

PERSONAL INFORMATION



Gerardo Bosco MD PhD

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Sex Male | Date of birth 26/06/1971 | Nationality Italian

PERSONAL STATEMENT

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

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CF: BSCGRD71H28A783Y

CS: Married and father of Adriano, Vittoria and Laura

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)

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| 1999–2000 | Researcher on contract, Dept. of Biomedical Sciences
School of Medicine - University of Chieti (Italy) |
| 2000–2002 | Research Scientist, Dept. of Anesthesia, Experimental Physiology
SUNY, Syracuse NY (United States) |
| 2002 | Hyperbaric Physician
Centro Iperbarico di Ravenna (Italy) |
| 2003 | Researcher on contract (Circadian pattern and hypoxia in humans)
University of Chieti (Italy) and McGill University Montreal (Canada) |
| 2003–2005 | Medical Director CEMSI
Istituto salernitano di medicina iperbarica (Italy) |
| 2003–2005 | Medical Director Diving emergency
Marina di Camerota-Palinuro ASL SA 3, Salerno (Italy) |
| 2006–2010 | Senior Researcher, Dept. of Physiology
School of Medicine, University of Chieti (Italy) |

Curriculum vitae

- 2010 Scientific consultant for Diving and Hyperbaric Medicine
Adriatic Sub (Oil Company) (Italy)
- 2009–2011 Hyperbaric Physician
Istituto Città di Brescia (Italy)
- Scientific Consultant in Clinical Nutrition and Wound Care
Policlinico di Abano-Padova (Italy)
- 2011–2017 Assistant professor MEDF-01
Medical school, University of Padua (Italy)
- 2014 National academic qualification as Associate Professor 06/N2; M-EDF/01
(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 and
-High Education Course in Technical and Health Management/Hyperbaric Chamber, DSB
University of Padua (Italy)
- 2017–Present Associate Professor 06/N2; M-EDF/01
Department of Biomedical Sciences DSB, University of Padua (Italy)
- 2016–2018 Vice President
UHMS Undersea and Hyperbaric Medical Society (United States)
- 2019–present Vice Dean
Exercise and Sport Sciences School, University of Padua (Italy)
- 2019–present Member GAV
Exercise and Sport Sciences School
- 2019–2022 Member at large/Board of Directors
EUBS (European Underwater Baromedical Society)
- 2020-present National academic qualification as Full Professor 06/N2
- 2021-2022 President
SIMSI (Società Italiana di Medicina Subacquea ed Iperbarica)
- 2023 to date Fellow of Undersea and Hyperbaric Medicine
UHMS Undersea and Hyperbaric Medical Society (United States)
- 2023-present National academic qualification as Full Professor 05/D1
(Italy)

Curriculum vitae

Teaching and training experience

- 1999–2009 Course Title “human physiology” for second year medical students
University of Chieti (Italy)
- 2000–2001 Courses: Committee for the Human Use of animals (CHUA) and IRB training
SUNY, Syracuse (United States)
- 2001 Course: Physiology and locomotion SIF, Rovereto (Italy)
- 2003–Present Visiting professor for HBO
University of Greifswald (Germany)
- 2005–Present Consultant and Visiting professor for Diving Physiology
Dept. of Anesthesia-USF, Tampa (United States)
- 2005–2014 Consultant and Visiting scientist for Hyperbaric Medicine
Dept. of Anesthesia-SUNY, Syracuse (United States)
- 2011–Present Teacher: Human and Environmental Physiology
Medicine and Exercise and Sport Sciences School UNIPD
- 2011–Present Teacher: Diving and hyperbaric physiology, courses (Sport Medicine, Anesthesia)
Residencies school at DIMED-UNIPD
- 2011–Present Teacher: Diving and Hyperbaric Medicine
School of Medicine, Master program, UNIPD
- 2014–Present Chair and scientific director
-Master II level in Diving and Hyperbaric Medicine - DSB UNIPD
- 2014–Present Chair and scientific director
High education course in Technical and Health management, in Hyperbaric Chamber
environment – DSB UNIPD
- 2020-2021 Course Title "Iperbarica"
Master's Degree in Skin and Wound Care Management at DNS-UNIPD
- 2018-Present Course in Aerospace Medicine
Title: Environmental physiology at DNS-UNIPD.
- 2020-Present Faculty Board of the BMCS Doctoral Program at DPG UNIPD.
- 2023-Present Faculty Board of the Doctoral Program in Kinesiology at UNICH
- 2022 - Present Chair and scientific director for education
International meeting:
- 18 – 19/03/2022 “Respira, ripara, rigenera”, Ospedale Niguarda – Milano , Università di Padova, SIMSI
 - 2/12/2022 “International symposium on Environmental physiology and medicine”, Università di Padova

