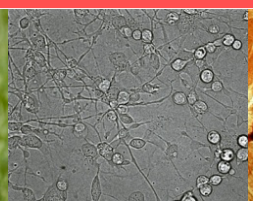
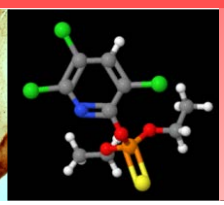
Developmental neurotoxicity and chemical exposure

— new strategies in the testing lab and the real world —

DENAMIC
Developmental neurotoxicity assessment of mixtures in children



Draft Scientific program, Monday 7th of December

8:30 Registration at VU University, Auditorium main building, Amsterdam

9:15 Welcome and opening (Pim Leonards, VU University)

9:30 Main outcomes of the DENAMIC project: Developmental neurotoxicity assessment of mixtures in children (Pim Leonards)

Session 1: Screening and tool development

Chair: Milou Dingemans

10:00 Overview of experimental data from DENAMIC: exposures, endpoints and effects (Milou Dingemans, Utrecht University)

10:20 New strategies for regulatory developmental neurotoxicity testing **tbc** (Kevin Crofton, US Environmental Protection Agency)

11:00 Coffee Break

11:30 Using mechanistic information in developing a concept of the Adverse Outcome Pathway (AOP) relevant to developmental neurotoxicity evaluation (Anna Price, ECVAM)

12:10 *In vitro* screening of environmental pollutants for their effects on intracellular calcium release (Timo Hamers, VU University)

12:30 Effects of single neonatal chlorpyrifos exposure on synaptic plasticity and attention in adult mice (Ronald van Kesteren, VU University)

12:45 Lunch and poster session

13:45 Neuronal connectivity: an *in vitro* endpoint of relevance to *in vivo* developmental neurotoxicity (Pamela Lein, UC Davis School of Veterinary Medicine)

14:25 New tools for fast screening of biological samples for neurotransmitters (Raluca-Ioana van Staden, National Institute of Research for Electrochemistry and Condensed Matter)

14:45 How about: An alternative testing strategy for neurotoxicity using zebrafish (Jessica Legradi, VU University)

Session 2: Mixture assessment: from simple to complex mixtures

Chair: Per Eriksson

15:05 Occurrence of neurotoxic chemicals in mother and child (Anton Kocan, Masaryk University)

15:25 Effects of mixtures of insecticides on voltage-gated calcium channels *in vitro* (Marieke Meijer, Utrecht University)

15:45 Coffee Break

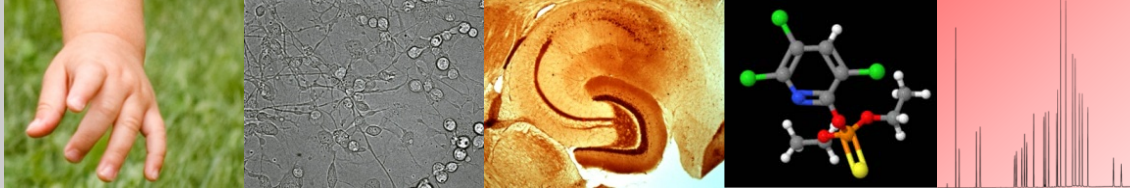
16:15 Developmental neurotoxicity of pesticides and persistent pollutants (Henrik Viberg, Uppsala University)

16:35 Gender differential effects of pesticides on cognitive and motor function. Some underlying mechanisms (Vicente Felipo, Centro de Investigacion Principe Felipe)

16:55 *In vitro* assessment of complex mixtures (VU University)

17:15 **End of first day and transfer to EYE for evening event**

SEVENTH FRAMEWORK PROGRAMME



Evening event
Monday 7th of December
Location: EYE film institute

18:30 **Reception at EYE**
19:00 **DENAMIC film premiere at EYE**
19:45 – 22:00 **Dinner at EYE**

Location:
EYE, IJpromenade 1, 1031 KT Amsterdam
From Amsterdam's Central Station, a free ferry that runs 24 hours a day will take you to the other side of the IJ harbor.
Take the ferry that is labelled 'Buiksloterweg'. The ferry ride takes 3 minutes. If you are travelling from Central Station, this ferry will be located on one of the two middle pontoons. When you get off the ferry in Amsterdam Noord, turn left immediately and then walk three minutes to EYE.

Scientific program, Tuesday 8th of December

Session 3: Pre-and postnatal exposure assessment, neurodevelopment and epidemiology

Chair: Lubica Palkovicova

9:00 Epidemiologic evidence for neurodevelopmental effects of pesticide exposures **tbc** (Maryse Bouchard, Université de Montréal)
9:40 DENAMIC cohorts - overview of the approach. Exposure to environmental pollutants and neurodevelopment in PRENATAL children (Lubica Palkovicova, Slovak Medical University)
10:00 Pre- and postnatal exposure to organophosphate pesticides: associated factors and effects on child neuropsychological development (Marisa Rebagliato, Center for Public Health Research)
10:20 Coffee Break
10:50 Exposure to persistent organic pollutants and ADHD: a pooled analysis of 11 European birth cohort studies (Joan Forns Guzman, Norwegian Institute of Public Health)
11:15 Prospective mother-child cohort in the Netherlands: the LINC study (Marijke de Cock, VU University)
11:35 Assay development with biomarker candidates derived from animal studies (Stephan Jung, Proteome Sciences)
11:55 Lunch and poster session

Session 4: Risk Assessment and socio-economic aspects of neurotoxic compounds

Chair: Pim Leonards

13:30 DENAMIC risk assessment (Roel Vermeulen, Utrecht University)
13:50 Socio-economic aspects of developmental neurotoxicity by chemical exposure **tbc**
14:30 General discussion: Challenges and opportunities for developmental neurotoxicity assessment
15:15 Closing remarks (Pim Leonards and Milou Dingemans)
15:30 Drinks

SEVENTH FRAMEWORK PROGRAMME