

## CURRICULUM VITAE – Carina Mallard

### CARINA MALLARD

Professor & HoD Core Facilities  
Institute of Neuroscience and Physiology  
Sahlgrenska Academy  
University of Gothenburg  
Sweden



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### ACADEMIC APPOINTMENTS

2018 -	Head of Core Facilities	University of Gothenburg
2015 - 2020	Visiting Professor	Kings College London
2006 -	Professor	University of Gothenburg
2005 - 2006	Lecturer	University of Gothenburg
2003 - 2005	Research Fellow	University of Gothenburg
1999 - 2002	Associate Professor	University of Gothenburg

### EDUCATION

2002	Docent, Physiology	University of Gothenburg
1995	PhD, Pediatrics	University of Auckland Supervisor Professor Sir Peter Gluckman
1987	BSc, Physiology	University of Lund, Sweden

### POST-DOCTORAL TRAINING

1996 -1998	Anatomy & Cell Biology	University of Melbourne Mentor Dr. Sandra Rees
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### PROFESSIONAL DEVELOPMENT, UNIVERSITY OF GOTHENBURG (1 ECTS = 1 week)

2018-2019	Leadership Program (CUP) 12-day residential course
2014	Management in Postgraduate Education (HPE202), 5.0 ECTS
2009	Project Management, 7.5 ECTS
2005	Postgraduate Program Management, 5.0 ECTS
2002	Supervision in Postgraduate Program, 1.5 ECTS
2000	Teaching and Learning in Higher Education, 1.0 ECTS

### SUPERVISION OF PHD STUDENTS, GRADUATED

2021	Aura Zelco: Characterization of immune cell profiles in meninges and parenchyma following injury in the developing mouse brain
2020	Juan Rodriguez: Targeting apoptosis-inducing factor as a novel therapeutic strategy for preventing perinatal brain injury
2018	Gabriella Koning: Magnesium preconditioning in the neonatal brain
2017	Amin Mottahedin: The developing brain and systemic inflammation: a Toll-like link with consequences
2016	Anna-Maj Albertsson: The role of neonatal immunity in preterm brain injury
2015	Veronika Golubinskaya: Bestrophin-3: Localization and function in normal and

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- injured tissues
- 2014 Peter Smith: Central and systemic inflammation in developmental brain injury
- 2011 Sofia Blad: Fetal reactivity assessment during intrapartum stress by analysis of the fetal ECG signal
- 2011 Ylva Carlsson: Apoptotic mechanisms in the neonatal brain following hypoxia-ischemia
- 2011 Linnea Stridh: Inflammation in the immature brain: The role of toll-like receptors
- 2010 Katarina Järlestedt: Inflammation and cell proliferation following perinatal brain injury
- 2008 Pernilla Svedin: Inflammation and neuroprotective strategies in the immature brain after hypoxic-ischemic brain injury
- 2005 Anna-Karin Welin: Pathophysiology of intrauterine asphyxia
- 2005 Malin Gustavsson: Tolerance and injury mechanisms in the developing CNS
- 2004 Saskia Eklind: The role of bacterial endotoxin in the immature brain
- 2004 Katarina Gustafsson-Brywe: Protection of the developing brain with trophic factors: Signaling through serine/Threonine kinase pathways
- 2004 Maj Hedtjärn: Inflammatory response in the immature brain after hypoxia-ischemia

### **SUPERVISION OF INTERNATIONAL PHD STUDENTS, GRADUATED**

- 2020 Dr. Takuya Kawamura, Obstetrics, Mie University, Japan, under the co-direction of Dr Tomoaki Ikeda
- 2014 Ms. Idoia Lara Celador, Universidad País Vasco, Spain under the direction of Dr. Enrique Hilario and Dr. Antonia Alvarez
- 2013 Mr. Syam B. Nair, National Institute of Technology Calicut, Swedish Institute Guest Scholarship Program

### **CURRENT SUPERVISION PHD STUDENTS (EXPECTED DISSERTATION DATE/SUBJECT)**

Giacomo Gravina (2022, Physiology, main supervisor); Maria Hammarlund (2022, Physiology, co-supervisor); Axel Andersson (2022, Physiology, co-supervisor)