Curriculum vitae

- 3-4/12/2022 “XXV Congresso nazionale della società italiana di medicina subacquea e iperbarica”. SIMSI, Università di Padova
- 7-8/07/2023 “Update on decompression profiles for physicians and divers”, Università di Padova, COMSUBIN MMI

2023 Scientific Consultant for research

- Special corps activities and physiological monitoring- Trustee ComSubIn MMI- DSB UNIPD
- Pre-post flight Virtute: Galattic-01, (Virgin Galattic)-Collaboration Unipd, CNR Milano, Aeronautica Militare Italiana.

Other Experience and Memberships

- 1996 Course on astronaut selection and training
ESA-Köln (Germany)
- 1997–1999 Researcher during iced-lake immersion with Breath-hold and Scuba
Verney lake - Monte Bianco (Italy)
- 1998–1999 Scientific consultant on military training
ComSubin Italy Navy (Italy)
- 2002–2015 Scientific coordinator for Endless Diving Project (36h prolonged scuba diving)
- 2005–2007 Functional evaluation of cross-country skiers
Val Fondillo project (Italy) Funded by BAMS, Ud'A Chieti (Italy)
- 2007-2008 Prevention of decompression disease using preoxygenation
(Youth Project 2007) Funded by BAMS, Ud'A Chieti (Italy)
- 2008 Chronic hypoxia: fertility, metabolism, muscle adaptations and psychophysical performance
Shisha Pangma 2008- Research Project Funded by BAMS, Ud'A Chieti (Italy)
- 2009 Stem cells and hyperbaric oxygen therapy
Founded by ASPATI and Dep. of Anesthesiology (Dir. Prof G Vezzani), Vaio Fidenza Hospital (Italy)
- 2010 Hyperbaric oxygen therapy and antioxidant drugs; Dissemination and apoptotic index association of chemotherapy and hyperbaric oxygen therapy in pancreatic cancer cells; Clinical study: effects of hyperbaric oxygen therapy as preconditioning in pancreatic surgical patients.
Cooperation with Hyperbaric Institute Villafranca (VR) and University of Verona.
- 2011–2015 Drosophila in hypoxic and hyperoxic hyperbaric environment: cellular respiration; The mechanical ventilation of rats exposed to hyperoxia hyperbaric.
Trustee with ATIP hyperbaric medical center and University of Padua
- 2015-2018 Ketosis and pathophysiology: research and clinic.
Cooperation with Mech Lab and founded by Mech Company
- 2014–2019 Bone re-modelling and HBO
Founded by ASPATI and ATiP (Italy)
- 2015–2018 Molecular cross talk between muscle and adipose tissue: effects of diet and exercise in obese individuals, post-doc project

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Founded by University of Padova (Italy) and UFFER foundation (United States)

- 2015–2020 **Underwater 12-lead exercise ECG project**
Founded by “Federazione Medico Sportiva Italiana”, in collaboration with “Y-40 swimming pool” (Italy)
- 2017/2018 **Board Member for the PETROMAKS2 Program**
The Research Council of Norway.
- 2018–2020 **Secretary of the Human Ethical Committee**
Department of Biomedical Sciences, University of Padova (Italy)
- 2018–Present **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. In collaboration with the Office of Naval Research (ONR) of the US Navy and Marine Corps (USA). P.I. Bosco
- 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. In collaboration with the Office of Naval Research (ONR) of the US Navy and Marine Corps Department of Defense (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. In collaboration with the Office of Naval Research (ONR) of the US Navy and Marine Corps Department of Defense (USA).

Scientific societies membership: SISMES, EUBS, SIMSI Italian diving and hyperbaric medical society, IIM Interuniversity institute of myology, SIF Italian Physiological Society, UHMS, International Faculty member-Duke Dive Medicine (US)

Invited speaker in more than 100 National and International meetings.

