

CURRICULUM VITAE

Personalia

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Date of birth : January 29, 1960
Place of birth : Tielt
Nationality : Belgian

Education

1981	Bachelor in Medicine, KULeuven, Belgium	Magna cum Laude
1985	Doctor in Medicine (M.D.), KULeuven, Belgium	Summa cum Laude
1988	Master of Medical Sciences, KULeuven, Belgium	Summa cum Laude
1991	Ph.D. (Doctor in biomedical sciences), Title doctoral thesis: "Biosynthesis and expression of the human $\alpha_5\beta_1$ -integrin fibronectin receptor", KULeuven, Belgium	

Residencies and Research Fellowships

1985-1989 Research Assistant, National Fund For Scientific Research, Belgium
Center for Human Genetics, KULeuven
Laboratory for Cell Adhesion, Head: Prof. Dr. J.-J. Cassiman
1990-1995 Postdoctoral Assistant, National Fund For Scientific Research, Belgium
Center for Human Genetics, KULeuven
Laboratory of Experimental Genetics, Head: Prof. Dr. F. Van Leuven
1994-1995 Visiting Researcher at the EMBL
(Oct-April) European Molecular Biology Laboratory, Heidelberg, Germany
Laboratory of Prof. Dr. Carlos Dotti

Research Career

1985-1989 Research Assistant, National Fund For Scientific Research (NFWO), Belgium
Center for Human Genetics, KULeuven, Belgium
Laboratory of Cell Adhesion, Head: Prof. Dr. J.-J. Cassiman

1990-1995 Postdoctoral Assistant, National Fund For Scientific Research (NFWO), Belgium
 Center for Human Genetics, KULeuven, Belgium
 Laboratory of Experimental Genetics, Head: Prof. Dr. F. Van Leuven

1994-1995 Visiting Researcher at the EMBL
 (Oct-April) European Molecular Biology Laboratory, Heidelberg, Germany
 Laboratory of Prof. Dr. Carlos Dotti

1995-2000 Research leader, National Fund for Scientific Research (NFWO), Belgium
 (Oct-Oct) Center for Human Genetics, KULeuven, Belgium
 Laboratory of Experimental Genetics, Head: Prof. Dr. F. Van Leuven

1998-2002 Group leader, VIB, Belgium
 (Sept-Nov)

1996-1998 Assistant Professor (Docent, part-time), Faculty of Medicine, KULeuven, Belgium
 (Oct-Oct)

1998-2000 Senior Assistant Prof. (Hoofddocent, part-time), Faculty of Medicine, KULeuven,
 (Oct-Nov) Belgium

2000-2002 Professor (Hoogleraar, full-time), Faculty of Medicine, KULeuven, Belgium
 (Nov-Oct)

2002-2006 Assistant director of the Department of Molecular Genetics, VIB

Current positions

Oct. 2002 Full Professor in molecular medicine (Gewoon Hoogleraar), KULeuven
 June 2005 Head of the Department of Human Genetics, KULeuven
 Jan. 2007 Departmental director of the Department of Molecular and Developmental
 Genetics, VIB

Research activities

Research position Group leader of the Laboratory for the Research of Neurodegenerative
 Diseases

Research Areas We investigate mechanisms important to understand neurodegenerative
 disorders. The main focus is currently the secretases which are proteases that
 cleave the amyloid peptide from the amyloid precursor protein. The amyloid
 peptide is the main constituent of the plaques in the brain of patients with
 Alzheimer's Disease. The secretases are not only important drug targets, but
 they are also involved in the regulation of important signaling processes most
 notoriously Notch signaling. We use transgenic approaches in mice, primary
 cultures of neurons and biochemistry, sophisticated imaging and molecular
 biology to address our questions.

