

Personal details Born in Leuven, Belgium, December 24, 1968; Father of Clara, Hugo and Matias

Professional addresses

Coma Science Group
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Present post

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
Percent of time spent in: teaching (20%), research (50%), clinical (30%), private (0%)

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 (ULg)
2008 : Clinical Professor (ULg)

PhD thesis director: Past : 14 Ongoing : 19

Melanie BOLY, Caroline SCHNAKERS, Didier LEDOUX, Audrey VANHAUDENHUYSE, Marie-Aurélié BRUNO, Olivia GOSSERIES, Victor COLOGAN, Athena DEMERTZI, Pierre BOVEROUX, Audrey MAUDOUX, Camille CHATELLE, Raphaël LIÉGEOIS, Enrico AMICO, Georgios ANTONOPOULOS, Carol DI PERRI, Pieter GULDENMUND, Lizette HEINE, Damien LESENFANTS, Johan STENDER, Willemijn VAN ERP, Sarah WANNEZ, Marie THONNARD, Olivier BODART, Vanessa CHARLAND-VERVILLE, Sylvia GANTNER, Muriel KIRSCH, Zulay LUGO, Dina HABBAL, Aurore THIBAUT, Luaba TSHIBANDA, Charlotte MARTIAL, Jitka ANNEN, Giogios ANTONOPOULOS

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

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, 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
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)

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

A handwritten signature in black ink, appearing to be 'S. J.', written in a cursive style.