

Principal Investigator: [Full name and degree(s)]

## BIOGRAPHICAL SKETCH

### Complete for each professional associated with the project

Name: [Last, First, Middle Initial(s), Degree(s)] Baron-Van Evercooren Anne, PhD	Position/Title: Director of Research (DRE)
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### Education

[Begin with baccalaureate or other professional education and include postdoctoral training]

Institution and Location	Degree	Year Conferred	Field of Study
Ecole de la Sainte Trinité Catholic University of Louvain, Belgium	Bachelor Licence	1973 1977	Biology-Zoology
University of Liège, Belgium/PhD fellowship Neurobiology and Virology, NIH, MD, USA	PhD	1983	Medical and Experimental Sciences, Option Neurosciences
INSERM U134, Pitié-Salpêtrière Hospital, Paris, France	Post- Doctoral Fellow	1986	Neurobiology

### Research and Professional Experience

[List in chronological order, previous employment, experience and honors]

1986-1991 Staff scientist (INSERM CR1), INSERM U134, Paris/ INSERM U145, Nice  
1991-1996 Research Director (INSERM DR2), Team leader, INSERM U134, Paris  
1996-1997 Visiting Professor, Mount Sinai Hospital, Dept. Molecular Biology, New York, USA  
1997-2001 Research Director (INSERM DR2), Head of INSERM CJF 97-11 and Team leader, Paris  
2001-2004 Research Director (INSERM DR1), Head of INSERM UMRS546 and Team leader, Paris  
2005-2008 Research Director (INSERM DR1), Associate Director and Team leader UMRS546»  
Scientific coordinator of the Cell Biology Pole; Scientific coordinator of the Imaging Facility, IFR70, Salpêtrière, Paris.  
2009-present Research Director (INSERM DRE), co-Team leader « Approches Moléculaires et Cellulaires de la Remyélinisation, Scientific co-ordinator of the Imaging Facility on site, and Plateform Committee ICM. Co-coordinator of the Axis Development, Pathology and Repair until 2012, since coordinator of IHU-a-ICM WP8 on Animal models and, WP3 on MS, ICM-INSERM U 1127, DR Emeritus from 2017

**Teaching activities:** Master in Neuroscience, PECM1, DIU Neuropathology (Paris VI), Masters in Cell therapy (Créteil) and in Surgical Sciences, (Paris XI sud), postgraduate course Translational Research in Neurological Diseases: How to fill the gap between experimental and clinical research

**Scientific Councils:** 2007-2011, FP7 MYELINET COST Committee ; 2001-2010, Commission Avenir, INSERM; 2001-present, ELA Foundation Scientific Board; 2005-2015, Myelin Project scientific board; 2010-present, ENP Administration council; 2008- 2011, ENP selection Committee of PhD; 2012-present, ARSEP Scientific Committee; 1999-present: Organizing Committee « European Meeting on Gllai Cells in Health and Disease»; 2004-2011, President of the French Glial Club, present, Member of the Bureau; 1999-2011, ICM Advising Committee; 2009- present, ICM Team Council; 2013, Bureau of the ICM Platform Comity; 2005-2014, President of the scientific board of the Cell Imaging Facility Pitié-Salpêtrière.

Principal Investigator: [Full name and degree(s)]

**Honors and Awards:** 1979, Fellowship from the Kroc Foundation, USA; 1983, United States Department of Human and Health Services Honorarium, NIH, USA; 1984, Charles Ketelear Prize, Multiple Sclerosis Society, Belgium; 1985, Fellowship from the Fondation de la Recherche Médicale, France; 1996, Institut Electricité-Santé Award, France ; 2005, President-elect French Club of Glial Cells and organizer of EUROGLIA 2009 ; 2006-10, Contrat d'Interface INSERM- Hospital (in recognition of promotion of translational research) ; 2008, prix NRJ Institut de France ; 2009-2016 INSERM Excellency Awards; 2014, Royan Stem Cell Institute Regenerative Medicine Award, Iran.

**Scientific expertise :**

*Expertise of grant applications* for Multiple Sclerosis (ARSEP (FR); CMSS (CA); NMSS (USA); FISM (IT); MS (UK), The Myelin Project (USA), Wellcome Trust and MRC (UK), the European Leukodystrophy Foundation (ELA, FR). French foundations: Muscular diseases (AFM), Medical Research (FRM), Brain Research (FRC), Agence Nationale de la Recherche (ANR), French Ministry of Research.