Publications The author's scientific output consists of more than 180 publications in
 international journals
 More than 10.750 citations

Homepage of the <http://med.kuleuven.be/cme-mg/Incb/index.html>
 laboratory

Teaching and education activities

Position

2002 - 2006 Program director for Biomedical Sciences

Courses

1997- now Seminars in Medical Research
0.50 year.hr; Medical School, KULeuven, Belgium

1998-2003 Ionising radiation – radiochemical aspects
0.50 year.hr; Medical School, KULeuven, Belgium

2001- now Molecular pathogenesis of Alzheimer's disease
0.30 year.hr; Medical School, KULeuven, Belgium

2005 Lectures for the 21st century: De ziekte van Alzheimer: hoop vanuit het fundamenteel wetenschappelijk onderzoek, KULeuven, Belgium

2008 Lectures for the 21st century: Alzheimer's disease: fundamental research paves the way for therapeutics, KULeuven, Belgium

PhD and Postdoc training (Promoter or co-promoter)

- An Herreman: 'Presenilins and nicastrin are components of the γ -secretase complex involved in APP and notch processing', November 24, 2003 (promoter)
- Omar Nyabi: 'Structural and functional repercussions of loss of function and clinical mutants of presenilin', March 23, 2005 (promoter)
- Jos Tournoy: 'Physiological study of Presenilins and BACEs, two proteases involved in the pathogenesis of Alzheimer's disease', March 20, 2006 (promoter)
- Maarten Leyssen: 'Axon growth, injury and regeneration in the fly brain', November 22, 2006 (co-promoter)
- Ira Espuny Camacho: 'Peroxisome Proliferator-Activated Receptor, a transcription factor regulating amyloid beta peptide clearance', October 5, 2007 (promoter)
- Els Marjaux: 'Looking for proteins modulating Beta-secretase activity', January 14, 2009 (promoter)
- Lutgarde Serneels: 'Differential biological contribution and functional properties of the three Aph1 genes to γ -secretase activity', March 3, 2009 (promoter)
- Alexandra Tolia: 'Structure-function analysis of Presenilin 1, the catalytic core of the gamma-secretase complex', April 29, 2009 (promoter)
- Thomas Tousseyn: 'The role of the disintegrin metalloproteases ADAM9 and ADAM10 in cell signalling and development', May 7, 2009 (promoter)
- Jérôme Vanbiervliet: 'Genetic ablation of APH1BC improves multiple Alzheimer's Disease phenotypes without disturbing notch signalling', June 22, 2009 (promoter)
- Bruno Bergmans: 'A Physiological Study of the Amyloid Precursor Protein: A Stem Cell Based Approach', September 23, 2009 (promoter)

- Tomasz Rudka: 'The function of the mitochondrial rhomboid', 14 October 2009 (promoter)

Scientific Awards

4 most important ones:

- **Potamkin Prize for Research in Pick's, Alzheimer's and related Diseases**, awarded by the American Academy of Neurology (2002)
- **Alois Alzheimer Award** awarded by the Deutscher Gesellschaft für Gerontopsychiatrie und psychotherapie (2003)
- **Joseph Maisin Price** for fundamental biomedical sciences, awarded by the FWO-Flanders every 5 years (2005)
- **Metlife Foundation Award** for medical research (2008)

Patents: 10

Invited speaker

>150 invitations over the last 5 years in Japan, USA, and Europe (including Gordon Conference, IBRO, Keystone, the bi-annually international Alzheimer's Disease and related disorders meeting, FEBS, ELSO, and the bi-annual Alzheimer's and Parkinson disease meeting)