Editorial Board and Reviewer ad hoc: European journal of applied physiology, Journal of Applied Physiology, Frontiers in physiology, UHMS Journal, IJERPH, Plos One, Critical Care, Anesthesiology, DHMJ, Lung, Aerospace Medicine, Acta Medica Mediterranea, Progetti Ministeriali.

AWARD:

- Premio SIMSI (Capri 2000)
- Premio Atlantide (Bologna 2016)
- Premio Mare Vivo e Comune di Napoli (Napoli 2019)
- Premio Tridente D’Oro, Accademia Internazionale di Scienze e Tecniche Subacquee. (Trieste 2022)
- FELLOW UHMS 2023 (Fellow Award Undersea and Hyperbaric Medical Society, San Diego)

Publications

Book Chapters

1. Data PG, Bosco G. Medicina Subacquea. Enciclopedia Italiana Treccani, Roma. 2000.
2. E. M. Camporesi & G. Bosco. Ventilation, Gas Exchange and Exercise Under Pressure. In *The Physiology and Medicine of Diving*, 5th edn. Ed. P. B. Bennett and D. H. Elliott. London: W. B. Saunders Company Ltd: Best Publishing. 2003.
3. G Bosco, G Di Tano, G Fanò. (2008) Ricerca attuale in fisiologia subacquea. In *Dal Nuoto alla subacquea di A Davini*. Ed.CESI. Roma.
4. G Bosco, V Zanon, EM Camporesi (2008) Immersione e gravidanza. In *Dal Nuoto alla subacquea di A Davini*. Ed. CESI. Roma.
5. G Bosco, EM Camporesi (2009) HBO come prevenzione: animal and human research. In *TimeOut Intensiva*. www.timeoutintensiva.it/focus.
6. Bosco G, Camporesi E. Anesthetics at altitude in *Anesthesia Equipment: Principles and Applications 2nd Edition*-Jan Ehrenwerth, James B Eisenkraft, James M Berry PHILADELPHIA, USA: W.B. SAUNDERS CO-ELSEVIER INC 2013.
7. EM Camporesi, G Bosco. Mechanisms of action in Hyperbaric Oxygen Therapy Indications. Thirteenth Edition UHMS- LK Weaver, BEST PUBLISHING COMPANY 2014.
8. EM Camporesi, G Bosco. Hyperbaric oxygen pretreatment and preconditioning in Hyperbaric Oxygen Therapy Indications. Thirteenth Edition UHMS- LK Weaver, BEST PUBLISHING COMPANY 2014.
9. Paoli A, Bosco G. The Ketogenic Mediterranean Diet in *The Mediterranean Diet: An Evidence- Based Approach*. Edited by Preedy VR, Watson RR. Elsevier 2014. Pages 271-280.
10. Bosco, Gerardo, and Enrico M. Camporesi. "Hyperbaric Oxygen Pretreatment and Preconditioning." *Textbook of Hyperbaric Medicine*. Springer International Publishing, 2017. 541- 544.
11. Faralli, Fabio, Alberto Fiorito, and Gerardo Bosco. "HBO in Military Medicine." *Textbook of Hyperbaric Medicine*. Springer International Publishing, 2017. 567-576.
12. Chapter 2 Physiologic Effects of Hyperbaric Oxygen by Gerardo Bosco, Enrico M. Camporesi. *Hyperbaric Medicine Practice 4th edition*, edited by Harry T. Whelan. Best Publishing Company
13. Chapter 5 Multiplace Hyperbaric Chamber by Giacomo Garetto, Gerardo Bosco. *Hyperbaric Medicine Practice 4th edition*, edited by Harry T. Whelan. Best Publishing Company.
14. Chapter 34 Hyperbaric Oxygen Treatment of Avascular Bone Necrosis of the Femoral Head by Giuliano Vezzani, Gerardo Bosco, Enrico M. Camporesi. *Hyperbaric Medicine Practice 4th edition*, edited by Harry T. Whelan. Best Publishing Company. June 2017: pp 955-974
15. Gerardo Bosco, Alex Rizzato, Giuliano Vezzani, Vincenzo Zanon and Enrico Camporesi. Chapter 2. Therapeutic Mechanisms of Action for Hyperbaric Oxygen on Femoral Head Necrosis. In: *Hyperbaric Oxygen Treatment in Research and Clinical Practice - Mechanisms of Action in Focus*. Intech. 2018: pp 9-24
16. G Bosco, A Rizzato, EM Camporesi, Mechanisms of action in Hyperbaric Oxygen Therapy Indications. Fourteenth Edition UHMS- RE Moon, BEST PUBLISHING COMPANY 2019, Chapter 15, pp. 327-334.
17. EM Camporesi, M Paganini, G Bosco. Oxygen pretreatment and preconditioning in Hyperbaric Oxygen Therapy Indications. Fourteenth Edition UHMS- RE Moon, BEST PUBLISHING COMPANY 2019, Chapter 17, pp. 343-350.
18. M. Paganini, G. Bosco, F. A. G. Perozzo, E. Kohlscheen, R. Sonda, F. Bassetto, G. Garetto, E. M. Camporesi, S. R. Thom. The Role of Hyperbaric Oxygen Treatment for COVID-19: A Review. *Advances in Experimental Medicine and Biology*. Part of

