

TADEJ DEBEVEC Ph.D.
CURRICULUM VITAE

PERSONAL DETAILS

DATE OF BIRTH: 11/09/1978 (Ljubljana, Slovenia)
MARITAL STATUS: Married (Minca Mramor MD, PhD)
CHILDREN: Three [Inja (2006), Brin (2007), Ronja (2011)]
NATIONALITY: Slovene
ADDRESS: Cesta na Loko 37h, Ljubljana, SI-1000, Slovenia
LANGUAGES: Slovene, English (proficient), German (basic)
ORCID: 0000-0001-7053-3978
CURRENTLY HELD POSITIONS:
Full Professor, Faculty of Sport, Ljubljana, Slovenia
Scientific Councillor, Jozef Stefan Institute, Ljubljana, Slovenia
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UNIVERSITY EDUCATION

Doctor of Philosophy (Environmental & Exercise Physiology (2006-2011))

Jozef Stefan International Postgraduate School, Ljubljana, Slovenia

Thesis: The use of normobaric hypoxia and hyperoxia for the enhancement of sea-level and/or altitude exercise performance.

Supervisor: prof. Igor B. Mekjavić Ph.D.

Bachelor of Sport Science (2001-2006)

Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia

Thesis: The use of heart rate as an indicator of altitude acclimatization.

Supervisor: prof. Blaž Jereb Ph.D.

EMPLOYMENTS

2006–2011: Asistant, Jozef Stefan Institute, Ljubljana, Slovenia
2011–2013: Asistant with a PhD, Jozef Stefan Institute, Ljubljana, Slovenia
2014–2019: Research fellow, Jozef Stefan Institute, Ljubljana, Slovenia
2017–2019: Assistant professor, Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia
2019–2024: Senior research fellow, Jozef Stefan Institute, Ljubljana, Slovenia
2019–2024: Associate professor, Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia
2024– : Scientific councillor, Jozef Stefan Institute, Ljubljana, Slovenia
2024– : Full professor, Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia

SCHOLARSHIPS

2006 – 2011: Young researcher scholarship, ARRS, Performed at the “Jozef Stefan” Institute; Department of Automation, Bio-cybernetics and Robotics. Ljubljana, Slovenia.

POSTDOCTORAL FELLOWSHIPS

- 2013/14 (November – July): Marie Curie IRSES Post doctoral fellow – University of Cape Town, Faculty of Health Sciences Department of Human Biology, UCT/MRC Research Unit for Exercise Science and Sports Medicine, Cape Town, South Africa. Supervisor: prof. Timothy D. Noakes; Collaborator: dr. Elske J. Schabort
- 2013 (February – March): Marie Curie IRSES Post doctoral fellow – University of Cape Town, Faculty of Health Sciences Department of Human Biology, UCT/MRC Research Unit for Exercise Science and Sports Medicine, Cape Town, South Africa. Supervisor: prof. Timothy D. Noakes; Collaborator: dr. Elske J. Schabort

RESEARCH VISITS

- 2025 (February) Faculty of Rehabilitation Sciences, Hasselt University, Diepenbeek, Belgium; Collaborator : prof. Chiel Poffe;
- 2024 (Sept-Oct) ISSUL, Institute of Sport Sciences, Faculty of Biology and Medicine, University of Lausanne, Lausanne, Switzerland; Collaborator : prof. Grégoire P. Millet;
- 2019 Oct – 2020 Jun. School of Life sciences, Faculty of Medicine and Health Sciences, Nottingham University, Nottingham, United Kingdom; Supervisor: prof. Ian A. Macdonald; Collaborator: dr. Elizabeth J. Simpson
- 2018 (March-May): Laboratoire Interuniversitaire de Biologie de la Motricité (LIBM Chambéry), Université Savoie Mont Blanc, Chambéry. France. Collaborator: dr. Thomas Rupp
- 2014 (September): DLR, Institute of Aerospace medicine, Department for space physiology, Cologne, Germany. Supervisor: prof. Jörn Rittweger; Collaborator: dr. Uwe Mittag
- 2013 (July): Advanced Telecommunications Research Institute International (ATR), Department of Brain Robot interface, Computational Neuroscience Labs, Kansai, Osaka, Japan. Supervisor: prof. Jun Morimoto; Collaborators: dr. Jan Babič & dr. Tomoyuki Noda
- 2012 (October): MRC/Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Nottingham Medical School, School of Life Sciences, Queen's Medical Centre, Nottingham, United Kingdom Supervisor: prof. Ian A. Macdonald; Collaborator: dr. Elizabeth J. Simpson
- 2012 (February): ISSUL, Institute of Sport Sciences, Faculty of Biology and Medicine, University of Lausanne, Lausanne, Switzerland Supervisor: prof. Grégoire P. Millet