Referee

- *Grants/Mail referee* for Fonds zur Förderung der wissenschaftlichen Forschung (Austria); Wellcome Trust (England); Human Frontiers Science Program; Alzheimer Forschung International; International Alzheimer's Association initial review board (USA), European Exchange Program of the Royal Society (England), Alzheimer Forschung Initiative (Germany), Internationale Alzheimer Stichting (Nederland), Alzheimer Society of Canada, European Molecular Biology Organisation (EMBO),
- Since 2001, member of the commission "Cell biology and Genetics" for the National Fund Scientific Research
- Membre du conseil scientifique de l'Institut Fédératif de Recherche Biomédicale en Neurosciences Cliniques et Expérimentales, Dir. JF. Dartigues, Bordeaux, France
- Member of the scientific advisory committee, Universität Zurich, Abteilung Für Psychiatrische Forschung, Dir. Prof. Dr. R. Nitsch, Zurich, Switzerland
- Mail referee for the promotion committee of the University of Maryland, Biotechnology Institute, USA,
- Ad hoc advise for the promotion committee of the University of Chicago, USA, of Harvard Medical School, Boston, USA, of the university of Zurich, Baylor College of Medicine, Houston, USA, of the Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland, of the Institut Pasteur, Paris, France, f Washington University, USA, 2003
- Member of the evaluation commission Biology, Faculty of Sciences, KULeuven: interpretation of profile job vacancy (22/2007) and associated education tasks; Belgium, March 26, April 16

- Expert for European Economical & Social Committee 'Internal Market, production and consumption, study group 'Science and technology' (2004).

-Reviewing of manuscripts for

Proceedings of the National Academy of Sciences, USA, Molecular Neurobiology, Journal of Neuroscience Research, Molecular Medicine, Tijdschrift voor Geneeskunde, J.of Neurochemistry, Biochemistry, EMBO J., J. Biol. Chemistry, Nature Cell Biology, Science, Nature, Brain Research, Neurosciences, Trends in Neurosciences, Journal of Alzheimer's Disease, Neuroscience Letters, Molecular and Cell Neuroscience, Eur. J. Cell Biology, Nature reviews Neuroscience, Nat. Med., J. Cell Biology, MCB, Annual Review of Cell and Developmental Biology, Neuron, American Journal of Pathology. J. of Neuroscience, Neurobiology of Disease, Molecular Cell, Cell., Nature Medicine, Disciplinary Onderzoekscentrum KULeuven.

- Member of the editorial board of

Biochemical and Biophysical Acta (BBA) (2000), the ELSO Gazette (2000), the Journal of Neurochemistry (2001/2002), Journal of Cell Science (2008), EMBO Molecular Medicine (2008-present), Cell Death and Disease (2009-present)

-Co-organisator of IPSEN Conference 'Notch from neurodevelopment to neurodegeneration: keeping the fate', Paris, 19/03/01

-Member of the international Program committee for the International Alzheimer's Disease and related disorders conference, Stockholm, 2002

-Member of the International Scientific Program Committee for the International Conference on 'Alzheimer's and Parkinson's Diseases: New perspectives'. Sevilla, 8-12 May 2003, Sorrento 2005, Salzburg 2007 and Prague 2009.

-Consulting for biotech and pharmaceutical companies world wide

Grants

- N.F.W.O. (1993, 1994, 1996).
- F.G.W.O. (1997 – 2001; 1998-2002, 2002-2006).
- Human Frontier of Science Program (1997 – 2000).
- Verkennende Internationale Samenwerking (VIS) K.U.Leuven (1997- 1999; 2000-2001).
- International Alzheimer's Research Foundation (1999-2000).
- K.U.Leuven: Interdisciplinaire Onderzoeksprogramma's (1999-2002).
- Bayer Alzheimer Research Network (BARN) (1999-2001).
- Flanders Institute for Biotechnology (1999-2005).
- DIADEM, grant from the European community, fifth program (2001-2004)
- APOPIS, grant from the European community, sixth program (2004-2007)
- International Alzheimer Association: Pioneer award (2002-2007)
- IUAP (2001-2006)
- GOA (2003-2008)
- BMS freedom to discover award (2005-2010)

Other

- Vice-president of Focus Research: The Belgian Association for the Advancement of Science (1987-1989), member of the council (1987 - 1993)
- Member of the Council of the Association for Scientific Staff of the University (V.A.R.) (1994 - 1996)
- Member of the Academic Council of the K.U. Leuven (1992 – 1995)