

Steven LAUREYS

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Professional addresses

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Present position

Research Director (tenure) at the Belgian National Fund for Scientific Research (FNRS); Director & Founder, Coma Science Group, University of Liège; Clinical Professor (tenure), Neurology Dept., University Hospital, University of Liège

Current h-index: 75 <http://orbi.ulg.ac.be/ph-search?uid=U182349>

Number of Medline/Pubmed -indexed peer-reviewed papers: 294

University qualifications

1993 : Medical Doctor, Vrije Universiteit Brussel, Brussels, Belgium : magna laude
1997 : Master in Science (Medical and Pharmaceutical Research, Specialization in Pharmaceutical Medicine), Vrije Universiteit Brussel : magna laude
1998 : Qualified in Neurology, Ministry of Health, Belgium
2000 : Ph.D. in Biomedical Sciences, University of Liège, Liège, Belgium: summa cum laude
2004 : Qualified in Palliative Care (Université Libre de Bruxelles, Université de Liège, Université Catholique de Louvain) : magna laude
2007 : Agrégation de l'enseignement supérieur (Habilitation) (ULg)
2007 : Clinical Professor (ULg)
2008 : Clinical Professor (ULg)

PhD thesis director: **Past : 14** **Ongoing : 19**

Professional history

Clinical

1990-1993 : Internships in St. Pierre Hospital Brussels, Bond Moyson Hospital Menen and at the Stellenbosch University Hospital, Tygerberg, Cape Town, South Africa
1993-1997 : Resident in Internal Medicine, Neurology & Psychiatry, Academic Hospital Brugmann & University Hospital-Vrije Universiteit Brussel, Brussels
1997-1998 : Resident in Neurology, University Hospital Sart Tilman, Liège
1999-2000 : Neurology Consultant, University Hospital- Vrije Universiteit Brussel
1999-2004 : Positron Emission Tomography Neuro-Imaging Consultant, University Hospital Erasme- Université Libre de Bruxelles, Brussels
1998-2006 : Neurology Consultant, University Hospital Sart Tilman, Liège
2006-present: Head of Clinics, Neurology Dept, University Hospital, Liège
2008-present: Clinical Professor, Neurology Dept, University Hospital, Liège

Research

1992-1997 : Research Fellow, Department of Pharmaceutical Chemistry and Drug Analysis, Vrije Universiteit Brussel
2000-2003 : Postdoctoral Researcher, FNRS, University of Liège
1999-2004 : Scientific Research Worker, University Hospital Erasme, Université Libre de Bruxelles
2003-2007 : Research Associate, FNRS, University of Liège
2007-2012 : Senior Research Associate, FNRS
2007-present : Director & Founder, Coma Science Group
2012-present : Research Director, FNRS

Representative publications

Original publications:

Diagnostic precision of PET imaging and functional MRI in disorders of consciousness: a clinical validation study
Stender J, Gosseries O, Bruno MA, Charland-Verville V, Vanhaudenhuyse A, Demertzi A, Chatelle C, Thonnard M, Thibaut A, Heine L, Soddu A, Boly M, Schnakers C, Gjedde A, Laureys S, *Lancet* (2014) Apr 15
Willful modulation of brain activity in disorders of consciousness Monti MM & Vanhaudenhuyse A, Coleman MR,

- Boly M, Pickard JD, Tshibanda JF, Owen AM, Laureys S *New England Journal of Medicine* 362 (2010) 579-89
- Bedside detection of awareness in the vegetative state Cruse D, Cennu S, Chatelle C, Bekinschtein TA, Fernández-Espejo D, Pickard JD, Laureys S, Owen AM *Lancet* 378 (2011) (9809) 2088-94
- Preserved feedforward but impaired top-down processes in the vegetative state Boly M, Garrido MA, Gosseries O, Bruno MA, Boveroux P, Schnakers C, Massimini M, Litvak V, Laureys S, Friston K *Science* 332 (2011) 858-862
- Perception of pain in the minimally conscious state with PET activation: an observational study Boly M, Faymonville ME, Schnakers C, Peigneux P, Lambermont B, Phillips C, Lancellotti P, Luxen A, Lamy M, Moonen G, Maquet P, Laureys S *Lancet Neurology* 7 (2008) 1013-1020
- Baseline brain activity fluctuations predict somatosensory perception in humans Boly M, Balteau E, Schnakers C, Degueldre C, Moonen G, Luxen A, Phillips C, Peigneux P, Maquet P, Laureys S. *Proc Natl Acad Sci USA* 104 (2007) 12187-12192