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the Advances in Experimental Medicine and Biology book series. Springer, New York, NY. 2020 July.

19. V. Vittore, G. Bosco, V. Zanon, T. Pietrangelo, E. Camporesi, D. Bondi, M. Pokorski. Pathophysiological Responses to a Record-Breaking Multi-hour Underwater Endurance Performance: A Case Study. *Advances in Experimental Medicine and Biology*. 2021
20. Gerardo Bosco, Giuliano Vezzani, Vincenzo Zanon and Enrico Camporesi. Therapeutic Mechanisms of Action for Hyperbaric Oxygen on Femoral Head Necrosis. Fifteenth Edition UHMS- RE Enoch Huang, BEST PUBLISHING COMPANY 2023.
21. G Bosco, EM Camporesi, Mechanisms of action in Hyperbaric Oxygen Therapy Indications. Fifteenth Edition UHMS- RE Enoch Huang, BEST PUBLISHING COMPANY 2023.
22. EM Camporesi, M Paganini, G Bosco. Oxygen pretreatment and preconditioning in Hyperbaric Oxygen Therapy Indications. Fifteenth Edition UHMS- RE Enoch Huang, BEST PUBLISHING COMPANY 2023.

Refereed Journals

1. Yang ZJ, Bosco G, Montante A, Ou XL and Camporesi EM (2001) Hyperbaric O₂ reduces intestinal ischemia-reperfusion-induced TNF- production and lung neutrophil sequestration. *Eur J Appl Physiol* 85: 96-103.
2. Bosco G, Yang ZJ, Savini F, Nubile G, Data PG, Wang JP, Camporesi EM (2001). Environmental stress on diving-induced platelet activation. *Undersea Hyperb Med*. Fall;28(4):207-11.
3. Yang ZJ, Camporesi C, Yang X, Wang JP, Bosco G, Lok J, Gorji R, Shelper R, Camporesi EM (2002) Hyperbaric oxygenation mitigates focal cerebral injury and reduces striatal dopamine release in a rat model of transient middle cerebral artery occlusion. *Eur J Appl Physiol* 87: 101-107.
4. Wang JP, Yang X, Camporesi C, Yang Zj, Bosco G, Chung C, Camporesi EM. (2002) Effect of propofol on MCAO-induced focal ischemia injury and extracellular dopamine level. *Eur J Pharmacol* 452 (2002) 303-308.
5. Pedoto A, Nandi J, Yang ZJ, Wang J, Bosco G, Oler A, Hakim TS, Camporesi EM (2003) Beneficial effect of hyperbaric oxygen pretreatment on lipopolysaccharide-induced shock in rats. *Clin Exp Pharmacol Physiol*. Jul;30(7):482-8.
6. 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.
7. 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.
8. Zanon V, Garetto G, Bosco G. (2004). Acupuncture-HBO₂ combined therapy in a persistent left hemiface hyperalgesia: a case report. *Undersea Hyperb Med*. Spring; 31(1):183.
9. Landolfi A, Yang Zj, Savini F, Camporesi EM, Faralli F and G Bosco. (2006) Pre-treatment with hyperbaric oxygenation reduces bubble formation and platelet activation. *Sports Sci Health*, 1:122- 128.
10. Yang Z, Nandi J, Wang G, Bosco G, Gregory M, Chung C, Xie Y, Yang X, EM Camporesi. (2006) Hyperbaric Oxygenation ameliorates indomethacin-induced enteropathy in rats by modulating TNF- alpha and IL-1 beta production. *Dig Dis Sci* 34(1-2):70-6.