PROFESSIONAL AFFILIATIONS

- 2021 – 2024 Member of the Society for Redox Biology & Medicine (SfRBM).
- 2013 – 2020 Member of the American Physiological Society (APS).
- 2012 – 2013 Member of the International Society for Posture & Gait research (ISPGR).
- 2010 – 2019 Member of the American College of Sport Medicine (ACSM).
- 2009 – 2010 Member of the International Society for Mountain Medicine (ISMM).
- 2008 – ongoing Member of the European College of Sports Science (ECSS).

RESEARCH PROJECTS

Current:

- 2026-2028 – EU funded - ERASMUS+ Climb United – Ascend Together (National PI)
- 2024-2026– ARRS - Fem-Adapt: Mechanisms underlying hypoxic, heat and cross-tolerance adaptation in women (PI)

Completed:

- 2023-2025 – ARRS - Science for medal: an overview of medical, nutritional and psychological support for the olympic team (PI: Vedran Hadžič)
- 2022-2025 – ARRS Weave - Intermittent exogenous ketosis: a novel strategy to improve hypoxic tolerance and adaptation (National PI – Bilateral research project with prof. Peter Hespel and dr. Chiel Poffe from KU Leuven)
- 2020-2023 – ARRS Weave - PreAlti: Mechanisms of hypoxia (in)tolerance in prematurely born individuals (PI – Bilateral research project with prof. Gregoire Millet from University of Lausanne)
- 2018-2021 – ARRS: X-ADAPT: Cross-adaptation between heat and hypoxia – novel strategy for performance and work-ability enhancement in various environments (PI)
- 2016-2019 – ARRS: *Preterm-Hypo* - Cardiorespiratory responses during hypoxic exercise in prematurity (PI: D. Osredkar)
- 2018 – PKP: Above the tree line: High altitude hut building strategies in Slovenia (PI: Rok Žnidaršič)
- 2016-2018 – KC: Assessment of PPEs (PI: Igor B. Mekjavić)
- 2015-2017 – UCC: *Preterm FTF*: Fitness-to-fly in prematurely born infants (PI: Minca Mramor)
- 2015-2016 – FS: *KidSki* - Effects of hypoxia on kids during simulated skiing (PI)
- 2013-2015 – PECS: *VenHab* – Female planetary habitat simulation (PI: Ola Eiken)
- 2012-2015 – FP7: *PlanHab* – Planetary habitat simulation (PI: Igor B. Mekjavić)
- 2012-2013 – PECS: *LunHab* – 10-day planetary habitat simulation (PI: Ola Eiken)
- 2011-2014 – ARRS L3—4328: Hypoxic inactivity: implications for heart failure, pulmonary insufficiency and obesity (PI: Igor B. Mekjavić)
- 2011-2014 – ARRS L2—4107: Development of a new thermal manikin for evaluation of personal protective equipment and safety in extreme working environments. (PI: Igor B. Mekjavić)
- 2013 – ABR: Effects of high altitude on postural stability in hypoxia (Co-PI)
- 2012 – ABR: Effects of robotic knee exoskeleton on energy expenditure during squatting (Co-PI)
- 2010-2013 – ARRS L3—3654: Zero and reduced gravity simulation: the effect on the cardiovascular and musculoskeletal systems (PI: Igor B. Mekjavić)
- 2009-2012 – ARRS L7—2413: Hypoxic and hyperoxic training (PI: Igor B. Mekjavić)
- 2007 – ARRS L7—9731: Altitude acclimatization (PI: Igor B. Mekjavić)
- 2006-2008 – ARRS M2—0103: Combatant protection systems (PI: Igor B. Mekjavić)