### **POSTDOCTORAL STUDENT MENTORING**

- 2017 - Dr Tetyana Chumak, Prague University, Czech Republic (funded by NIH)
- 2017 - Dr Maryam Ardalan, Århus University, Denmark (funded by Lundbeck Foundation)
- 2016 - Dr Veronika Golubinskaya, University of Gothenburg (funded by Sahlgrenska Hospital)
- 2017 - 2020 Dr Gagandeep Mallah, Auckland University, New Zealand, now at Astra Zeneca, Gothenburg
- 2017 - 2019 Dr Rozita Anderberg, University of Gothenburg
- 2015 - 2019 Dr Jacqueline Lai, University of British Columbia, Canada, now own Educational company, Canada
- 2015 - 2016 Dr Massimo Muratore, University of Edinburgh, UK, now Researcher at University of Gothenburg
- 2015 - 2016 Dr Peter Smith, University of Gothenburg, now at Astra Zeneca, Gothenburg
- 2013 - 2016 Dr Syam Nair, National Institute of Technology Calicut, Kerala, India, now Research Fellow at University of Gothenburg

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- 2012 - 2014 Dr Nina Erkenstam, University of Gothenburg, now at Gothia Forum  
2010 - 2014 Dr Barbara D'Angelo, L'Aquila University, Italy, now Uni of Pittsburgh  
2012 - 2014 Dr Anna Wolf, University of Gothenburg  
2010 - 2013 Dr Joakim Ek, Melbourne, Australia, now Lecturer, University of Gothenburg  
2009 - 2011 Dr Fernando Correa, Spain, now Lecturer, Argentina  
2009 - 2011 Dr Hayde Bolouri, Gothenburg University, now CEO at Biomed Scientia, Sweden  
2009 - 2011 Dr Bobbi Fleiss, Melbourne, Australia, now Researcher at RMIT, Melbourne  
2007 - 2009 Dr Justin Dean, Auckland, New Zealand, now Associate Professor, Auckland, New Zealand  
2006 - 2008 Dr Catherine Rousset, Tour, France, now at KCL, London

### SUPERVISION OF MASTERS THESIS

- 2017 Alexandra Quist: The effect of systemic inflammation on the glial plasticity of developing hippocampus, Medicine program, Sahlgrenska Academy  
2017 Carl-Johan Mohn: Effect of Toll-like receptor 2 suppression on mitochondrial respiration and hypoxic-ischemic injury in the developing brain, Medicine program, Sahlgrenska Academy, 30 ECTS  
2016 Moshtak Karma: Nanoparticle-based therapy for neonatal hypoxia-ischemia, Medicine program, Sahlgrenska Academy, 30 ECTS  
2014 Malin Pasanen: Effects of immunomodulating peptides in TLR3-induced brain injury, Pharmacy, Sahlgrenska Academy  
2013 Carl Bergh: The neuroprotective role of Nrf2 in perinatal brain injury, Medicine program, Sahlgrenska Academy  
2012 Luqi Duan: The role of Staphylococcus epidermidis in the newborn brain, Zhengzhou University, China, 1 year exchange project  
2012 Linda Pettersson: Effects of TLR2 activation on the brain, Pharmacy, Sahlgrenska Academy  
2012 Lili Qiao: Mechanisms of perinatal white matter injury, Fudan University, Shanghai, 1 year exchange project  
2011 Lovisa Lansing: Microglia phenotype following hypoxic-ischemic injury in the newborn brain, Pharmacy, Linköping University, 20 weeks  
2009 Patric Resare: Microglia phenotyping, Biomedicine Program, University of Uppsala, 20 weeks  
2009 Xiaonan Du: Role of TLR2 in Staphylococcus epidermidis infection, Third Affiliated Hospital of Zhengzhou University, China, 1 year exchange project  
2006 Josefin Caous: The Effect of MMP-9 Knock-Out on Inflammation in Neonatal Mice Brain Damage after Hypoxia-Ischemia, Medicine Program, Sahlgrenska Academy, 20 ECTS  
2005 Kajsa Larsson: The effect of melatonin on proliferating cells after intrauterine asphyxia, Sahlgrenska Academy, 20 weeks  
2005 Parzhin Tahir: The role of MyD88 adapter molecule in neonatal hypoxic-ischemic brain injury, Pharmacy, Sahlgrenska Academy, 30 ECTS  
2004 Emma Beijer: Expression of TLR-4 in term and first trimester human placenta, Summer School, University of Gothenburg  
2002 Pernilla Arvidsson: Effects of IL-18 on white matter in immature mouse

