

## CURRICULUM VITAE

Zoltán MOLNÁR

Born: 20 August 1964, Nagykörös, Hungary      Nationality: British / Hungarian  
Status: Married Dr Nadia Pollini (Swiss/Italian national) two children (Matyas 28/04/95; Thomas 08/09/98)  
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### Education and degrees

1989-1994      **D.Phil. Degree in Physiology**, Hertford College, University of Oxford  
Thesis: *Multiple Mechanisms in the Establishment of Thalamocortical Innervation*  
Supervisor: Prof. Sir Colin Blakemore FRS  
1988-1989      Soros - Hungarian Academy of Sciences Visiting Scholar, Hertford College and  
University Laboratory of Physiology, University of Oxford  
1982-1988      **Doctor of Medicine** (*summa cum laude*), A. Szent-Györgyi Medical University, Szeged, Hungary  
1988      American Foreign Medical Graduate Examination in Medical Sciences  
1978-1982      **Baccalauréat**, Nagykörösi Arany János Gimnázium, Nagykörös, Hungary (Average mark: 5.00)

### Appointments

2007-present      **Professor of Developmental Neuroscience**, Department of Physiology, Anatomy and Genetics,  
University of Oxford  
2000-2007      **University Lecturer**, Department of Human Anatomy and Genetics, University of Oxford  
(Appointed until the age of retirement in 2005)  
**Tutor in Human Anatomy**, St John's College, Oxford  
1998-1999      **Premier assistant, Médecine**, Institut de Biologie Cellulaire et de Morphologie, Université de  
Lausanne, Rue du Bugnon 9, 1005 Lausanne, Switzerland  
1997-1998      MRC Postdoctoral Fellow, University Laboratory of Physiology, Oxford  
1994-1997      **MRC Research Training Fellow**, University Laboratory of Physiology, Oxford  
1992-1995      **Junior Research Fellow**, Merton College, Oxford  
1990-1992      **Baring Senior Scholar**, Hertford College, Oxford  
**Wellcome Trust Research Assistant**, University Laboratory of Physiology, Oxford  
1989-1990      **Soros - Hungarian Academy of Sciences Scholar**, Hertford College, Oxford  
1988-1989      **Resident in Neurological Surgery**, Albert Szent-Györgyi Medical University, Szeged, Hungary

### Administrative appointments

2016-2019      'Visitor' of History of Science Museum, University of Oxford  
2015-      Member of **Neurosciences and Mental Health Board**, Medical Research Council, UK  
2015-      Elected **Councilor, Anatomical Society**  
2013-2014      **Deputy Head of Department** of Physiology, Anatomy and Genetics, Oxford  
2010-2013      Member of Oxford McGill Neuroscience Collaboration Committee  
2014-present      **Member of the Neuroscience Strategic Oversight Committee, University of Oxford**  
2011-2014      Member of the Neuroscience Management Board, University of Oxford.  
2010-present      **Member of the MSC in Neurosciences Management Board**, University of Oxford  
2011-present      Management Committee Department of Physiology, Anatomy and Genetics, University of Oxford  
2002-2004      **Director of Graduate Studies**, Department of Human Anatomy and Genetics, Oxford

### College Offices Held

2013-2014      **Vice President** of St John's College, Oxford  
2006-14 & 15-pres.      **Sport Officer**, St John's College  
2001-2006      **Dean for Degrees**, St John's College, Oxford  
2000-present      **Member of Governing Body of St John's College**, Oxford  
1994-1995      **Junior Dean**, Merton College, Oxford

### Awards and prizes

2015      **Allan & Maria Myers International Visiting Fellowship**, The Florey Institute of Neuroscience and Mental  
Health, University of Melbourne, Melbourne, Australia  
2012      Elected **Member of "Circle of Willis"** Association of medical teachers at Oxford  
2010      Medical Sciences **Teaching Excellence Award**, University of Oxford  
2006      Elected **Member of "Bundle of His"** Association of medical teachers at Oxford