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11. Bosco G, Zj Yang, J Nandi, Jp Wang, C Chen, E M Camporesi (2007) Effects of hyperbaric oxygen on glucose, lactate, glycerol and antioxidant enzymes in the skeletal muscle of rats during ischemia and reperfusion. *Clin Exp Pharmacol Physiol* 34, 70-76.
12. Bosco G, Zanon V, EM Camporesi (2007) Resistive respiratory muscle training. *Undersea Hyperb Med.* 2007 May-Jun;34(3):145-6.
13. G Bosco, Di Tano G, Zanon V, Fanò G. (2007) Breath holding dive: a point of view. *Sports Sci Health*, 2:47-54.
14. Zj Yang, CD Price, G Bosco, M Tucci, NS El-Badri, D Mangar, E M Camporesi. (2008) The Effect of Isovolemic Hemodilution with Oxycyte®, a Perfluorocarbon Emulsion, on Cerebral Blood Flow in Rats. *PLoS ONE.* Apr 23;3(4):e2010.
15. Verratti V Berardinelli F, Di Giulio C, Bosco G, Cacchio M, Pellicciotta M, Nicolai M, Martinotti S, Tenaglia R. (2008) Evidence that chronic hypoxia causes reversible impairment on male fertility. *Asian J Androl.* Jul;10(4):602-6.
16. Landolfi A, Torchia F, Autore A, Appiani G, Bosco G. (2009) The oxygen paradox. Hypobaric simulated ascent: a case of syncopal occurrence. *Italian Journal of Aerospace Medicine-1* (1) 22- 25.
17. Di Tano G, Petrarca C, Bosco G, Battista P, Yang Zj, Morelli L, Barbacane R and Loffredo B. (2009) Identification and measurements of carbonic anhydrase-II molecule numbers in the rat carotid body. *The Open Respiratory Medicine Journal* 3, 67-72.
18. Pietrangelo T, Mancinelli R, Toniolo L, Cancellara L, Paoli A, Puglielli C, Iodice P, Doria C, Bosco G, D'Amelio L, di Tano G, Fulle S, Saggini R, Fanò G, Reggiani C (2009) Effects of local vibrations on skeletal muscle trophism in elderly people: mechanical, cellular, and molecular events. *Int J Mol Med.* Oct;24(4):503-12.
19. Squecco R, Carraro U, Kern H, Pond A, Adami N, Biral N, Vindigni V, Boncompagni S, Pietrangelo T, Bosco G, Fanò G, Marini M, Abruzzo PM, Germinario E, Danielli-Betto D, Protasi F, Francini F, Zampieri S. (2009) A Sub-population of rat muscle fibers maintains an assessable excitation-contraction coupling mechanism after long-standing denervation, despite lost contractility. *J Neuropathol Exp Neurol*;68(12):1256-68.
20. Yang Zj, Bosco G, Xie Y, Chen Y, Camporesi EM. (2010) Hyperbaric oxygenation alleviates MCAO-induced brain injury and reduces hydroxyl radical formation and glutamate release. *Eur J Appl Physiol.* Feb;108(3):513-22.
21. 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.
22. Camporesi EM, Vezzani G, Bosco G, Mangar D, Bernasek TL. (2010) Hyperbaric Oxygen Therapy in Femoral Head Necrosis. *J Arthroplasty.* Sep;25(6 Suppl):118-23.
23. Bosco G, Verratti V, Fanò G (2010) Performances in extreme environments: effects of hyper/hypobarism and hypogravity on skeletal muscle. *European Journal Translational Myology - Myology Reviews*; 1(3): 83-90.
24. Morabito C, Bosco G, Pilla R, Corona C, Mancinelli R, Yang Z, Camporesi EM, Fanò G, Marigiò MA. (2011) Effect of pre-breathing oxygen at different depth on oxydative status and calcium concentration in lymphocytes of scuba divers. *Acta Physiol (Oxf).* May;202(1):69-78.
25. Straface G, Ercoli A, Selmin A, Bosco G, Scambia G. (2011) Monitoraggio fetale intrapartum. *Riv. It. Ost. Gin. Num.* 31: 349-356.