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- 2002 brain after hypoxia-ischemia, Biomedical Science, exam project, 30 ECTS  
Anna Lindblom: Formation of free radicals in the immature brain during asphyxia in the fetal sheep, Biomedical Laboratory Science, Exam project, 30 ECTS
- 2001 Joanna Kaim: Detection of HSV-2, IL-18, caspase-1 and microglia in the genital tract and central nervous system of mice after genital herpes infection, Pharmacy, Sahlgrenska Academy, 30 ECTS
- 2001 Elisabet Nielsen: Effects of endotoxin induced damage on the immature brain, Pharmacy Summer School, 7.5 ECTS
- 2000 Marie Becker: Endotoxin increases hypoxia-ischemia induced injury in the immature brain: the role of glucose and cytokines, Medicine Program, 30 ECTS
- 1997 Jhodie Duncan: Cerebral blood flow in the hypoxemic fetal sheep, Department of Anatomy and Cell Biology, University of Melbourne, Australia. Honours project
- 1997 Alison Rehn: Effect of IUGR on the hippocampus, Dept. of Anatomy and Cell Biology, University of Melbourne, Australia, Honours project

### **SUPERVISION OF INTERNATIONAL MASTERS THESIS, PROGRAM IN MEDICINE**

- 2020 Charlotte Andersson, RMIT, Melbourne
- 2020 Mia Larusson, RMIT, Melbourne
- 2017 Anna Allen, University of Auckland
- 2017 Elsa Lappalainen, Monash University
- 2016 Nidi Matin, Monash University
- 2015 Johanna Milding, University of Auckland
- 2015 Marcus Svensson, University of Auckland
- 2015 Johan Karlsson, University of Auckland

### **ERASMUS STUDENTS, SUPERVISION**

- 2017 Audrey Maisson, Lyon, France
- 2016 Perinne Faure, UCB Lyon, France
- 2016 Aura Zelco, Trieste, Italy

### **SERVICE**

#### **Service to the Institute of Neuroscience and Physiology**

- 2006 – 2010 Study Director of postgraduate training at Dept. Neuroscience and Physiology, Management of ca 200 PhD students
- 2006 – 2010 Chair, Department research and postgraduate committee (FUU)
- 2002 – 2016 Teaching management in Dental, Dieticians and Pharmacy Program
- 2002 – 2005 Teaching management, Course Director, Anatomy and Physiology (15 ECTS), Biomedical Laboratory Science Program
- 2002 – 2005 Teaching management, Seminar coordinator, Dept. of Physiology

#### **Service to the Medical School, Sahlgrenska Academy (SA), University of Gothenburg**

- 2016 - 2020 Co-director, Experimental Biomedicine, University of Gothenburg
- 2016 Consultative assembly in the recruitment of vice-chancellor and deputy

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- 2016 vice-chancellor, University of Gothenburg  
Organizer, International Teacher Mobility, Incoming Professor Zena Vexler, UCSF, USA
- 2015 - 2021 Scientific committee for Academy PhD positions, SA, (Chair 2021)
- 2011 - 2015 Scientific committee, Mary von Sydow stipends for medical students, SA
- 2011 - 2015 Management postgraduate studies, Overall Study Director at SA (Studierektor), management of ca 1200 PhD students
- 2011 - 2015 Chair, Sahlgrenska Academy Board for PhD courses (FUK)
- 2005 – 2010 Chair, Experimental Biomedicine Research Committee, SA
- 2005 – 2010 Council for Research Education (FUR)

### Service to the Profession – National

- 2021 - National Science for Life Laboratory, Scientific Committee
- 2020 - Swedish Research Infrastructure Council (VR-RFI)
- 2016 - 2020 Chair, Study section for Swedish Research Council (VR-Beredningsgrupp)
- 2016 Organizer international conference on “Perinatal Brain Injury: mechanisms, consequences and treatments”, 120 participants from Europe, USA, Canada, China, Australia and New Zealand
- 2014 - 2017 Scientific Committee, Swedish governmental grants in public health (LUA/ALF)
- 2014 - 2015 Scientific Committee, Swedish Research Council
- 2009 – 2014 Scientific Committee, Pediatric Foundation
- 2004 – 2010 Swedish National Animal Ethics Board, Swedish Research Council