TEACHING AND SUPERVISION

Teaching

- 2023 – ongoing: Advanced Environmental Exercise Physiology, Faculty of Sport, University of Ljubljana
- 2019 – ongoing: Altitude training in sports, Faculty of Sport, University of Ljubljana
- 2019 – ongoing: Athlete in extreme environments, Faculty of Sport, University of Ljubljana
- 2019 – ongoing: Mountain biking, Faculty of Sport, University of Ljubljana
- 2014 – 2020. : Environmental physiology, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska; visiting lecturer
- 2008 – ongoing: Ski Mountaineering, Faculty of Sport, University of Ljubljana
- 2007 – ongoing: Mountaineering, Faculty of Sport, University of Ljubljana
- 2006 – 2017: Undergraduate student lectures on environmental physiology, Jozef Stefan Institute

Supervision

- 2020 – ongoing: Doctoral theses supervision, Faculty of Sport, University of Ljubljana
- 2019 – ongoing: Master's theses supervision, Faculty for health sciences, University of Primorska
- 2012 – ongoing: Master's theses supervision, Faculty of Sport, University of Ljubljana
- 2012 – ongoing: Bachelor theses supervision, Faculty of Sport, University of Ljubljana
- 2009 – ongoing: Bachelor theses consultancy, Faculty of Sport, University of Ljubljana

Other:

- 2009 – ongoing: IFMGA Mountain guides courses, Slovenian Association of Mountain Guides

INVITED SCIENTIFIC TALKS / PRESENTATIONS

- DEBEVEC T.** (2025) Hypoxic training: from chronic exposure to acute training – Using Environmental Stressors to Achieve Peak Performance: From Evidence to Avenues to Explore international conference - Invited lecture – INSEP, Paris.
- DEBEVEC T.** (2024) Heat tolerance and training in elite cycling context – Slovene Cycling Federation, Ljubljana, Slovenia.
- DEBEVEC T.** (2023) From sport science to space and back: Environmental physiology journey – VUB research meeting Invited lecture - Vrije Universiteit Brussel - Human Physiology & Sports Physiotherapy Research Group
- DEBEVEC T.** (2021) Pre-acclimatization strategies for competitions at altitude: Why, how & when, Invited lecture – Webinar series - Optimizing performance for Tokyo 2021 & Paris 2024 - Spanish Paralympic Committee.
- DEBEVEC T.** (2020) Hypoxic (in)tolerance in preterm born children and adults, Invited lecture - Carnegie X Change seminar - Leeds Beckett University; Carnegie School of Sport - Leeds, UK.
- DEBEVEC T.** (2018) Cardiovascular responses in extreme environments, Invited lecture - Summer school - Healthy and Active Lifestyle, EMUNI University - Piran, Slovenia.
- DEBEVEC T.** (2018) Adaptation to acute hypoxia in prematurely born individuals, Invited lecture - Université Savoie Mont Blanc, Chambéry, France.
- DEBEVEC T.** (2018) Cardio-respiratory responses of pre-term born individuals during rest and exercise in acute normobaric hypoxia. Invited lecture - Université de Lausanne, Lausanne, Switzerland.
- DEBEVEC T.** (2018) From sport science to Space and back. Invited lecture - Université Savoie Mont Blanc, Chambéry, France.
- DEBEVEC T.** (2018) Inactivity & Hypoxia – The PlanHab study. Invited lecture - University Grenoble Alps, Grenoble, France.
- DEBEVEC T.** (2016) Influence of hypoxia in children and preterm-born individuals on physiological responses during exercise. Invited lecture - the European Academy of Bolzano (EURAC), Institute of Mountain Emergency Medicine, Bolzano, Italy.
- DEBEVEC T.** (2016) Metabolic and nutritional aspects of hypoxic bed rest studies. Invited lecture - Space Life Science Symposium for ESAs Co-operating States European Astronauts Centre, Cologne, Germany.
- DEBEVEC T.** (2015) On the basic mechanisms of altitude/hypoxia acclimatization. Invited lecture - Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia.
- DEBEVEC T.** (2015) Altitude adaptation – from altitude natives to performance enhancement. Invited lecture - Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia.
- DEBEVEC T.** (2014) Different altitude training modalities for improvement of endurance performance. Invited lecture - UCT/MRC Research Unit for Exercise Science and Sports Medicine. University of Cape Town, Cape Town, SA.
- DEBEVEC T.** (2013) Short-term manipulations of oxygen tension: Implications for performance and erythropoiesis. Invited lecture - UCT/MRC Research Unit for Exercise Science and Sports Medicine. Sport Science Institute of South Africa, University of Cape Town, Cape Town, SA.

