

## Babak Shadgan MD, MSc, PhD

5440 - ICORD, Blusson Spinal Cord Centre, 818 West 10th Ave. | Vancouver BC | V5Z 1M9 Canada  
shadgan@mail.ubc.ca

### Affiliations:

#### **University of British Columbia**

- *Clinical Biophotonics Research Scientist, International Collaboration on Repair Discoveries*
- *Faculty, Department of Orthopaedics, Faculty of Medicine*
- *Faculty, School of Biomedical Engineering, Faculty of Applied Sciences*

#### **International Society for Optics & Photonics (SPIE)**

- *Senior Member*
- *Instructor*
- *Scholarship Committee Member*
- *Conference Chair*

#### **United World Wrestling**

- *President, Medical & Anti-Doping Commission*

### Short Bio:

Babak Shadgan is a medical doctor specialized in Sports Medicine with a Ph.D. in Clinical Biophotonics. He received his MD degree in 1994, an MSc in sports medicine from the University of London in 2001 and a Ph.D. in clinical biophotonics from the University of British Columbia (UBC) in 2011. He also completed a fellowship on NIRS-Diffused Optical Tomography at Martinos Center for Biomedical Imaging of MIT/Harvard University. His postdoctoral fellowship at ICORD (the International Collaboration on Repair Discoveries) was focused on remote optical monitoring of bladder dysfunction in people with spinal cord injury. With more than two decades of medical practice and research Babak has developed a specific knowledge in clinical biophotonics with a unique bedside-to-bench approach. His current research focuses on advancing a novel optical method for real-time monitoring of spinal cord hemodynamics, metabolism, and function in people with spinal cord injuries. As an Olympic sports physician and medical director, Babak is actively working on sports and exercise applications of Biophotonics. He is currently involved in developing optical diagnostics and monitoring interventions in Sports Medicine and Exercise Science.

Dr. Shadgan teaches “*Fundamentals of Applied Pathophysiology in Biomedical Engineering*” at UBC, and “*Applied Pathophysiology in Biophotonics*” at SPIE (the International Society for Optics & Photonics).