

**Assoc. Prof Priv Doz. Nandu Goswami, MD, PhD.**, is a cardiovascular physiologist with special interests in cardiovascular regulation, autonomic function, cerebral blood flow, orthostatic intolerance and aging. He is the head of the research unit “ *Gravitational Physiology, Aging and Medicine*” at the Medical University of Graz, Austria. Cardio-postural interactions, which contribute to falls and orthostatic intolerance during postural changes, are extensively studied in his laboratory (including continuous assessment of hemodynamic parameters, skeletal muscle activity in the calf, blood flow in the lower limbs and how all these aspects are correlated to cerebral blood flow).

As orthostatic intolerance is a clinical problem as well as a major problem in spaceflight, Dr Goswami combines clinical research related to syncope, autonomic function and falls with spaceflight research and examines how exercise or physical activity can improve orthostatic intolerance, a common problem in spaceflight and aging.. Dr Goswami is also the co-ordinator of the consortium “SYNCOFALLS”, a consortium of 18 EU and non-EU partners. This consortium is an active partner in the EIP-AHA (European Innovative partnership for Active Healthy aging) action group 2 (prevention of falls). Dr Goswami is PI and co-PI of European Space Agency (ESA) projects as well as clinical projects.

Dr Goswami has also received extensive pedagogical and didactic training, including aspects related to the development of student-focused curriculum, during his Master of Medical Science (Major in Medical Education) studies, which he completed from the prestigious Karolinska Institutet, Sweden.

#### 10 MOST IMPORTANT SCIENTIFIC PUBLICATIONS

\* Denotes “corresponding author”

Cvirn G, Waha JE, Ledinski G, Schlagenhaut A, Leschnik B, Koestenberger M, Tafeit E, Hinghofer-Szalkay H, **Goswami N\***. Bed rest does not induce hypercoagulability. *Eur J Clin Invest*. 2015; 45(1):63-69.

**Goswami N\***, Evans J, Schneider S, von der Wiesche M, Mulder E, Rössler A, Hinghofer-Szalkay H, Blaber AP. Effects of individualized centrifugation training on orthostatic tolerance in men and women. *PLoS One*. 2015; 10(5): e0125780-e0125780.

O'Shea D, Lackner HK, Rössler A, Green DA, Gauger P, Mulder E, Tamma G, Hinghofer-Szalkay H, Valenti G, **Goswami N\***. Influence of bed rest on plasma galanin and adrenomedullin at presyncope. *Eur J Clin Invest*. 2015; 45(7):679-685

Tamma G, **Goswami N\***, Reichmuth J, De Santo NG, Valenti G. Aquaporins, vasopressin, and aging: current perspective *Endocrinology* 2015; 156(3):777-788.

Waha JE, **Goswami N\***, Schlagenhaut A, Leschnik B, Koestenberger M, Reibnegger G, Roller RE, Hinghofer-Szalkay H, Cvirn G. Effects of exercise and nutrition on the coagulation system during bedrest immobilization. *Medicine* (Baltimore). 2015 Sep;94(38):e1555.

**Goswami N**, Kavcic V, Marusic U, Simunic B, Rossler A, Hinghofer-Szalkay H, Pisot R. Effect of computerized cognitive training with virtual spatial navigation task during bed rest immobilization and recovery on vascular function: A pilot study. *Clin Intervention Aging* 2015; 10:453-459.

**Goswami N\***, Gorur P, Pils U, Anyaehie B, Green DA, Bondarenko AI, Roessler A, Hinghofer-Szalkay, HG Effect of orthostasis on endothelial function: a gender comparative study. *PLoS One*. 2013; 8(8):e71655-e71655

Blaber AP, **Goswami N**, Bondar RL, Kassam MS. Impairment of cerebral blood flow regulation in astronauts with post-flight orthostatic intolerance. *Stroke* 2011, 42 (7), 1844 - 1850.

Roessler A, **Goswami N\***, Haditsch B, Hinghofer-Szalkay H. Modulation of plasma adrenomedullin by epinephrine infusion during head up tilt. *Eur J Appl Physiol*. 2011; 111(3): 531-537.

Hinghofer-Szalkay H, **Goswami N**, Roessler A, Grasser E, Schneditz D. Reactive hyperemia in the human liver. *Am J Physiol: Gastrointestinal Liver Physiol* 2008; 295: G332-G337