AWARDS

- Best research achievements 2025 award** – University of Ljubljana
- Excellence in Science 2020 award** – Slovenian Research Agency
- SMGA 2020 award** – Slovenian Mountain Guides Association
- SMGA 2018 award** – Slovenian Mountain Guides Association
- Marie Skłodowska-Curie Actions Seal of Excellence 2017** – Directorate General for Education, Youth, Sport and Culture; European Commission; Brussels, EU
- Top three in Hypoxia 2016** – 8th European Hypoxia Symposium; Poljče, Slovenia, September, 2016
- Top three in Hypoxia and Mountain Medicine Award 2014** – 7th European Hypoxia Symposium;

Kührointalm, Berchtesgaden, Germany September, 2014
SMGA 2012 award – Slovenian Mountain Guides Association
SMGA 2010 award – Slovenian Mountain Guides Association

REVIEWING AND SCIENTIFIC / ORGANISATIONAL POSITIONS

Reviewer – scientific journals

International Journal of Sports Medicine, International Journal of Obesity, Frontiers in Physiology, Journal of Physiology and Pharmacology, Oxidative Medicine and Cellular Longevity, Open Access Journal of Sports Medicine, PLoS ONE, Physiological Reports, Scandinavian Journal of Medicine & Science in Sports, Medicine & Science in Sports & Exercise, American Journal of Physiology - Regulatory, Integrative and Comparative Physiology, Appetite, BMJ Open Sport & Exercise Medicine, Physiology & Behavior, Biology of Sport, International Journal of Molecular Sciences, European Journal of Sport Science, High Altitude Medicine & Biology, Obesity, American Journal of Physiology - Gastrointestinal and Liver Physiology, Journal of Sport and Health Science, Medical Sciences, European Journal of Applied Physiology, BMC Anesthesiology, International Journal of Sports Physiology and Performance, The FASEB journal, Frontiers in Sport and Active Living, BMC Sports Science, Medicine and Rehabilitation, German Journal of Sports Medicine, Experimental Physiology, British Journal of Sports Medicine, Applied Physiology, Nutrition, and Metabolism, Journal of Thermal Biology, Journal of Applied Physiology, The International Journal of Aerospace Psychology, Frontiers in Psychology, Antioxidants, Science of Total Environment, npj Microgravity, Pulmonology, Journal of Sports Sciences, Scientific reports, Journal of Exercise Science and Fitness, International Journal of Sports Physiology and Performance, Sports Medicine – Open, Integrative and Comparative Biology, Heliyon, The Journal of Physiology, Sports Medicine.

Reviewer – grants, scientific meeting & funding agencies

Erasmus+ Action, EU Research Executive Agency, NSERC - Discovery Grant, Marie Skłodowska-Curie Action, EU Research Executive Agency, Austrian Science Fund, Annual Conference of the Society for Redox Biology and Medicine, United States Army Research Institute of Environmental Medicine (USARIEM) Scientific Review Committee, EU Education and Culture Executive Agency, International conference on Environmental Ergonomics, Swiss National Science Foundation, Research Council of Exposome Institute of the University of Montpellier.