- 1999 **Krieg Cortical Kudos Cortical Explorer Prize** of the American Anatomical Society's Cajal Club  
 1995 Biennial **Rolleston Memorial Prize of Oxford and Cambridge Universities** for 1994-1995 (given for the best DPhil thesis)  
 1990-1992 Hertford College **Baring Senior Scholarship**, University of Oxford  
 1990-1993 Overseas Research Studentship, British Council  
 1988 The **István Apáthy Medal** of the Albert Szent-Györgyi Medical University, Szeged, Hungary  
 1984-1987 Hungarian People's Republic Stipendium (awarded three times)  
 1981 The 1981 **Arany János Prize** of the Arany János Gimnázium, Nagykörös, Hungary

#### *Grants and fellowships administered*

- 2016-2018 **St John's College Research Centre Grant**: Mapping cortex evolution through mathematical modelling, with Philip Maini, and Thomas Woolley. (£100K)  
 2016-2018 **MRC ZIKA Rapid Response Grant**. Cellular mechanisms of microcephaly due to Zika virus infection in mice (with P. Garces, R. Lent, F. Toval Moll, and H. Stolp) (£90K)  
 2016-2019 **MRC Project Grant**, Neurosecretory role of subcortical plate neurons in cortical development (£800K)  
 2014-2016 **Fondation Philippe Wiener – Maurice ANSPACH Foundation Grant**: Role of the DMRT5 Transcription Factor in the Development of the Earliest Cortical Circuits (Joint grant with Prof Eric Bellefroid, Université Libre de Bruxelles). ZM's part is £51.5K for two years.  
 2011-2014 **BBSRC Project Grant (BB/I021833/1)**; Development of the Layer 5 Pyramidal Neuron Subgroup Expressing Er81) £650K  
 2011-2013 **Wellcome Trust Project Grant** (jointly with Dr Damion Young) Historical Slide Repository (Sherrington and Le Gros Clark). £200K <https://learntech.imsu.ox.ac.uk/historyofmedsci/>  
 2010-2015 **Wellcome Trust Program Grant (092071/Z/10/Z)**: "The role of the KIAA0319 protein in neuro-development" co-lead applicant with Prof AP Monaco & Dr A Velayos-Baeza. £1.4M  
 2010-2015 **MRC Program Grant (G00900901)** "Formation of the earliest circuits in the cerebral cortex". Joint grant with Professor Ole Paulsen, University of Cambridge, £1.5M.  
 2009-2012 **NEUROBID FP7-HEALTH-2009 No:241778** – "Neuroscience on Barriers in Development"  
 2007-2010 **MRC Project Grant (G0700377)** Molecular and cellular characterisation of the mammalian subplate neurons in collaboration with Kay Davies, £650K  
 2007-2010 The roles of non-coding and protein-coding genes in the evolutionary expansion of the cerebral cortex (**BBSRC Proj Grant BB/F003285/1**– in collaboration with K. Davies & C. Ponting) £600K  
 2003-2009 **MRC Career Establishment Award (640K) Ref: G0300200**, Grant ID: 65860  
 Title: Thalamocortical interactions during development  
 2001-2004 Research Grant from the **Human Frontiers Science Program Organization** (Coordinator of \$250K/year for 3 years for 4 groups)  
 2001-2004 **Wellcome Trust Research Proj Grant** (Development of Thalamocortical Connections) £108K  
 2000 Royal Society Research Grant (574006.G503/21767/SM, £10K)  
 2000-2003 **European Commission-Biomed Grant (QLRT-1999-30158; 280K €)**  
 1999-2002 **Fonds National Suisse Project Grant** (260K SFR for 3 years)  
 1994-1997 **MRC Research Training Fellowship**, University Laboratory of Physiology, Oxford