### Service to the Profession – International

- 2020 ERC Synergy grants, European Union
- 2019 Chiesi, Advisory Board, Italy
- 2018 International review Telethon Kids Institute, Perth, Australia
- 2017 The Portuguese Foundation for Science and Technology (FCT), invited international panel, Portugal
- 2017 Italian Medicines Agency, proposals for clinical research, Italy
- 2016 NINDS Workshop on Translational Stroke Research: Vision and Opportunities, Invited Panel, NIH, Bethesda, USA
- 2015 The Portuguese Foundation for Science and Technology (FCT), invited international Special Complaints Reviewer, Portugal
- 2015 ERA-NET NEURON, invited Peer Review Panel, European Union
- 2015 NHLBI Perinatal Stroke Workshop, Invited Panel, NIH, Bethesda, USA
- 2013 The Portuguese Foundation for Science and Technology (FCT), invited international panel, Portugal
- 2012 TV3 Marató Call, Spain, invited international panel, Spain
- 2011 - Assistant Editor, Developmental Neuroscience
- 2010 - 2016 Editorial board, Neuropharmacology
- 2005 - Board member, Fetal and Neonatal Physiological Society

### Research grant and academic collegial reviews

- 2021 For the position of Docent, University of Lund, Sweden
- 2019 For the position of Professor, University of Lund, Sweden
- 2017 NHMRC program grant, Australia
- 2016 Israel Science Foundation

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- 2016 For position of Lecturer, University of Örebro, Sweden
- 2015 For the position of Tenure Associate Professor, Pediatrics, EMORY University, USA
- 2015 National Science Centre, Poland
- 2013 For the position of Professor of Obstetrics and Gynecology with tenure, University of Texas Health Science Center, USA
- 2013 Auckland Medical Research Foundation
- 2013 For the position of Docent in Neuroscience, Karolinska Institute, Sweden
- 2013 For the position of Researcher, Wilhelm Research Fund, The Netherlands
- 2013 National Children’s Research Centre, Dublin, Ireland
- 2012 Auckland Medical Research Foundation
- 2012 For the position of Principle Research Associate, Pathology, Harvard Medical School, USA
- 2011 For the position of NHMRC Research Fellowship, Australia
- 2008 For the position of Docent, Molecular Medicine, University of Lund, Sweden

### **Faculty Opponent/External Examiner of PhD thesis**

- 2015 Effects of high-dose caffeine on the cerebrum of the immature ovine brain, Anzari Atik, Monash University, Australia
- 2014 Identification, mechanisms and treatment of perinatal brain injury, Paul Drury, University of Auckland
- 2014 The role of MAP kinase cascade in neonatal brain response to hypoxia-ischemia insult, Laura Thei, University College London, UK
- 2011 Therapeutic hypothermia and its effects on the preterm fetal sheep, Robert Barrett, University of Auckland
- 2011 Hypothermia and room air resuscitation in NT2-N neurons, immature rats and newborn pigs, Marit Dalen, University of Oslo
- 2010 A role for growth hormone in neurorestoration and neurogenic processes in the brain, Praneeti Pathipati, University of Auckland
- 2003 Cell death and synaptic remodeling as a consequence of perinatal asphyxia, Wilma van deBerg, University Hospital, Maastricht

## **RESEARCH**

### **Invited speaker at international meetings since 2010**

- 2021 Dean’s Lecture Series (Virtual), University Hospital Essen, Germany
- 2019 Ritchie Centre 50th Year Anniversary Colloquium, Melbourne, Australia
- 2019 European Neonatal Brain Club, Berlin, Germany
- 2019 7th Shanghai Neonatal Forum, Shanghai, China
- 2019 XXIXth International Symposium on Cerebral Blood Flow, Metabolism and Function (BRAIN & PET), Yokohama, Japan
- 2018 The 2nd International Cerebral Palsy Genomics Consortium Conference, Zhengzhou, China
- 2018 European Workshop on Fetal Growth Restriction, Prato, Italy
- 2018 AIS Visiting Speaker Award, Auckland University, Auckland, NZ
- 2018 AIS Visiting Speaker Award, King Edward Memorial Hospital for Women & Curtin University, Perth, Australia