Reviews:

- Death, unconsciousness and the brain Laureys S *Nature Reviews Neuroscience*, 11 (2005) 899-909
- The neural correlate of (un)awareness: lessons from the vegetative state Laureys S *Trends Cogn Sci* 9 (2005) 556-559
- Brain function in coma, vegetative state, and related disorders Laureys S, Owen A, Schiff N *Lancet Neurology* 3 (2004) 537-46

Prizes and awards

- 1997 : Eli Lilly/Flemish Society of Neurology & Psychiatry – First Prize Experimental Neurology
- 1997 : Prix De Vooght, Brussels
- 1999 : Lauréat Fondation Léon Fredericq, Liège
- 2000 : Human Brain Project Travel Award, Organization for Human Brain Mapping's 6th Annual Meeting, San Antonio, TX, USA
- 2000 : First Prize, European Society of Anesthesiologists' 9th Annual Meeting, Vienna
- 2001 : Human Brain Project Travel Award, Organization for Human Brain Mapping's 7th Annual Meeting, Brighton
- 2002: Belgian Bi-annual Neurological Society Award - Glaxo Smith Kline
- 2003 : Human Brain Project Travel Award, Organization for Human Brain Mapping's 9th Annual Meeting, New York, USA
- 2003 : European Federation of Neurological Societies Award, 7th Annual Meeting, Helsinki
- 2004 : ASSC William James Prize for Contributions to the Study of Consciousness, USA
- 2005 : Tom Slick Research Award in Consciousness, Mind Science Foundation, TX, USA
- 2006: Belgian Nuclear Research Centre - Pr Roger Van Geen Award
- 2006 : Tom Slick Research Award in Consciousness, Mind Science Foundation, TX, USA
- 2007: InBev-Baillet Latour Fund Clinical Research Prize
- 2007: Society of Cognitive Neuroscience Young Investigator Award, New York, USA
- 2009: 26th World Cultural Council Award - Special Recognition for Science – Mexico/ULg
- 2011: Honorary citizenship, Hoeilaart, Flanders
- 2012: Blaise Pascal Medal of Medicine, European Academy of Sciences
- 2014: Mérite Wallon Rang d'Officier
- 2014-2015: Francqui Professor Chair – University of Namur
- 2015: Marcel Linsman Prize for excellence in the biomedical sciences

Funding (past 5 years)

- 2013-2019 : FP7-HEALTH-2013-INNOVATION-1 Collaborative European NeuroTrauma Effectiveness Research in TBI (D Menon-A Maas) -
- 2012-2017 : European Science Foundation - European Cooperation in the field of Scientific and Technical Research (COST) (contract # TD1005) Pain Assessment in Patients with Impaired Cognition, especially Dementia
- 2012-2017 : Interuniversity Attraction Poles (IAP) Phase VII : Integrated cerebral networks for perception, cognition and action in human and non-human primates (CEREBNET; coordinator: Wim Vanduffel)
- 2010-2015 : European Space Agency : Spaceflight induced neuroplasticity studied with advanced magnetic resonance imaging methods (BRAIN DTI with Floris Wuyts)
- 2009-2011 : European Commission Seventh Research Framework Program FP7 - Deployment of Brain-Computer Interfaces for the Detection of Consciousness in Non-Responsive Patients (DECODER)
- 2008-2016: James S. McDonnell Foundation - Collaborative study of recovery of consciousness after severe brain injury (with N Schiff, NY and A Owen, Cambridge)
- 2007-2009 : Commission of the European Communities (contract # 043457) Measuring consciousness -Bridging the mind-brain gap (MindBridge)
- 2007-2010 : Commission of the European Communities Marie Curie Training Networks (contract # MRTN-CT-2006-035975) Disorders and Coherence of the Embodied Self (DISCOS)