Scientific positions

2023 – Editorial board member – High Altitude Medicine & Biology
2023 – Editorial board member – PLOS ONE
2020 – Editorial board member – European Journal of Sport Science
2019 – Editorial board member – Frontiers in Sports and Active Living
2017 – Editorial board member – Frontiers in Physiology, Environmental, Aviation and Space Physiology
2016 – Guest associate editor – Frontiers in Physiology, Exercise physiology
2015 – Editorial board member – Frontiers in Physiology, Exercise physiology

University/Faculty committee activity

2026 – ongoing President – University of Ljubljana, Habilitation committee
2025 – ongoing Member – University of Ljubljana, Habilitation committee
2023 – ongoing Member – Faculty of Sport, UL, Committee for R&D and doctoral studies
2023 – ongoing Head – Faculty of Sport, UL, Department of Mountaineering, skiing & recreation
2022 – ongoing Member – Slovene Research Agency – Humanities scientific national council
2022 – ongoing Member – UL work group for qualitative habilitation procedures
2021 – 2024 Member – UL work group for interdisciplinary habilitations
2021 – ongoing Member – Faculty of Sport, University of Ljubljana, Senate
2020 – ongoing Head – Faculty of Sport, University of Ljubljana, Habilitation committee
2017 – ongoing Member – Faculty of Sport, University of Ljubljana, Habilitation committee

2017 – 2021 Member – University of Ljubljana, Research and development committee

Organizational positions

2025 – Member of the scientific committee; 11th Hypoxia Symposium; 26.- 28. September, Berchtesgarden, Germany

2024 – Member of the scientific committee; 9th Human Physiology Workshop, 8th December, Cologne, Germany.

2023 – Member of the scientific committee; 8th Human Physiology Workshop, 8th December, Cologne, Germany.

2023 – Member of the organising committee; 10th Hypoxia Symposium; 8.–11. June. Prague, Czech Republic.

2022 – Member of the scientific committee; 7th Human Physiology Workshop, 3rd December, Cologne, Germany.

2022 – Organising committee member; 19th International conference on Environmental Ergonomics; 6th-10th September, Niagara Falls, Canada.

2021 – Member of the scientific committee; Human Physiology Workshop, 6th December, Cologne, Germany.

2020 – Founding member of the Virtual Environmental Physiology series co-organised with Stephen Cheung (Brock Uni, Canada) & Chris Tyler (Roehampton Uni, UK). www.icee2021.com

2017 – Organizing committee Chairman – IFMGA international meeting, May 8th-14th, Kranjska gora, Slovenia.

2016 – Local organizing committee Chairman - 6th International Conference on the Physiology and Pharmacology of Temperature Regulation, December 5-9, Ljubljana, Slovenia.

2015 – Local organizing committee Chairman - 36th Annual Meeting of the International Society for Gravitational Physiology, June 7-12, Ljubljana, Slovenia.

2014 – Chairman – 1st Environmental ergonomics & physiology symposium; 17th Information Society – IS, October 9th, Ljubljana, Slovenia.

International PhD defense committee memberships

2024 – December 4th PhD defense external examiner (UWA, Perth, Australia). Thesis title: *Riding high: reducing external load and preserving internal load during heart rate clamped cycling with systemic hypoxia*.

Author: Casper Li; Supervisor: prof. Olivier Girard

2019 – May 28th - PhD defense external examiner (KU Leuven, Leuven). Thesis title: *Hypoxic exposure to increase exercise performance: beneficial aspects and potential drawbacks*. Author: Stefan De Smet;

Supervisor: prof. Peter Hespel

2019 – July 16th - PhD defense external examiner (University Savoie Mont Blanc, Chambéry). Thesis title: *Fatigue neuromusculaire induite par répétition de sprints – Etiologie et impact de l'hypoxie*. Author: Arthur Peyrard; Supervisor: prof. Thomas Rupp; Co-supervisors: prof. Laurent Messonnier & prof. Grégoire Millet