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- 2017 AIS Visiting Speaker Award, The Women's and Children's Hospital, Adelaide
- 2017 Women Leaders in Science, Technology and Engineering, the State of Kuwait
- 2017 44<sup>th</sup> Fetal and Neonatal Physiological Society meeting, Osaka, Japan
- 2017 European Neonatal Brain Club, Edinburgh, UK
- 2017 The Perinatal Society of Australia and New Zealand, Canberra, Australia
- 2017 6<sup>th</sup> Shanghai Neonatal Forum, Shanghai, China
- 2016 Fetal and Neonatal Physiological Society, Cambridge, UK
- 2015 Perinatal Stroke Workshop, NIH, Bethesda, Maryland, USA
- 2015 43rd, European Teratology Society Annual, Amsterdam, The Netherlands
- 2014 The Association for Applied Human Pharmacology (AGAH), Munich, Germany
- 2014 European Workshop on Neonatal Transition, Prato, Italy
- 2014 42nd Conference of the European Teratology Society, Hamburg, Germany
- 2014 MRC Centre for Reproductive Health, Univ. of Edinburgh, UK
- 2014 Obstetrics/Neonatology, Johns Hopkins, Baltimore, USA
- 2013 Fetal Physiology workshop, University of Auckland, New Zealand
- 2013 Pediatric Academic Society, Washington, USA (2 plenary lectures)
- 2013 4th Shanghai Neonatal Forum, Shanghai, China
- 2012 8th Hershey Conference on Developmental Brain Injury, London, UK
- 2011 8th IIMA 6th World Conference, Sharjah, United Arab Emirates
- 2011 NEUROBID, Salzburg, Austria
- 2010 European Academy of Paediatric Societies, Copenhagen, Denmark

### Awards and Fellowships

- 2018 Australian Immunological Society Visiting Speaker Award, Australia
- 2013 International Teacher Mobility, University of Auckland 1992
- 1999 – 2002 Swedish Research Council Associate Professorship Award
- 1996 – 1998 SIDS Post-Doctoral Fellowship, Melbourne, Australia
- 1994 Young Investigator, Health Research Council, New Zealand
- 1992 Award for Best Presenter, European Society for Pediatric Research, Uppsala, Sweden

### Major grants, Mallard

The Swedish National Research Council has continuously supported my scientific projects since 1999. Additional national and international grants: Public Health Service at the Sahlgrenska University Hospital (ALF), EU grants (Neobrain, FP6 and Neurobid, FP7, PREMSTEM, Horizon2020); Transatlantic Foundation Leducq (USA and Europe); VINNOVA, Marie Curie, Swedish Brain Foundation, Torsten Söderberg Foundation and currently two RO1 from NIH (USA).

### Publications

Overall, 230 peer reviewed publications, H-index (google scholar Jan 2021): 66; Citations: 14548.

Full publication list available on request. PubMed (100 latest publications):

<https://pubmed.ncbi.nlm.nih.gov/?term=Mallard+C&sort=date>

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### TEACHING

#### Undergraduate teaching, 1 ECTS = 1 week

- 2005 - Medical program, Physiology & Pharmacology, 45 ECTS. Lecturing, seminars and oral final exam, 300 students/year).
- 2005 – 2015 Dental program, Anatomy and Physiology, 15 ECTS. Lecturing and seminars, 80 students/year.
- 2009 – 2015 Pharmacy program, Anatomy and Physiology, 15 ECTS. Lecturing and seminars, 90 students/year.
- 2007 – 2014 Dietetics Programme, Anatomy and Physiology, 15 ECTS. Lecturing and seminars, 30 students/year.
- 2002 – 2006 Biomedical Laboratory Science, Anatomy and Physiology, 15 ECTS. Lecturing and seminars, 40 students/year.

#### Postgraduate teaching, 1 ECTS = 1 week

- 2017 Brain Development and Neurodevelopmental Disorders, 1.0 ECTS, Karolinska Institute, Stockholm
- 2016 Different perspectives on development in children with functional deficits, 7.5 ECTS, Dept of Pediatrics, University of Gothenburg
- 2012 Consequences of brain injury in children and young adults II, 6.0 ECTS, Dept. of Physiology & Dept. of Paediatrics, University of Gothenburg, course director
- 2011 Neuroscience with clinical applications, 7.5 ECTS, Institute of Neuroscience and Physiology, University of Gothenburg, Course Director
- 2010 Consequences of brain injury in children and young adults I, 1.5 ECTS, Dept. of Physiology & Dept. of Paediatrics, University of Gothenburg, Course Director
- 2008 Physiology of the circulatory system, 2.5 ECTS, University of Gothenburg.
- 2003 Perinatal injury mechanisms, Research Day, September 23, Dept. Obstetrics and Gynaecology, University of Gothenburg
- 2000 Developmental and Perinatal Physiology, August 1-10, Karolinska Institute, Stockholm
- 1999 Injury and Repair in the Developing Brain, February 8-11, University of Gothenburg
- 1999 Introduction to animal experiments, August, University of Gothenburg.