

## Curriculum Vitae

Lou Brundin born Jan 25 1959

Dept Neurology, Karolinska University Hospital

171 76 Stockholm Sweden

### A. Professional preparation

Undergraduate university: Karolinska Institutet, MD 1987

Graduate university: Dept Physiology, Karolinska Institutet PhD 1991

Postdoc; Univ. Sussex, sensory physiology, Prof Ian Russell 1992- 1993

-80 original papers in the areas of neuroinflammatory disease, neural stem cells and sensory physiology.

### B. Appointments

Present: Professor, Senior Consultant. Head of neurosection dept Clinical neuroscience. Head of studies in neurology at Karolinska University Hospital Solna Solna. Clinical position in the neuroinflammatory unit outpatient clinic.

Associate Research Scientist, University of Columbia, New York, USA. 1991-96

Specialist practice in Neurology, Dept Neurology, Karolinska hospital 1994-99

Research fellowship from the Swedish Medical Society . 1996-99

Associate professor (docent) in physiology K.I. 1998

Associate professor (docent) in neurology K.I. 2001

Senior consultant in neurology clinics Karolinska Hospital. 2001-present

Director of studies in Neurology Karolinska Hospital 2004- present

Professor in neuroimmunology Karolinska Institutet 2008- present

Head of Neurosection Dept Clin neuroscience, Karolinska Inst 2011- present

### C. Commissions of trust

Scientific Secretary in the Swedish Society of Neurology 2000-03

Representative for neuroscience in FoUU (board of research and development) 2000-04

Vice president of Research and Development Karolinska Hospital 2002-03

Representative on the board of Scientific Education Karolinska Institutet 2005-08

Vice President of the Swedish MS Society 2007-09

President of the Swedish MS Society 2009-11

Representative for Sweden in the ECTRIMS board 2013-present

Member of the ECTRIMS executive committee  
(European committee for the treatment and research in MS) 2016-present

Member of the evaluation board at the Swedish Research Council (VR) 2016

Member of the Swedish brain foundation evaluation committee 2016-present

### D. Networks in academia and industry:

*Mikael Svensson*, Dept Neurosurgery, Karolinska Hospital 171 76 Stockholm

*Tomas Olsson*, Centre of Molecular Medicine , Karolinska inst 17176 Stockholm

*Jonas Frisé*n, Centre of Mol Biol, Karolinska Institutet

*Katarina le Blanc*, haematology clinic, Karolinska Univ Hospital huddinge

*Charlotte Teunissen*, PhD Amsterdam, *Gavin Giovannoni* London

Partner in the European consortium on CSF biobanks (Bio MS).

## **E. Entrepreneurial achievements**

Principal Investigator in 2 investigator-driven published trials. Principal investigator of the studies TEMSO, LTS, TOWER (Sanofi-Aventis).

## **F. Thesis of graduate students**

*Wanje Jäger MD* Dept Physiology 1998 (co-supervisor 50%)  
*Alexandre Danilov MD* Dept Clin Neurosci 2005 dissertation 051014 (LB main supervisor)  
*Ruxandra Covacu BSc* Dept Clin Neurosci 2008 dissertation 080124 (LB main supervisor)  
*Ellen Iacobaeus MD* Dept Clin Neurosci 2010 dissertation 100226 (LB main supervisor)  
*Lisa Arvidsson MD* Dept Clin Neurosci 2013 dissertation 130415 (LB main supervisor)  
*Cynthia Perez Estrada BSc* Dept Clin Neuroscience dissertation 140901 (LB main supervisor)  
Co-supervisor of *Michael Fagerlund MD PhD (diss 2012)* and *Jonathan Nordblom MD PhD (diss 2013)*

## **G. Present supervision**

*Susanne Neumann* (PhD student)  
*Sreenivasa Sankavaram Raghavan* (PhD student)  
*Ramil Hakim* (PhD student)  
*Jonas Gripenland* (post doc)  
*Pendar Khalili* (PhD student, co-supervisor)  
*Ruxandra Covacu* (associate researcher)  
*Sebastian Thams* (associate researcher)

## **H. Evaluation of scientific work**

Opponent:

Sara Bonde- "Death, survival, and morphological development of hippocampal granule cells born in an inflammatory environment" Lund 2009.