#### *Short-term visits, fellowships and collaborative trips*

- 2015/6 Allan & Maria Myers International Visiting Fellowship, The Florey Institute of Neuroscience and Mental Health, University of Melbourne, Melbourne, Australia  
 2014 Harvard Stem Cell Institute, Bauer Laboratory, Harvard University, Boston, USA  
 2013 Department of Neurology and Neurosurgery, McGill University, Montreal, Canada  
 2007 UCLA Semel Institute for Neuroscience, Neuroscience Research Building, Los Angeles  
 2006 Howard Florey Institute of Experimental medicine, Univ. of Melbourne, Australia  
 2004 Université de Paris, Paris, France  
 2001 Equipe Régionalisation Nerveuse (CNRS UMR 8542), Ecole Normale Supérieure, Paris  
 2001 IST c/o CBA Advanced Biotechnology Center, Genova, Italy  
 2001 Dept of Neurosci, University of New Mexico Health Sciences Center, Albuquerque, New Mexico USA  
 1998 McDonnell-Pew Centre for Neurosci Fellow to Center for Neurosci, University California, Davis, USA  
 1996 CIBA Foundation Fellowship, University of California, Davis, USA  
 1995 Royal Society Fellowship, Department of Physiology, Kyoto Prefectural Medical University, Japan  
 1995 CIBA Foundation Fellowship, The University of Queensland, Brisbane, Australia  
 1993 British Council & Japanese Soc for the Promotion of Sci Fellow, Kyoto Prefectural Medical Univ, Japan  
 1992 Japanese Soc for the Promotion of Sci Fellowship, Dept of Physiol, Kyoto Prefectural Medical Univ, Japan

#### *Collaborations*

**HFSP Consortium**, supported from a Research Grant from the Human Frontiers Science Program Organization (2002-2005, **coordinator** Dr Z. Molnar):

Etienne Audinat, Ecole Supérieure de Physique et Chimie Industrielles, Paris, France; Nobuhiko Yamamoto, University of Osaka, Osaka, Japan; Daniel Lavery, Purdue Pharma LP, Cranbury NJ, USA

**Members of the EU Consortium on Cortical Development (CONCORDE)**

Previously supported by European Commission-Biomed Grant (QLRT-1999-30158) - 2000-2004

André Goffinet (Brussels) Colette Dehay and Henry Kennedy (Lyon), Christine Métin (Paris), Egbert Welker (Lausanne), Michael Frotcher (Freiburg), Anastassia Stoykova (Goettingen), Antonello Mallamaci (Milan), Gundela Meyer (La Laguna), David Price (Edinburgh); John Parnavelas (London).

### **Publishing**

**Section editor of The European Journal of Neuroscience** (Developmental Neurobiology) 2002-2008

#### **Board member:**

Cerebral Cortex, Journal of Comparative Neurology, Journal of Anatomy, Brain Structure and Function, Faculty of 1000, Journal Anatomy and Embryology, Frontiers of Neurogenesis, Frontiers of Neuroanatomy, Frontiers of Cellular Neuroscience.

#### **Ad hoc reviewer for over 30 Journals**

**Reviewer for Commissioning** by Oxford University Press, Springer, NY, Garland Science, Taylor and Francis Group

### **Work for Granting Agencies**

#### **Panel member of granting agencies**

Board Member of **MRC Neuroscience and Mental Health Board** (2015-2018)

Member of **MRC ZIKA Rapid Response Panel** 2016 March

Research Frontiers Programme Science Foundation Ireland (panel 2004, 2006; 2008, 2009)

Inserm and ANR: Neurosciences, neurology and psychiatry (on panel 2006 and 2007)

