, MD-PhD		14:00-14:45
Session 6: HBOT Fundamental Research Chair: <i>M. Théron PhD, J. Regnard PhD</i>		14:45-16:00
14:45-15:00	Hyperbaric oxygen preconditioning reduces oxidative stress, DNA damage and NF- κ B expression in experimental postischemic acute kidney injury S. Kovacevic	
15:00-15:15	Flow-mediated dilation changes at various oxygen partial pressures S. Theunissen	
15:15-15:30	Effect of targeted normobaric hyperoxemia on PBMC and granulocyte metabolism and ROS production during long-term, resuscitated porcine combined acute subdural hematoma and hemorrhagic shock P. Raedemacher	
15:30-15:45	Eccentric exercise, muscle damage and inflammation in conjunction with high-altitude decompression F. Gottchalk	
15:45-16:00	Open discussion	
Coffee Break		16:00-16:30
Session 7: HBOT Clinical Chair: <i>S. Boet MD-PhD, B. Mirasoglu MD</i>		16:30-17:45
16:30-16:45	Safe transport of Intensive Care patients to a session in a hyperbaric chamber. Identification of risk factors for adverse events. A. Miszewska	
16:45-17:00	Safety of HBOT in non-emergent patients with the history of seizures. R. Katznelson	
17:00-17:15	Gas embolism in the United Kingdom: 20 years' experience P. Bothma	
17:15-17:30	Oxygen Therapy for Veterans Suffering from Combat-associated Post-Traumatic Stress Disorder: A Randomized, Sham-controlled Clinical Trial K. Doeniyas-Barak	
17:30-17:45	Physical enhancement of older adults using hyperbaric oxygen: a randomized controlled trial S. Efrati	
17:45-18:00	Open discussion	

Thursday, September 19th, 2024

Oxygen variation: A stimulus, not "only" a drug C. Balestra, PhD		08:30-09:15
Session 8: Apnea Chair: <i>C. Balestra PhD, R. Pignel MD</i>		09:15-10:30
09:15-09:30	Training load index for freedivers F. Lemaître	
09:30-09:45	Very demanding Apnea- and Closed-Circuit Rebreather-diving training may cause signs of overtraining even in well-trained candidates for Maritime Special Operations Forces (MSOF) A. Koch	
09:45-10:00	Arterial Partial Pressure of Oxygen Variations in Breath-Hold and SCUBA Diving in warm water G. Bosco	
10:00-10:15	Estimation of Probability of Presence of Decompression Bubbles in Breath-Hold Diving M. Egi	
10:15-10:30	Open discussion	
Coffee Break		10:30-11:00

Session 9: Diving Fundamental Research		11:00-12:15
<i>Chair: G. Bosco MD-PhD, F. Tillman PhD</i>		
11:00-11:15	Six-hour static cold dives: lower limb weighing assessment of cooling and rewarming pace. J. Regnard	
11:15-11:30	Developing a LC-MS/MS-based method for quantification of guanine-derived urinary biomarkers for oxidative stress in saturation divers H.J. Lund	
11:30-11:45	A new mechanistic physiological model of gas exchanges: a way to apply the concept of personalized medicine to decompression management M. Théron	
11:45-12:00	Technical challenges in the measurement of inert gas flows during desaturation S. De Ridder	
12:00-12:15	Open discussion	
Poster session & Lunch Break		
Cardiorespiratory effects of chronic hypobaric hypoxia in rat models E. Roux, PhD		14:00-14:45
Session 10: Animal studies		14:45-16:00
<i>Chair: I. Eftedal PhD, V. Papadopoulou PhD</i>		
14:45-15:00	A deeper dive into DCS resistant rats miRnome and transcriptome pathway analysis. E. Dugrenot	
15:00-15:15	Effect of hyperbaric stress on rat leukocytes and platelets according to sex and decompression sickness susceptibility J. Orsat	
15:15-15:30	Gas Bubble Disease model to study the pathophysiology of Decompression Sickness A.S. Velásquez Wallraf	
15:30-15:45	Gas evolution in the hearts, livers and kidneys of turtles presenting with gas embolic pathology based on ultrasonography K. Eltz	
15:45-16:00	Open discussion	
Coffee Break		16:00-16:30
Session 11: Diving Clinical		16:30-17:45
<i>Chair: P. Germonpré MD, P. Lafère MD-PhD</i>		
16:30-16:45	Musculoskeletal decompression sickness is not always benign. How to avoid missing the diagnosis of osteonecrosis in its early stages? J.E. Blatteau	
16:45-17:00	Systematic Review of the Causes of Recurrent Decompression Illness after Patent Foramen Ovale (PFO) Closure W. Chow	
17:00-17:15	The DOLA score revisited - Risk assessment of decompression after omitted decompression J. Desola	
17:15-17:30	Dive Risk Factors, Gas Bubble Formation, and Decompression Illness in Recreational SCUBA Diving: Analysis of DAN Europe DSL Data Base A. Marroni	
17:30-17:45	Open discussion	

Friday, September 20th, 2024

Session 12: Guidelines		09:30-10:30
<i>Chair: J.E. Blatteau MD-PhD, B. Lodde MD-PhD</i>		
09:30-09:45	Current Cardiological screening recommendations for divers <i>E. Papoutsidakis</i>	
09:45-10:00	A comparison of guidelines published for recreational diving by individuals with diabetes <i>N. W. Pollock</i>	
10:00-10:15	Resumption of Diving after Immersion Pulmonary Edema: Towards Consensus and Validation of Re-Exposure Tests for Recurrence Risk Assessment <i>O. Castagna</i>	
10:15-10:30	Open discussion	
Coffee Break		10:30-11:00
EUBS General Assembly & Closing Ceremony		11:00-12:15