REFEREED FULL LENGTH SCIENTIFIC JOURNAL PAPERS

101. VERMAERKE N, VERMEIREN S, TOMINEC D, LAURIKS W, ROBBERECHTS R, **DEBEVEC T**, MANTINI D, POFFÉ C & STALMANS M. Exogenous ketosis mitigates hypoxia-induced neural signaling alterations and cerebral oxygenation decline at rest in healthy males. *Journal of Applied Physiology*. (2026).
100. KOWALSKI T., RĘBIŚ K., WILK A., SZWED P., GROCHOWSKA J. & **DEBEVEC T**. Effectiveness of Voluntary Isocapnic Hyperpnoea for Mitigating Hypoxemia and Acute Mountain Sickness in Normobaric Hypoxia: A Randomized Crossover Pilot Trial. *Scientific Reports*, (2026).
99. TAGLIAPIETRA G., CITHERLET T., RABERIN A, NARANG B.J., MANFERDELLI G., GIARDINI G., **DEBEVEC T.**, PIALOUX V. & MILLET G.P. Impact of the menstrual cycle on oxidative stress, inflammation and iron status at high altitude. *Nitric Oxide*. (2026).
98. TAGLIAPIETRA G., MANFERDELLI G., CITHERLET T., RABERIN A., NARANG B.J., **DEBEVEC T.**, MILLET G.P. Impact of the menstrual cycle phase on microvascular function at high altitude. *Microvascular Research*. (2026).