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26. T Moro, E Thomas, G Bosco. Blood pressure and heart rate response to two resistance training technique of different intensity. *European Journal of Sport Studies* (2011). 10.12863/ejssbx1x2- 2013x2
27. Zanon V, Rossi L, Castellani E, Camporesi EM, Palù G, Bosco G. (2012) Oxybiotest project: microorganisms under pressure. Hyperbaric oxygen (HBO) and simple pressure interaction on selected bacteria. *Med Gas Res*. Sep 11;2(1):24.
28. Rubini A, Bosco G, Parmagnani A, Del Monte D, Catena V. The effects of Erythropoietin on the respiratory function: Measurements of respiratory mechanics in the rat. *Current Respiratory Medicine Reviews*. 2012. 8(2):448-453.
29. Chaparro E, Erasso D, Quiroga C, Bosco G, Parmagnani A, Rubini A, Mangar D, Camporesi E. Repetitive intraperitoneal caspase-3 inhibitor and anesthesia reduces neuronal damage. *J Enzyme Inhib Med Chem*. 2013 Dec;28(6):1324-30.
30. Chaparro RE, Quiroga C, Bosco G, Erasso D, Rubini A, Mangar D, Parmagnani A, Camporesi EM. (2013) Hippocampal cellular loss after brief hypotension. *Springerplus*. Jan 25;2(1):23.
31. Rubini A, El-Mazloum D, Morra F, Bosco G. (2013) The effect of body cooling on respiratory system mechanics and hysteresis in rats. *Respir Physiol Neurobiol*. Jul 1;189(1):52-58.
32. Rubini A, Porzionato A, Zara S, Cataldi A, Garetto G, Bosco G. (2013) The Effect of Acute Exposure to Hyperbaric Oxygen on Respiratory System Mechanics in the Rat. *Lung*. 191(5): 459- 466.
33. Rubini A, Bosco G. (2013) The effect of body temperature on the dynamic respiratory system compliance-breathing frequency relationship in the rat. *J Biol Phys*. Jun;39(3):411-8.
34. Rubini A, Carniel EL, Parmagnani A, Bosco G. Measurement and analysis of the respiratory system pressure-volume curve, obtained by constant and low inflation flow rate in the rat. *Gazzetta Medica Italiana Archivio per le Scienze Mediche*. 2013.172(11): 819-824.
35. Rubini A, Bosco G. Pneumoperitoneum increases the elastic and resistive inspiratory work of breathing in positive-pressure ventilated rats. *Minerva Pneumologica*. 2013. 52(2-39): 129-135.
36. Nasole E, Nicoletti C, Yang ZJ, Girelli A, Rubini A, Giuffreda F, Di Tano A, Camporesi E, Bosco G. (2014). Effects of alpha lipoic acid and its R+ enantiomer supplemented to hyperbaric oxygen therapy on interleukin-6, TNF- α and EGF production in chronic leg wound healing. *J Enzyme Inhib Med Chem*. Apr;29(2):297-302.
37. Rubini A, Bosco G, Catena V, Del Monte D. Measurements of pressure-volume curves by constant low inflation flow in the rat: Effects of body posture. *Minerva Pneumologica* 52(2-3): 123- 128.
38. Paoli A, Bianco A, Grimaldi KA, Lodi A, Bosco G. (2013). Long term successful weight loss with a combination biphasic ketogenic Mediterranean diet and Mediterranean diet maintenance protocol. *Nutrients*. Dec 18;5(12):5205-17.
39. Rubini A, Parmagnani A, Camporesi EM, Bosco G. Effects of immersion and exercise on Spirometric performance in water-polo players. *Gazzetta Medica Italiana Archivio per le Scienze Mediche*. 2013. 172 (12): 917-921.
40. V Zanon, G Bosco, EM Camporesi. Hyperbaric Chamber: Considerations about Panic in Extraordinary Environments. *Wound Care & Hyperbaric Medicine (WCHM)*

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Magazine). 09/2014; 5(3):34.

