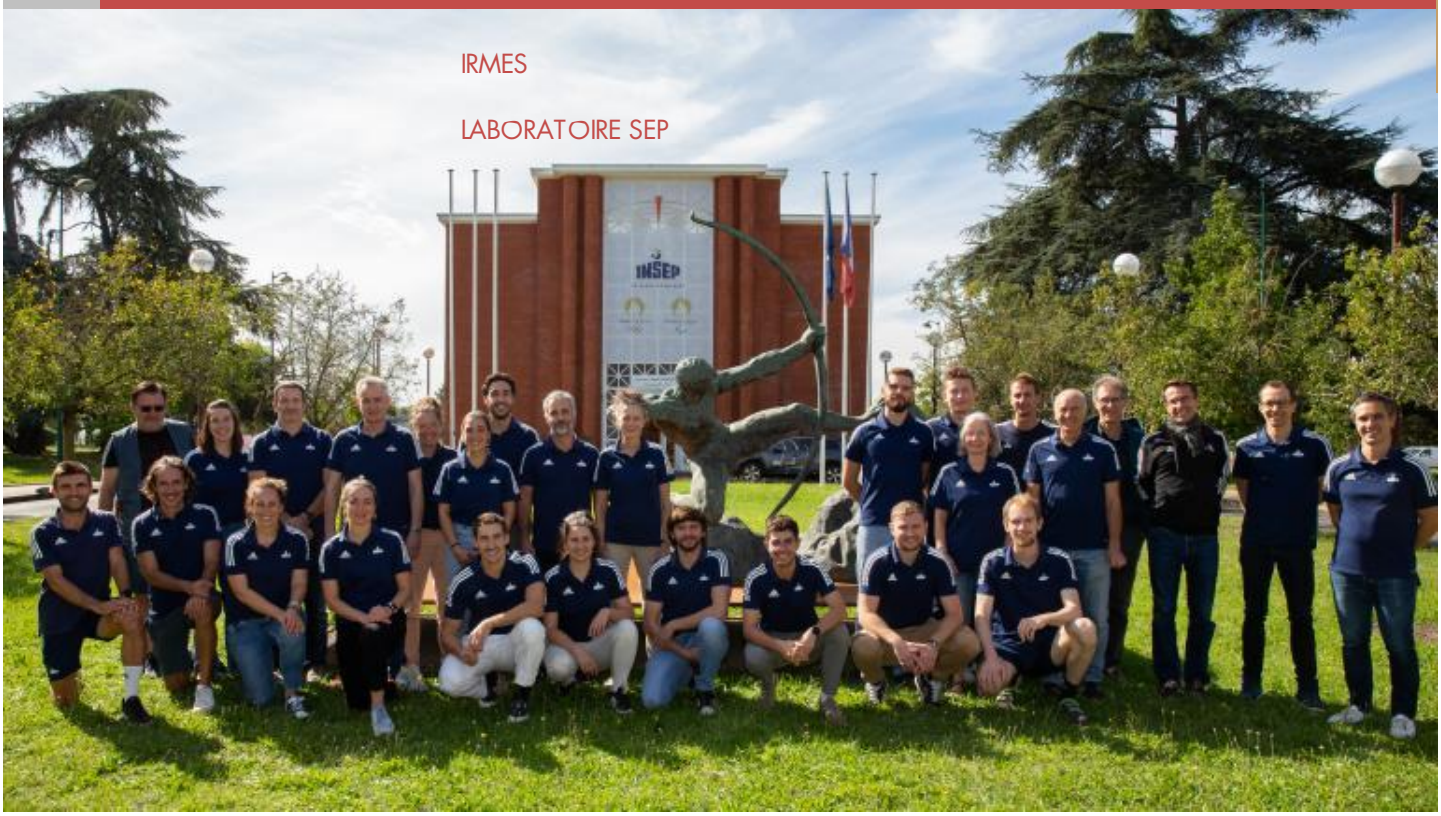

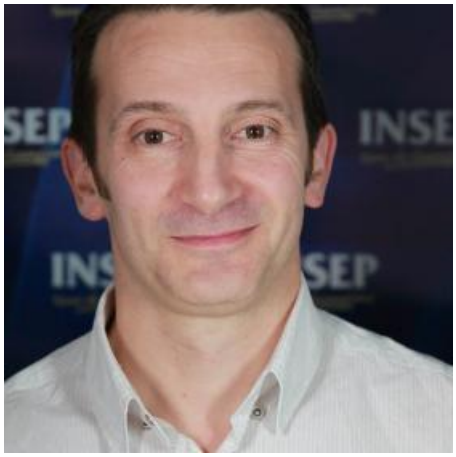

CHERCHEUR EN PHYSIOLOGIE DE L'EXERCICE, PHYSIOLOGIE ENVIRONNEMENTALE

BROCHERIE FRANCK

PHD

SCIENTIFIC SUPPORT REFERENT

URL of the page: https://labos-recherche.insep.fr/en/annuaire-des-personnes/brocherie-franck

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Who are we ?"

SPECIALITIES

- Exercise and environmental physiology
- Neurophysiology
- Biomechanics

RESEARCH THEMES

- Neurophysiological and biomechanical determinants and mechanism of exercise-induced fatigue resistance
- Innovative training (environmental stress)
- Cross-tolerance and/or adaptation and combination of environmental stresses

SCIENTIFIC SUPPORT (ASP)

- **Interventions: Quantification of training load, physiological monitoring, heat acclimatisation, hypoxic training (sprint repetition, vascular occlusion)**
- **Measurements: VO2max, VMA, heart rate, oxygen saturation, core and skin temperature, biomarkers (lactate, CK...)**
- **Federations : Athletics, Cycling, Canoeing, Triathlon, Rugby, Ice Hockey...**

MAIN SCIENTIFIC PUBLICATIONS

- Brocherie F, Perez J, Guilhem G. The Effects of a 14-Day High-Intensity Shock Microcycle in high-level ice hockey Players' fitness. Journal of Strength and Conditioning Research 2020. Vers l'article
- Brocherie F, Millet GP, D'Hulst G, Van Thienen R, Deldicque L, Girard O. Repeated maximal-intensity hypoxic exercise superimposed to hypoxic residence boosts skeletal muscle transcriptional responses in elite team-sport athletes. Acta Physiology, 2018; 222(1). Vers l'article
- Brocherie F, Girard O, Faiss R, Millet GP. Effects of repeated-sprint training in hypoxia on sea-level performance: a meta-analysis. Sports Medicine, 2017; 47(8): 1651-166. Vers l'article
- Brocherie F, Millet GP, Morin JB, Girard O. Mechanical alterations to repeated treadmill sprints in normobaric hypoxia. Medicine and Science in Sports and Exercise 2016; 48(8): 1570-9. Vers l'article
- Brocherie F, Millet GP, Girard O. Neuro-mechanical and metabolic adjustments induced by the repeated anaerobic sprint test performed by professional soccer players. European Journal of Applied Physiology, 2015; 115(5): 891-901. Vers l'article

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