**Boards, learned societies memberships:**

*Scientific Councils*, 2001-2009: Medical Faculty Pitié Salpêtrière ; 2001-present: ELA Foundation; 2005-présent: Myelin Project, 2005-2008: Research Co-ordination Committee, IFR 70 ; 2007- FP7 MYELINET COST Committee; 2001-2008 Commission Avenir, INSERM; 2008-present : Administration council of ENP; 2010-present : Organizing Committee of European Glial Cell Meeting; 2013 : ARSEP Foundation

*Reviewer* for: *Glia*, *Annals of Neurology*, *J. Neuroscience*, *FASEB*, *Journal of Neurochemistry*, *European Journal of Neuroscience*, *Journal of Neuroscience Research*, *Neurobiology of Disease*, *J. Neuroimmunology*, *Cell Transplantation*, *J. Mol. Biol.* *Nature Protocs*, *PNAS*.

*Reviewing Editor* of *J. Neurosci* and Editorial board of *GLIA*, *J. Neurosci*, *J.Neurosci Res*

*Consultancy*: Serono (SW), Shering (GE), Berlex (USA), Axo-Glia (Luxemburg), Novartis (Sw), Genzyme\_Sanofi (US).

**Selected publications over the last 3 years**

-M. Vidal , M. Maniglier, C. Deboux, C. Bachelin, V. Zujovic, and A. Baron-Van Evercooren (2015). Adult PNS stem/progenitor cells generate pericytes in presence of CNS developmental cues but remyelinating Schwann cells in response to CNS demyelination. **Stem Cell**. 33(6):2011-24 Mar 18. doi: 10.1002/stem.1997

- S. Mozafari, C. Laterza, D. Roussel, C. Bachelin, A. Marteyn, C. Deboux, G. Martino, and A. Baron-Van Evercooren (2015) Skin-derived neural precursors competitively generate functional myelin in adult demyelinated Mice. **J. Clin Invest** Sep1;125(9):3642-56

-A. Marteyn, N. Sarrazin, C. Bachelin, C. Deboux, M. D. Santin, V. Zujovic, A. Baron-Van Evercooren. (2016) Modulation of the innate immune response by human neural precursors prevails over oligodendrocyte progenitor remyelination to rescue a severe model of Pelizaeus-Merzbacher disease. **Stem Cells** 2016 Apr;34(4):984-96 (*Epub Ahead of Print, Dec 2015*).

-F Pourabdolhossein, S Gil-Perotín, P Garcia-Belda, A Dauphin, S Mozafari, V Tepavcevic, J Manuel Garcia Verdugo, A. Baron-Van Evercooren. (2017) Inflammatory Demyelination Induces Ependymal Modifications Concomitant to Activation of Adult (SVZ) Stem Cell Proliferation. **Glia** Feb 13. doi: 10.1002/glia.23124

-Ehrlich M, Mozafari S, Glatza M, Starost L, Velychko S, Hallmann AL, Cui QL, Schambach A, Kim KP, Bachelin C, Marteyn A, Hargus G, Johnson RM, Antel J, Sternecker J, Zaehres H, Schöler HR, Baron-Van Evercooren A, Kuhlmann T. (2017) Rapid and efficient generation of oligodendrocytes from human induced pluripotent stem cells using transcription factors. **Proc Natl Acad Sci U S A**. 2017 Feb 28. pii: 201614412. doi: 10.1073/pnas.1614412114

## Publications

(selected publications since 2011)