41. Paoli A, Bianco A, Damiani E, Bosco G. Ketogenic diet in neuromuscular and neurodegenerative diseases. *Biomed Res Int*. 2014; 2014:474296.
42. Bosco G, Paoli A, Camporesi E. Aerobic demand and scuba diving: concerns about medical evaluation. *Diving Hyperb Med*. 2014 Jun;44(2):61-3.
43. Camporesi EM, Bosco G. Hyperbaric oxygen pretreatment and preconditioning. *Undersea Hyperb Med*. 2014 May-Jun;41(3):259-63.
44. Camporesi EM, Bosco G. Mechanisms of action of hyperbaric oxygen therapy. *Undersea Hyperb Med*. 2014 May-Jun;41(3):247-52.
45. Quiroga C, Chaparro RE, Karlinski R, Erasso D, Gordon M, Morgan D, Bosco G, Rubini
46. A, Parmagnani A, Paoli A, Mangar D, Camporesi EM. Effects of repetitive exposure to anesthetics and analgesics in the tg2576 mouse Alzheimer's model. *Neurotox Res*. 2014 Nov;26(4):414-21.
47. Hakim TS, Pedoto A, Nandi J, Bosco G, Rubini A, Mangar D, Paoli A, Camporesi EM. Hypothermia attenuates NO production in anesthetized rats with endotoxemia. *Naunyn Schmiedebergs Arch Pharmacol*. 2014 Jul;387(7):659-65.
48. Bosco G, Casarotto A, Nasole E, Camporesi E, Salvia R, Giovinazzo F, Zanini S, Malleo G, Di Tano A, Rubini A, Zanon V, Mangar D, Bassi C. Preconditioning with hyperbaric oxygen in pancreaticoduodenectomy: a randomized double-blind pilot study. *Anticancer Res*. 2014 Jun;34(6):2899-906.
49. Rubini A, Porzionato A, Sarasin G, Zara S, Macchi V, Camporesi E, Bosco G. Hyperbaric air exposure at 2.5 ATA does not affect respiratory mechanics and lung histology in the rat. *Lung*. 2014 Aug;192(4):609-14.
50. Padulo J, Filingeri D, Chamari K, Migliaccio GM, Calcagno G, Bosco G, Annino G, Tihanyi J, Pizzolato F. Acute effects of whole-body vibration on running gait in marathon runners. *J Sports Sci*. 2014;32(12):1120-6.
51. Chaparro E, Quiroga C, Erasso D, Bosco G, Rubini A, Mangar D, Camporesi E. Isoflurane prevents learning deficiencies caused by brief hypoxia and hypotension in adult Sprague Dawley rats. *J Enzyme Inhib Med Chem*. 2014. 29(6): 895-900.
52. Rubini A, Porzionato A, Salami E, Macchi V, Bosco G. Amiodarone acutely increases respiratory system resistance and the related work of breathing in the rat respiratory system. *Minerva Pneumologica*. 2014. 53(1): 27-34.
53. G Bosco, E De Marzi, P Michieli, H R Omar, E M Camporesi, J Padulo, A Paoli, D Mangar and M Schiavon. 12-lead Holter monitoring in diving and water sports: a preliminary investigation. 2014 *Diving Hyperb Med*. 44 (4): 202-7.
54. A Paoli, T Moro, G Bosco, A Bianco, K A. Grimaldi, E Camporesi and D Mangar. Effects of n-3 Polyunsaturated Fatty Acids (ω -3) Supplementation on Some Cardiovascular Risk Factors with a Ketogenic Mediterranean Diet. 2015. *Mar. Drugs*, 13, 996-1009.
55. Paoli A, Bosco G, Camporesi EM, Mangar D. Ketosis, ketogenic diet and food intake control: a complex relationship. *Front Psychol*. 2015 Feb 2; 6:27.
56. Rubini A, Bosco G, Lodi A, Cenci L, Parmagnani A, Grimaldi K, Yang Z, Paoli A. Effects of Twenty Days of the Ketogenic Diet on Metabolic and Respiratory Parameters

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