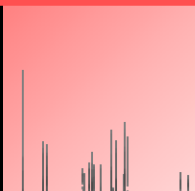
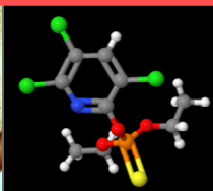
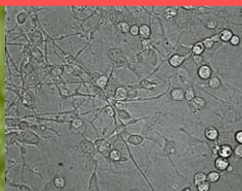


# Novel tools and methods for the screening of chemicals for developmental neurotoxicity

10-11 March 2014, Amsterdam, The Netherlands



## Tentative Scientific program, Monday 10<sup>th</sup> of March

- 8.30 Registration at VU University, Auditorium main building, Amsterdam
- 9.00 Welcome and opening (Pim Leonards)

### Session 1: Screening tools

Chair: Milou Dingemans

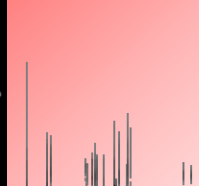
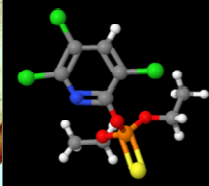
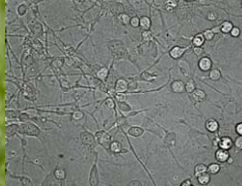
- 9.30 Neurophysiological endpoints *in vitro* for developmental neurotoxicity testing (Milou Dingemans, Utrecht University)
- 10.00 Selecting test compounds for the evaluation of novel tools in DNT testing (Christoph van Thriel, IfADo)
- 10.30 Coffee Break
- 11.00 *In vitro* screening of potential neurotoxicants in humans (Timo Hamers, VU University)
- 11.30 Neurospheres as tools for developmental neurotoxicity testing (Ellen Fritsche, IUF)
- 12.00 Lunch and poster session

### Session 2: Timing of exposure in behavior, cognitive and motor function

Chair: Per Eriksson

- 13.30 Neurobehavioral outcomes following gestational and/or postnatal exposures to pesticides (Ginger Moser, US Environmental Protection Agency) – to be confirmed
- 14.00 Neonatal exposure to MeHg, chlorpyrifos, carbaryl, cypermethrin, endosulfan and perfluorohexane sulfonate (PFHxS) during a critical period of brain development: Interaction - modified behavior and levels of neuroproteins (Henrik Viberg, Uppsala University)
- 14.30 Cognitive and motor alterations induced by developmental exposure to environmental contaminants in rats. Molecular mechanisms (Vicente Felipo, Centro de Investigacion Principe Felipe)
- 15.00 Coffee Break
- 15.30 Using zebrafish as a rapid throughput *in vivo* model to identify developmental and neurotoxic compounds (Robert Tanguay, Oregon State University)
- 16.00 Characterization of the locomotor activity from zebrafish larvae exposed to environmental contaminants (Jessica Legradi, VU University)
- 16.30 Drinks





## Draft Scientific program, Tuesday 11<sup>th</sup> of March

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

*Chair: Lubica Palkovicova*

- 9.00 Epidemiologic evidence for neurodevelopmental effects of pesticide exposures (Maryse Bouchard, Université de Montréal)
- 9.30 DENAMIC case control studies - overview of the approach (Lubica Palkovicova, Slovak Medical University)
- 10.00 Organophosphate pesticide levels and child neuropsychological development: preliminary results in INMA-DENAMIC (Sabrina Llop, Center for Public Health Research)
- 10.30 Coffee Break
- 11.00 Perfluorinated compounds measured in breast milk and child neuropsychological development in a Norwegian birth cohort study (Joan Fornes Guzman, Norwegian Institute of Public Health)
- 11.30 Unraveling the exposome for causal health and environment-wide associations (Denis Sarigiannis, Aristotle University of Thessaloniki)
- 12.00 Lunch

### Session 4: Biomarkers and neurotoxicity

*Chair: Pim Leonards*

- 13.30 DNTox-21c Identification of pathways of developmental neurotoxicity using metabolomics approaches (Helena Hogberg, Johns Hopkins Bloomberg School of Public Health)
- 14.00 The dynamics of autism spectrum disorders: How neurotoxic compounds and neurotransmitters interact (Ilona Quaak, VU University)
- 14.30 Coffee Break
- 15.00 An array of omic and microsensor approaches to derive biomarkers for developmental neurotoxicity (Stephan Jung, Proteome Sciences)
- 15.30 Statistical approaches to derive omics-based biomarkers (Roel Vermeulen, Utrecht University)
- 16.00 **Closing remarks** (Pim Leonards and Milou Dingemans)