

Curriculum vitae

Olivier Ghislain BERNUS

Current position and functions

Professor, Université de Bordeaux (France)

Team Leader, « Cardiac Electrophysiology » team, Centre de Recherche Cardiothoracique de Bordeaux, U1045, Université de Bordeaux (France)

Education and qualifications

January 2013	Qualification – Professeur des Universités (CNU section 63 and 66)
November 2012	Habilitation à Diriger des Recherches , Université Bordeaux Segalen (France)
May 2003	PhD Biophysics « Development of a realistic computer model of the human ventricles for the study of reentrant arrhythmias », Ghent University (Belgium)
July 1999	MSc Mathematics (summa cum laude), Ghent University (Belgium)
July 1997	BSc Physics (cum laude) and BSc Mathematics (cum laude), Ghent University (Belgium)

Career history

2014 – present	Professor , Inserm U1045 – Centre de Recherche Cardio-Thoracique de Bordeaux, Université de Bordeaux, Bordeaux (France)
2019 – 2023	Deputy Director of the Health Sciences and Technologies Department, Université de Bordeaux (France)
2011 – 2022	Scientific Director of the Electrophysiology and Heart modeling Institute (IHU Liryc), Bordeaux (France)
2011 – 2014	Assistant Professor , Inserm U1045 – Centre de Recherche Cardio-Thoracique de Bordeaux, Université de Bordeaux, Bordeaux (France)
2007 – 2011	Tenure-track Independent Research Fellow , Institute of Membrane and Systems Biology, Faculty of Biological Sciences, University of Leeds (UK)
2004 – 2006	Postdoctoral Research Fellow , Department of Pharmacology, SUNY Upstate Medical University, Syracuse (USA)
1999 – 2003	PhD student , Department of Mathematical Physics and Astronomy, Ghent University (Belgium)

Publications and presentations

- h-index: 28 (Web of Science), 29 (Scopus), 34 (Google Scholar)
- Peer-reviewed articles: 101 (Web of Science)
- Book chapters: 8
- Books: 2
- Invited presentations at national and international conferences: 29
- Abstracts at international conferences: 111

Innovation and industrial collaboration

- Patents: 4
- Collaborator on a grant from BioSense Webster (Johnson & Johnson, 750k€, 2020-2023) aiming at developing novel high-resolution catheters for mapping of the ventricular conduction network.

Awards and prizes

- Poster Award, ESF Cardiac Dynamics meeting, Bratislava, Slovakia, 2009.
- Visiting Professorship at the Newton Institute, Cambridge, UK, 2009.
- Career Development Award (£1,500) from the Multidisciplinary Cardiovascular Research Centre (MCRC) at the University of Leeds, Leeds, UK, 2008.
- Honorary Fellowship, Research Foundation Flanders, Belgium, 2007-2008.
- Postdoctoral Fellowship, Research Foundation Flanders, Belgium, 2005-2007.
- PhD Studentship, Flemish Institute for the Promotion of Scientific and Technological Research in Industry, Belgium, 1999-2003.

Editorial and grant reviewing activities

- **Associate Editor** for Frontiers in Cardiac Electrophysiology (2012– present).
- **Review Editor** for Frontiers in Computational Biology and Medicine (2011– present).
- **Guest Editor** for American Journal of Physiology, Physica D and Plos Computational Biology.
- **Article reviews** for over 30 journals in Medicine, Cardiology, Physiology, Biomedical Engineering, Computer modeling and Imaging.
- **Grant reviews** for The European Science Foundation (Europe), L'Agence Nationale de la Recherche (France), Engineering and Physical Sciences Research Council (UK), The Hadwen Trust (UK), Medical Research Council (UK), Wellcome Trust (UK), Austrian Science Fund (Austria), Thailand Research Fund (Thailand), Fund for Scientific Research (Belgium).

Organization of scientific meetings

- Liryc Cardiac EP Summer School, Bordeaux, France, 2019 & 2022.
- Atrial Signals–Physicians meet engineers, Bordeaux, France, 2019.
- RHYTHM Leducq Transatlantic Network workshop, Bordeaux, France, 2017.
- Northern Cardiovascular Research Group Meeting, Leeds, UK, 2008.
- International Workshop on Non-linear Dynamics in Excitable Media, Ghent, Belgium, 2007.

Supervision of postdoctoral fellows, PhD students and MSc students

- Postdoctoral fellows (since 2008): 14
- PhD students (since 2011): 7
- MSc students (since 2007): 16