Markus Axelsson- "Investigation of the pathophysiology of progression in multiple sclerosis: studies on cerebrospinal fluid biomarkers" Göteborg 2013.

Cecilie Sandberg- Comparison of adult neural stem cells and glioblastoma stem cells. Oslo 2014.

Member of the dissertation board for PhD >20 occasions.

Referee tasks for: PloS One, MS journal, Hearing Research, J Neuroimmunology, J Neuroscience, J Urology, Cell transplantation, Neurology, Annals of Neurology.

Grant evaluator for the Italian MS society, Vetenskapsrådet (Medical research council MH3 sjukdomsmekanismer), Hjärnfonden (Brain foundation).

## **I. Clinical studies**

Participation as sub investigator in > 14 clinical trials mainly in the area of multiple sclerosis. Swedish PI for The studies TEMSO, Tower, LTS and their extension studies (Sanofi. Principal investigator for the Fampridine trial (Biogen). Ongoing investigator driven trials on Multiple sclerosis and spinal cord injury. Completed investigator driven trial on urinary bladder function in MS and spinal cord injury. Latest GCP certification 27 dec 2016.

## **J. Teaching**

### **Teaching experience**

#### **Time**

25% of full time 1987-91

25% of full time 1996-2003

10-15% of full time since 2003 (Director of studies, Dept Neurology). Responsible for the contents and execution of the neurology theme for medical students at KI Solna.

#### **Teaching -Type and variety**

##### **Undergraduate studies**

###### ***Odontology students***

1987-91: Responsible for the course in sensory physiology for odontology students. This included lecturing hearing, vision, pain, taste, smell, central and peripheral functions and pathways including examination procedures.

###### ***Physiotherapy students***

1996-02: Lectures on regular basis involving central and peripheral pareses and multiple sclerosis.

###### ***Medical students (semester 2,4,6 and,9)***

1986-2016: Lectures and practical workshops in the following topics:

1. EEG-consciousness , EMG-muscle function,

2. Pain, nerve functions, vision and hearing.

3. Numerous clinical lectures in basal ganglia function, pain and nerve functions

4: Problem based seminars on "the unconscious patient".

5: Clinical lectures on neurological examination, multiple sclerosis, spinal cord injury, coma, treatment of neurological symptoms, neurological complications of alcohol abuse.

1996-20016: Clinical lectures (20hours/semester), seminars (10hours/semester) and bedside teaching daily (10weeks/semester) in clinical neurology.

2003-2016: Director of studies (studierektor). In charge of the neurology course for medical students including its contents, organisation, execution and evaluation at Karolinska Solna. I have organised daily seminars and bedside teaching. Lectures on epilepsy, vertigo, multiple sclerosis, stroke, headache, basal neurological functions, cerebellar functions and coma.

###### ***Teaching-Postgraduate education***

2003-16: Specialist courses in neuroinflammatory disease. "Treatment options in MS", "MS in hospitalized patients" Case oriented education for specialists in neurology.

2013 SPUR inspector neurology clinic Linköping University Hospital

2000-2016: National and international lectures at courses in neuroimmunology for PhD students ("forskarutbildningskurser") in the following topics:"The role of nitric oxide in CNS disease", The role of neural stem cells in neuroinflammatory disease". "Autologous hematopoietic stem cell transplantation in MS"

Teacher at the international ECTRIMS summer school on remyelination in Nice. June 15-18 2015.

###### **Teaching-Examination**

1988-91: Design and correction of the sensory exams for dentists

1997-98: Assisted in design and correction of the neurology exams (kursamanuens).

1998-2016: Individual practical exams in neurology for medical students 4-8 students per term every year.

2003-2016: Responsible for designing and correcting the practical and theoretical exams in neurology for medical students.

### Teaching -Various

2002-2004: Introduction lecture "Research at KS" for new "AT and ST" doctors at Karolinska Hospital.

1998-2015: Lectures for MS patients organised by the Society for the Neurologically Disabled (NHR), (twice/year) on the topic "update on MS research". This commitment also include participation in the NHR information videos to answer MS related questions.

Pedagogical award: "the golden hammer" from the Swedish society of neurology 2009

Recent student survey on teaching quality for the neurocourse (medical students)

