

PERSONAL INFORMATION



Gerardo Bosco MD PhD

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Sex Male | Date of birth 28/06/1971 | Nationality Italian

Professional Address: Dept. of Biomedical Sciences, Laboratory of Exercise Physiology and Nutrition, Via Marzolo 3, 35131, Padova
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EDUCATION AND TRAINING

Doctor of Medicine, MD

University of Chieti-Pescara (Italy)

PhD in Muscle Pathophysiology

University of Chieti-Pescara (Italy) and SUNY Syracuse (United States)

Residency:

-Diving and Hyperbaric Medicine (3 years)

-Nutrition Sciences (clinical nutrition/Internal Medicine 4 years)

University Hospital G d'Annunzio Chieti-Pescara (Italy)

ACADEMIC POSITION

2011–2017	Assistant professor MEDF-01 (Sport physiology) Medical school, University of Padua (Italy)
2014–Present	International Board member Duke Dive Medicine, Duke University Hospital, Durham NC (United States)
2014/15–Present	Director -Master II level in Diving and Hyperbaric Medicine -High Education Course in Technical and Health Management/Hyperbaric Chamber, DSB-University of Padova (Italy)
2017–Present	Associate Professor 06/N2; M-EDF/01 DSB, University of Padova (Italy)
2016–2018	Vice President UHMS Undersea and Hyperbaric Medical Society (United States)
2019–2024	Vice Dean Exercise and Sport Sciences School, University of Padova (Italy)
2019–2022	Member at large/Board of Directors EUBS (European Underwater Baromedical Society)
2020–Present	National academic qualification as Full Professor 06/N2-MEDF/01
2021–2022	President SIMSI (Società Italiana di Medicina Subacquea ed Iperbarica)
2023–Present	Fellow of Undersea and Hyperbaric Medicine UHMS Undersea and Hyperbaric Medical Society (United States)

PROJECTS

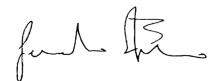
- 2018–2020 Project Pg1: Human Arterial Blood Gas analysis in open water
In collaboration with Duke University and Tampa General Hospital (United States)
- 2020–2022 Project N00014-20-1-2579: Breath-Hold Diving: Mechanisms of Hypoxemia and Decompression Stress
PI G Bosco, University of Padua. Office of Naval Research (ONR) of the US Navy (USA).
- 2021–2023 Project N00014-21-1-2303: Counting the Costs of Diving (CoCoD): Evaluating the balance between performance and the physiological costs in diving.
PI C McKnight, University of St. Andrews. Office of Naval Research (ONR) of the US Navy (USA).
- 2023–2025 Project N00014-23-1-2757: Co.De.1 Compression and Decompression Stress in Diving: How are gases differentially managed in the brains oh BHD and SCUBA?
PI G Bosco, University of Padua. Office of Naval Research (ONR) of the US Navy (USA).

SELECTED PUBLICATIONS

1. Bosco G, Ionadi A, Panico S, Faralli F, Gagliardi R, Data PG, Mortola JP (2003) Effects of Hypoxia on the Circadian Patterns in Men. *High Altitude Medicine & Biology*, 4(3):305-318.
2. Bosco G, Ionadi A, Data PG, Mortola JP (2004) Voluntary breath-holding in the morning and in the evening. *Clin Sci (Lond)*. Apr;106(4):347-52.
3. Bosco G, Yang Zj, Di Tano G, Camporesi EM, Faralli F, Savini F, Landolfi A, Doria C, Fanò G. (2010) Effect of in-water versus normobaric oxygen pre-breathing on decompression-induced bubble formation and platelet activation. *J Appl Physiol*. May;108(5):1077-83.
4. Bosco, G., Rizzato, A., Quartesan, S., Camporesi, E., Mangar, D., Paganini, M., ... & Paoli, A. (2018). Effects of the Ketogenic diet in overweight divers breathing Enriched Air Nitrox. *Scientific reports*, 8(1), 2655.
5. G. Bosco, M. Paganini, A. Rizzato, L. Martani, G. Garetto, J. Lion, E. M. Camporesi, R. E. Moon. Arterial blood gases in divers at surface after prolonged breath-hold. *Eur J Appl Physiol*. 2020 Jan; pp. 1-8.
6. G. Bosco, T. Giacon, N. Paolocci, A. Vezzoli, C. Della Noce, M. Paganini, J. Agrimi, G. Garetto, D. Cialoni, N. D'Alessandro, E. Camporesi, S. Mrakic-Sposta. Dopamine/BDNF loss underscores narcosis cognitive impairment in divers: a proof of concept in a dry condition. *Eur J Appl Physiol*. 2023 Jan;123(1):143-158.
7. Paganini M, Moon RE, Giacon TA, Cialoni D, Martani L, Zucchi L, Garetto G, Talamonti E, Camporesi EM, Bosco G. Relative Hypoxemia at Depth During Breath-Hold Diving Investigated Through Arterial Blood Gas Analysis and Lung Ultrasound. *J Appl Physiol* (1985). 2023 Aug 31; Oct 1;135(4):863-871.
8. Vezzoli A, Mrakic-Sposta S, Brizzolari A, Balestra C, Camporesi EM, Bosco G. Oxy-Inflammation in Humans during Underwater Activities. *Int J Mol Sci*. 2024 Mar 6;25(5):3060.

Padova, 09-10-2024

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Associate Professor
Director: Master II level in Diving and Hyperbaric Medicine
Course in Technical and health management in the hyperbaric chamber
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