

GENERAL INFORMATION

TILBURG SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Date Wednesday 2nd March

Time 09:00 - 18:00 pm

Location Tilburg University
Warandelaan 2
5037 AB Tilburg
Cobbenhagen Building
Aula

Participation fee: € 80
VNOP members/Tilburg University participants: € 50
Students: € 20

Registration: Registration before February 23rd 2011 is obliged.
www.tilburguniversity.edu/research/social-and-behavioral-sciences/life-stress/

This symposium is partially supported by the European Collaborative Research (EUROCORES) program EuroSTRESS, of the European Science Foundation (ESF). This program aims to integrate research on Stress and Mental Health. The societal and economic burden of stress related illnesses is enormous. Hence it is of great importance to come to a better understanding of how stressors influence mental health. ESF provides a platform for its Member Organizations to advance European research and explore new directions for research at the European level. Established in 1974 as an independent non-governmental organization, the ESF currently serves 79 Member Organizations across 30 countries.

The 'Vereniging Nederlandse OntwikkelingsPsychologie' (VNOP) was founded on 27 June 2007 and aims to facilitate Dutch Developmental Psychology in the broadest sense. This aim extends to both scientific research and academic education.

www.esf.org/eurostress



March 2, 2011

2ND SYMPOSIUM

'(Early) life stress, brain development and ageing: the use of different methods in measuring cognition and brain function throughout life'.



2ND SYMPOSIUM '(EARLY) LIFE STRESS, BRAIN DEVELOPMENT AND AGEING:

THE USE OF DIFFERENT METHODS IN MEASURING COGNITION AND BRAIN FUNCTION THROUGHOUT LIFE'

Health care is a public burden. Better understanding of the processes that cause early and unhealthy brain ageing will allow to develop strategies to intervene and to improve the health of the ageing population. At this symposium internationally well known researchers and clinicians will explain and discuss how human brain development/ageing and cognitive function can be measured with specific methods throughout life, from fetal life period until old age. In addition, empirical evidence of lifelong programming of human brain development/ageing and cognitive function by (early) life stress, in interaction with genetic and epigenetic factors will be presented. The symposium consists of two parts: part one covers the early life period and part two focuses on adulthood and old age. The life span view we propose is vital in developmental programming research and with our symposium we want to promote this view. It is important to note that most presentations will focus on methods that can be used within as well as outside clinical context in smaller or large cohort follow-up studies.

PROGRAM WEDNESDAY MARCH 2ND 2011

- 09.00** **Registration and coffee**
- 09.20 - 09.30** **Welcome by Rector Magnificus of Tilburg University Philip Eijlander**
- 09.30 - 09.45** **Introduction to the EuroSTRESS-ESF symposium**
Bea Van den Bergh (Tilburg, the Netherlands; EuroSTRESS-ESF)
Stress, cognition and the brain: a life span perspective
- 09.45 - 12.30** **Part 1: Measuring cognition and brain function in infancy and childhood**
Chair: Jean Vroomen (Tilburg, the Netherlands)
- 09.45 - 10.10** **István Winkler (Budapest, Hungary)**
The utility of event-related brain potentials in studying auditory information processing in neonates
- 10.10 - 10.35** **Matthias Schwab (Jena, Germany)**
Measurement of functional brain development in utero and postnatally (nonlinear EEG analysis and fetal magnetoencephalography)
- 10.35 - 10.45** **Coffee and tea break**

- 11.45 - 11.10** **Tobias Grossmann (London, UK and Leipzig, Germany)**
Social information processing in the first year of life
- 11.10 - 11.35** **Heather Bortfeld (Storrs, Connecticut, USA)**
Assessing developmental change in normal and impaired auditory processing
- 11.35 - 12.00** **Axel Schölmerich (Bochum, Germany)**
Behavioral and experimental paradigms in developmental research
- 12.00 - 12.30** **Panel discussion with all speakers, moderated by Jean Vroomen**
- 12.30 - 13.15** **Lunch**
- 13.15 - 15.45** **Part 2: Measuring cognition and brain function in adulthood and old age**
Chair: Boudewijn Van Houdenhove (Leuven, Belgium)
- 13.15 - 13.40** **Katja Franke (Jena, Germany)**
The 'BrainAGE' score derived from structural MRI as an indicator of individual brain aging
- 13.40 - 14.05** **Bernet Elzinga (Leiden, the Netherlands)**
Impact of childhood abuse on brain structures and functions related to affect and memory
- 14.05 - 14.30** **Jonathan Seckl (Edinburgh, Scotland; EuroSTRESS-ESF)**
Glucocorticoids, enzymes and cognitive ageing
- 14.30 - 14.55** **Joram Feldon (Zurich, Switzerland)**
Long-term cognitive effects of prenatal immune challenge: insights from preclinical research
- 14.55 - 15.20** **Katri Räikkönen (Finland, Helsinki; EuroSTRESS-ESF)**
Early life origins of cognitive functioning in the elderly
- 15.20 - 15.45** **Panel discussion, moderated by Boudewijn Van Houdenhove (Leuven, Belgium)**
- 16.00 - 18.00** **Farewell drink**
- 16.00 - 18.00** **Satellite program** 'The contribution of mirror neurons to the foundation of social sciences' by **Vittorio Gallese, Erik Borgman and Margriet Sitskoorn**