97. MALLETT RT, BURTSCHER J, GATTERER H, HÜFNER K, VERGES S, **DEBEVEC T**, AND BURTSCHER M. Reduced cardiovascular mortality at moderate altitude: A putative role of physical activity and body mass. *The Journal of Physiology*. (2026).
96. NARANG BJ, TOMINEC D, STALMANS M, MILLET GP, POFFÉ C & **DEBEVEC T**. The effects of two days of intermittent exogenous ketosis at high altitude on baroreflex sensitivity and ventilation under hypoxic and hypercapnic conditions. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*. (2025).
95. TOMINEC D, STALMANS M, NARANG BJ, MILLET GP, POFFÉ C & **DEBEVEC T**. Exogenous ketosis during early acclimatization at high altitude: ventilatory, cardiovascular and muscular responses to maximal exercise. *Medicine & Science in Sports & Exercise*. (2025).
94. STALMANS M, TOMINEC D, LAURIKS W, ROBBERECHTS R, RAMAEKERS M, **DEBEVEC T** & POFFÉ C. Reply to: Examination of individual responses to acute ketone monoester ingestion during maximal aerobic exercise at altitude may generate physiological insights. *Journal of Applied Physiology*. (2025).
93. KOWALSKI T, WILK A, RĘBIŚ K, MALCZEWSKA-LENCZOWSKA J, KLUSIEWICZ A, **DEBEVEC T** & FAISS R. Physiological and performance parameters associated with critical power decline in hypoxia among highly trained endurance athletes. *Biology of Sport*. (2025).
92. NARANG BJ, ŠTRITOF A & **DEBEVEC T**. The acute effects of caffeine and normobaric hypoxia on cardio-respiratory exercise responses in healthy: a randomized controlled trial. *International Journal of Sport Nutrition and Exercise Metabolism*. (2025).
91. KOWALSKI T, RĘBIŚ K, WILK A, GRANDA D, BIALECKI A, **DEBEVEC T** & FAISS R. Muscle oxygen saturation plateau: definition and verification under different oxygen availability conditions in locomotor and non-locomotor muscles. *Experimental Physiology*. (2025).
90. KOWALSKI T, RĘBIŚ K, WILK A, SZWED P, KLUSIEWICZ A, **DEBEVEC T** & FAISS R. Critical power and critical oxygenation: examining transferability between normoxia and hypoxia. *European Journal of Applied Physiology*. (2025).
89. GRANT WM, GOODS PSR, WALL BA, DAVIDS CJ, NARANG BJ, **DEBEVEC T** & SCOTT BR. Validity and test-retest reliability of repetitions-in-reserve across different low-loads in the barbell bench press with blood flow restriction. *Journal of Strength and Conditioning Research*. (2025).
88. STALMANS M, TOMINEC D, LAURIKS W, ROBBERECHTS R, RAMAEKERS M, **DEBEVEC T** & POFFÉ C. Ketone ester ingestion impairs exercise performance without impacting cognitive function or circulating EPO during acute hypoxic exposure. *Journal of Applied Physiology*. (2025).
87. BEAUME JB, DI DOMENICO H, BOWEN M, HINTZY F, MILLET GY, PAGEAUX B, **DEBEVEC T** & RUPP T. Neuromuscular fatigue induced by cycling at a fixed level of perceived effort: effects of different purported hypoxic methods. *Scandinavian Journal of Medicine and Science in Sports*. (2025).
86. CHAMBION-DIAZ M., MANFERDELLI G., NARANG B.J., GIARDINI G., **DEBEVEC T.**, PIALOUX V., MILLET G.P. Oxidative stress and nitric oxide metabolism responses during prolonged high-altitude exposure in preterm born adults. *Journal of Sport and Health Science*. (2025).
85. NARANG B.J., MANFERDELLI G., MILLET G.P. & **DEBEVEC T**. Nocturnal pulse oxygen saturation dynamics at simulated high altitude: Predictive value for acute mountain sickness in healthy men born pre-term. *Experimental Physiology*. (2025).
84. NARANG B., DROLE K., BARBER J., GOODS P. & **DEBEVEC T**. Utility of hypoxic modalities for musculoskeletal injury rehabilitation in athletes: a narrative review of mechanisms and contemporary perspectives. *Journal of Sports Sciences*. (2025).
83. KRUMM B., RABERIN A., CITHERLET T., TAGLIAPIETRA G., FAISS R., PIALOUX V., **DEBEVEC T.**, GIARDINI G. & MILLET G.P. Accelerated red blood cell turnover following extreme mountain ultramarathon? *Medicine & Science in Sports & Exercise*. (2025).
82. STALMANS M., TOMINEC D., ROBBERECHTS R., LAURIKS W., RAMAEKERS M., **DEBEVEC T.** & POFFÉ C. A single night in hypoxia either with or without ketone ester ingestion reduces sleep quality without impacting next day exercise performance. *Medicine & Science in Sports & Exercise*. (2025).
81. TAGLIAPIETRA G., CITHERLET T., RABERIN A., BOURDILLON N., KRUMM B., NARANG B.J., GIARDINI G., PIALOUX V., **DEBEVEC T.** & MILLET G.P. Effect of menstrual cycle phase on physiological

responses in healthy women at rest and during submaximal exercise at high altitude. *Scientific Reports*. (2025).