#### **Ad hoc reviewer for over 15 granting agencies**

### **Involvement in the organization of scientific conferences (selection)**

- 2018 Chair of Cortical Development, **Anatomical Society Summer Meeting**, Oxford
- 2017 Co-Chair (with Kriegstein A) the 2017 **Brain Conference on “Cortical Evolution and Development”** organised by FENS in collaboration with The Brain Prize. Copenhagen, Denmark
- 2017 **Cortical Development** (Stem Cells, Neurogenesis, Neuronal Differentiation, Migration, Neural circuit formation) with A.R. Kriegstein, G. Fishell, J. Parnavelas (Greece)
- 2015 **IBRO 9<sup>th</sup> World Congress**, Symposium 8 – Evolution of cerebral cortical development (Chair), Rio de Janeiro
- 2014 **Cortical Development** (Stem Cells, Neurogenesis, Neuronal Differentiation, Migration, Neural circuit formation) with A.R. Kriegstein, J. Parnavelas and G. Fishell (Greece)
- 2014 Chair - Symposium on ‘Early cortical circuits’ on **FENS Forum** Milan, 2014
- 2013 Session Chair, 7<sup>th</sup> **European Conference on Comparative Neurology**, Budapest, Hungary
- 2011 Co-Chair with Pasko Rakic (Yale University, USA) - **FENS-IBRO European Neuroscience Schools**, Bertinoro
- 2010 Co-Chair (with G. Clowry) **Anatomical Society Winter Meeting**, St Anne’s College, Oxford
- 2009 International meeting on ‘Construction and reconstruction of the brain’. Awaji Yumebutai, October 8-10, Japan (co-organised with Nobuhiko Yamamoto and Fujio Murakami)
- 2007 **Novartis Foundation Symposium** Proposer on *Genes of brain developmental disorders*, London  
Member of Scientific Committee **5<sup>th</sup> European Conference on Comparative Neurobiology**, Paris  
Session proposal and chair for **IBRO Meeting**, Melbourne, Australia  
Session proposal and chair on **BNA Meeting**, Harrogate, UK
- 2005 Member of the Scientific Program Committee of the **7<sup>th</sup> Neurochemistry Winter Conference**, Sölden, Austria (jointly with Professors Brose, Saria, Schwarzacher, Zernig)  
Co-org Neuronal Cell Diff. Meeting, Osaka Japan (jointly with N. Yamamoto and E. Audinat)
- 2004 Host of the **4<sup>th</sup> European Conference on Comparative Neurobiology**, St John’s College, Oxford  
Co-organizer (with Makato Sato) session on: “Molecular and Cellular Principles of Cerebral Cortical Development” on the Anatomical Science Meeting: From Gene to Body, Kyoto, Japan
- 2003 Co-organizer (with R. Erzurumlu and W. Guido) of “Development and Plasticity in Sensory Thalamus and Cortex” **Satellite to the Society for Neuroscience Meeting** at New Orleans
- 2001 Organiser of the Oxford Meeting of the European Consortium on Cortical Development
- 2001 Organiser of the Human Frontiers Science Program Consortium Meeting
- 2000 **Symposium** Organiser (jointly with Prof. George Benedek) on the Joint Meeting of the **British and Hungarian Physiological Societies**, Budapest, Hungary
- 1999 **Novartis Foundation Symposium Proposer** on *Evolutionary Developmental Biology of Brain*, London
- 1998 **FENS Symposium** organizer (jointly with Prof André Goffinet) on "Evolution of Brain Development"

### **Lectures and seminars (selection from last 5 years)**

- 2018 **Gordon Research Conference**, Thalamocortical Interactions, Il Ciocco, Italy
- 2017 Symposium Speaker on **FENS Regional Meeting** “Wired to be Human”, Pécs, Hungary  
**FENS-Brain Prize Brain Conference** on “Cortical Evolution and Development”, Copenhagen, Denmark
- 2016 **9<sup>th</sup> European Conference of Comparative Neurology**, Munich, Germany  
**Peter Thorogood Memorial Lecture**, 28<sup>th</sup> Head Group Meeting, UCL, London
- 2015 **Myers Lecture**, Newman College and Florey Institute, University of Melbourne, Melbourne, Australia  
The **2015 Oxford Brain Awareness Lecture** at History of Science Museum, University of Oxford  
Max Planck Institute for Brain Research, Frankfurt am Main, Germany; New York University, NY, USA
- 2014 Harvard Stem Cell Institute, Bauer Laboratory, Harvard University, Boston, USA  
Charité – Universitätsmedizin Berlin, Germany

- 2013 The Hotchkiss Brain Institute Lecture, University of Calgary, Calgary, Canada  
**Keynote speaker on MITT (Hungarian Neuroscience Society) 2013 Meeting, Budapest**
- 2012 **Keynote speaker, 7<sup>th</sup> European Conference on Comparative Neurobiology, Budapest**  
**Keynote speaker: 8th Hershey Conference on Developmental Brain Injury, Latimer Place, UK**  
Grete Lundbeck European Brain Research Foundation - Annual meeting, Sønderborg Denmark
- 2011 **Presidential Plenary Address** at The 13th Ann Meeting of IBANG, Rome, Italy