- G. Martino, Robin J.M. Franklin, Anne Baron Van Evercooren, Douglas A. Kerr, and The Stem Cells in Multiple Sclerosis (STEMS) Consensus Group5 (2010). Stem cell transplantation in multiple sclerosis : where we are and where we go. **Nature Neurol.** 2010 May;6(5):247-55. Epub 2010 Apr 20. Review
- Buchet D, Garcia C, Deboux C, Nait-Oumesmar B, Baron-Van Evercooren A (2011) Transplanted human neural progenitor cells from different foetal forebrain regions remyelinate the mouse demyelinated spinal cord. **Brain** Apr;134(Pt 4):1168-83
- V. Zujovic, J. Thibaud, C. Bachelin, M. Vidal, C. Deboux, F. Couplier, N Stadler, P. Charnay, P. Topilko and A. Baron-Van Evercooren (2011) Boundary cap cells are PNS stem cells that can be redirected into CNS lineages. **Proc. Natl. Acad. Sci., USA**, 28; 108(26):10714-9. Epub 2011 Jun 13, 2011
- V. Tepavcevic, F. Lazarini, C. Alfaro-Cervello, C. Kerninon, K. Yoshikawa, J. M. Garcia-Verdugo, P. M. Iledo, B. Nait-Oumesmar, A. Baron-Van Evercooren. Olfactory deficits following inflammation-induced subventricular zone dysfunction in a targeted mouse model of multiple sclerosis. **J. Clin Invest.** 121(12) :4722-34, Epub Nov7, 2011.
- Caillava C, Vandenbosch R, Jablonska B, Deboux C, Spigoni G, Gallo V, Malgrange B, Baron-Van Evercooren A (2011) Cdk2 loss accelerates precursor differentiation and remyelination in the adult central nervous system. **J Cell Biol** 193(2):397-407
- C. Caillava and A. Baron-Van Evercooren. (2012) Differential requirement of cyclin-dependent kinase 2 for oligodendrocyte progenitor cell proliferation and differentiation. **Cell Division**, 14 ;7(1) :14.
- C. Deboux, S. Ladraa, S. Cazaubon, S. Ghribi-Mallah, N. Weiss, N. Chaverot, P. O. Couraud and A. Baron-Van Evercooren (2013) Overexpression of CD44 in neural precursor cells improves trans- endothelial migration and facilitates their invasion of perivascular tissues in vivo. **PLoS One**
- Blanchard B, Heurtaux T, Garcia C., Moll N., Caillava C., Grandbarbe L., Klopstein A., Kerninon C., Frah M., Coowar D., Baron-Van Evercooren A., Morga E., Hueschling P., Nait-Oumesmar B. (2013) The tocopherol derivative TFA-12 promotes myelin repair in experimental models of multiple sclerosis. **J. Neurosci.** 33(28):11633-11642.
- M. Vidal , M. Maniglier, C. Deboux, C. Bachelin, V. Zujovic, and A. Baron-Van Evercooren (2015). Adult PNS stem/progenitor cells generate pericytes in presence of CNS developmental cues but remyelinating Schwann cells in response to CNS demyelination. **Stem Cell.** 33(6):2011-24 Mar 18. doi: 10.1002/stem.1997
- S. Mozafari, C. Laterza, D. Roussel, C. Bachelin, A. Marteyn, C. Deboux, G. Martino, and A. Baron-Van Evercooren (2015) Skin-derived neural precursors competitively generate functional myelin in adult demyelinated Mice. **J. Clin Invest** Sep1;125(9):3642-56
- A. Marteyn, N. Sarrazin, C. Bachelin, C. Deboux, M. D. Santin, V. Zujovic, A. Baron-Van Evercooren. (2016) Modulation of the innate immune response by human neural precursors prevails over oligodendrocyte progenitor remyelination to rescue a severe model of Pelizaeus-Merzbacher disease. **Stem Cells** 34(4):984-96 (Epub Ahead of Print, Dec 2015).
- A. Marteyn and A. Baron-Van Evercooren A (2016) Is involvement of inflammation underestimated in Pelizaeus-Merzbacher disease? **J Neurosci Res** 94(12):1572-1578. (Review)
- Erich M., Mozafari S., Glatza M., L. Starost, S. Velychko, Hallmann A.L , Cui Q-L, Antel J., Kim K-P, Hargus G., Marteyn A., Bachelin C., Schambach A., Sternerckert J., Zaehres H., Schöler H., Baron-Van Evercooren A., Kuhlman T (2017) Rapid and Efficient generation of oligodendrocytes from human induced pluripotent stem cells using transcription factors. **Proc Natl Acad Sci U S A** in Press
- F. Pourabdolhossein, S Gil-Perotín, P. Garcia-Belda, A. Dauphin, S. Mozafari, V. Tepavcevic, J. M Garcia Verdugo, A. Baron-Van Evercooren. (2017) Inflammatory Demyelination Induces Ependymal Modifications Concomitant to Activation of Adult (SVZ) Stem Cell Proliferation. **Glia** in Press.