80. **DEBEVEC T.**, LONGMAN D. & BOURGOIS J.G. Defining Adaptation within Applied Physiology -Is there room for improvement? *Frontiers in Physiology*. (2024).
79. STALMANS M., TOMINEC D., LAURIKS W., ROBBERECHTS R., **DEBEVEC T.** & POFFÉ C. Exogenous ketosis attenuates acute mountain sickness and mitigates normobaric high-altitude hypoxemia. *Journal of Applied Physiology*. (2024).
78. NARANG B., MANFERDELLI G., MILLET G.P. & **DEBEVEC T.** Effects of pre-term birth on the pattern of altitude acclimatisation at rest and during moderate-intensity exercise across three days at 3375 m. *Journal of Applied Physiology*. (2024).
77. NIESOR E.J., PEREZ A., REZZI S., HODGSON A., CANARELLI S., MILLET G.P., **DEBEVEC T.**, BORDAT C., NADER E. & CONNES P. Plasma monomeric ApoA1 and high-density lipoprotein bound ApoA1 are markedly decreased and associated with low levels of lipophilic antioxidants in sickle cell disease: A potential new pathway for therapy. *Eur J Haematol*. (2024).
76. GORIČAR K., **DEBEVEC T.**, DOLŽAN V., MARTIN A., PIALOUX V., MILLET G.P. & OSREDKAR D. Antioxidant and neurodevelopmental gene polymorphisms in prematurely born individuals influence hypoxia-related oxidative stress. *Scientific Reports*. (2024).
75. MANFERDELLI G., NARANG B., BOURDILON N., GIARDINI G., DEBEVEC T. & MILLET G.P. Impaired cerebrovascular CO₂ reactivity at high-altitude in prematurely born adults. *The Journal of Physiology*. (2024).
74. MANFERDELLI G., NARANG B., BOURDILON N., **DEBEVEC T.** & MILLET G.P. Baroreflex sensitivity is blunted in hypoxia independently of changes in inspired carbon dioxide pressure in prematurely born male adults. *Physiological Reports*. (2024).
73. NARANG B., MANFERDELLI G., BOURDILON N., MILLET G.P. & **DEBEVEC T.** Ventilatory responses to independent and combined hypoxia, hypercapnia and hypobaria in healthy pre-term born adults. *The Journal of Physiology*. (2023).
72. BURTSCHER J., CITHERLET T., CAMACHO-CARDENOSA A., CAMACHO-CARDENOSA M., RABERIN A., KRUMM B., HOHENAUER E., EGG M., LICHTBLAU M., MUELLER J., RYBNIKOVA E., GATTERER H., **DEBEVEC T.**, BAILLIEUL S., MANFERDELLI G., BEHRENDT T., SCHEGA L., EHRENREICH H., MILLET G., GASSMANN M., SCHWARZER C., GLAZACHEV O., GIRARD O., LALANDE S., HAMLIN M., SAMAJA M., HÜFNER K., BURTSCHER M., PANZA G. & MALLETT R. Mechanisms underlying the health benefits of intermittent hypoxia conditioning. *The Journal of Physiology*. (2023).
71. TOMINEC D. & **DEBEVEC T.** Sprint interval training in hypoxia and exercise performance – a short review. *Kinesiology Slovenica*. (2023).
70. MANFERDELLI G., NARANG B., PIALOUX V., GIARDINI G., **DEBEVEC T.** & MILLET G.P. Microvascular and oxidative stress responses to acute high-altitude exposure in prematurely born adults. *Scientific Reports*. (2023)
69. UŠAJ A., SOTIRIDIS A. & **DEBEVEC T.** Cardio-respiratory and muscle oxygenation responses to submaximal and maximal exercise in normobaric hypoxia: Comparison between children and adults. *Biology*. (2023).
68. MANFERDELLI G., NARANG B., BOURDILON N., **DEBEVEC T.** & MILLET G.P. End-tidal CO₂ partial pressure is a reliable surrogate of arterial CO₂ partial pressure across different O₂, CO₂, and barometric pressures. *ERJ Open Research*. (2023)
67. MLINAR T., **DEBEVEC T.**, KAPUS J., NAJĐENOV P., MCDONNELL A.C., UŠAJ A., MEKJAVIC I.B., JAKI MEKJAVIC P. Retinal blood vessel diameters in children and adults exposed to a simulated altitude of 3,000 m. *Frontiers in Physiology*. (2023)
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INDUSTRY RELATED WORK

Dr. Debevec is involved in numerous collaborations with industrial partners aiming at transferring basic scientific knowledge to industrial applications or enabling industrial partners testing of their products in different environmental conditions. These projects have been (and are still) performed in collaboration with domestic (Alpina, UCS, Pilon) and international companies (Gore-Tex, b-Cat, LaSportiva; K-C).

NON-SCIENTIFIC QUALIFICATIONS & PERSONAL INTERESTS

IFMGA certified Mountain Guide – Slovenian Mountain Guides Association – President of the Technical Commission

Mountain rescuer – Slovenian mountain rescue association

Mountaineering, Climbing, Trail running, Mountain biking, SkiMo

Reading novels by Deon Meyer and Ken Follett

Engaging in stimulating discussions with people way smarter than me (wife, kids, colleagues and friends 😊)