Editorial and reviewing activities

Reviewer for French, Austrian and Israeli National Research & Science Agencies; Reviewer Fondation pour la Recherche Médicale, Scientific Reviewer Templeton Foundation

Ad hoc reviewer / commentator for *Science*, *Nature Clin Pract*, *Nature Reviews Neurosci*, *New England Journal of Medicine*, *Lancet*, *Lancet Neurology*, *J Clin Invest*, *J Neuroscience*, *Neuron*, *J American Medical Association*, *Brain*, *Annals of Neurology*, *Neurology*, *Neuroimage*, *Human Brain Mapping*, *Archives of Neurology*, *J Neurol Neurosurg Psychiatry*, *J Neurol*, *Anesthesiology*, *Archives of Physical Medicine and Rehabilitation*, *Behavioral Brain Sciences*, *Consciousness & Cognition*, *Cephalgia*, *Epilepsia*, *Canadian Med Ass J*, *Eur J Neurology*, *Eur J Nucl Molec Imag*, *J Neurol Sci*, *Neuropsychologia*, *Psychiatry Res*, *Experimental Neurology*, *Ann N Y Acad Sci*, *Proc Natl Acad Sci U S A*, *Critical Care Medicine*, *Internal Medicine J*, *Pain*

Editorial Board - *Seminars in Brain & Consciousness* (2008-)

Editor for the neurorabilitation module of the “Ebrain” e-learning program (www.ebraininc.com)

Associate Editor for *Frontiers in Human Neuroscience* (2008-)

Section Editor (Trauma and Rehabilitation) for *Current Opinion in Neurology* –2007

Section Editor for *Progress in Brain Research* – 2005, 2009

Fellowships and Scientific Memberships

President-Elect, Association for the Scientific Study of Consciousness (2015)

Member of the Belgian Advisory Committee on Bioethics (2014-)

Elected Delegate, European Academy of Neurology (2014-)

Chair, European Academy of Neurology Subspecialty Scientific Panels on Coma and Disorders of Consciousness (2014-)

Founder & Chair, World Federation of Neurology Applied Research Group on Coma and Disorders of Consciousness (2012-)

Chair, European Neurological Society (ENS) Subcommittee on Coma and Disorders of Consciousness (2008-2014)

Board of Governors, International Brain Injury Association, (2010-)

Board of Directors, Association for the Scientific Study of Consciousness (2009-2012)

Member of the World Health Organization (WHO) Global Neurology Network - Diseases of the Nervous System Working Group reviewing the International Classification of Diseases, 11th edition (ICD11)

Member of the American Academy of Neurology Committee for the Development of Practice Guidelines for the Vegetative and Minimally Conscious State (2007-)

Member of the European Academy of Sciences (2012-)

National Institutes of Health (NIH)/ National Institute of Neurological Disorders and Stroke (NINDS) Identifying Common Data Elements (CDEs) for Traumatic Brain Injury (TBI) Working Group (2011-)

Research Advisory Board for the Traumatic Brain Injury Model System, USA National Institute on Disability and Rehabilitation Research (2012-)

Medical Director of the European Consortium on Disorders of Consciousness (2010-)

Invited Professor College Belgique (2008-)

Member of the Locked-in Syndrome International Scientific Committee (2009-)

Management Committee Member of the European Cooperation in the field of Scientific and Technical Research (2008-)

Member of the European Federation of Neurological Societies Task Force for the Development of Management Guidelines for the Vegetative State (2007-)

Research Collaborator, Oxford Centre for Neuroethics (2008-)

Honorary International Fellow at the Institute of Complex Neuro-disability, Royal Hospital of Neuro-disability, London, UK (2004-)

Member of the French Association for Locked-in Syndrome Scientific Board (2002-)

Member of the Society for Neuroscience, Organization for Human Brain Mapping, Neuroethics Society, Association for the Scientific Study of Consciousness, Cognitive Neuroscience Society, European Neurological Society, European Federation of Neurological Societies, Academy for Multidisciplinary Neurotraumatology, Belgian Society of Neurology, Belgian Society of Neuroscience

