

Program Annual PhD Meeting - Thursday, 25 November 2010

09:00 – 09:45	Registration/ coffee and tea
09:45 – 10:00	Words of welcome by day chair: Bernard Bloem
<i>Didactic comments:</i>	Guus Smit
10:00 – 11:30	Session 1: Neurological Diseases - Chair: Jeroen Pasterkamp <u>Patricia Klemmer</u> <i>Exploring the synaptic proteome of a mouse model for Fragile X Syndrome using proteomics tools</i> <u>Jeroen Melief</u> <i>Cortisol-related gene expression underlies a favourable disease course of multiple sclerosis</i> <u>Yasmin Namavar</u> <i>Clinical, Neuroradiological and Genetic Findings in Pontocerebellar Hypoplasia</i> <u>Katja Ritz</u> <i>Characterization of SGCE isoforms in human brain: implications for Myoclonus-Dystonia pathogenesis?</i> <u>Sandra van der Salm</u> <i>Suppression of ocular tics in Gilles de la Tourette syndrome</i>
11:30 – 11:45	Coffee and tea
11:45 – 13:00	Session 2: Addiction - Chair: Taco de Vries <u>Natalia Goriounova</u> <i>Rules of synaptic learning in humans and rats</i> <u>Joost Wiskerke</u> <i>Nucleus accumbens mu-opioid receptors, a novel 'player' in the regulation of amphetamine-induced impulsive behavior</i> <u>Ruth van Holst</u> <i>Cognitive flexibility in pathological gamblers and alcohol dependent subjects</i> <u>Evelien Platje</u> <i>Neurobiological correlates of antisocial behaviour in a normal population</i>
<u>Neurofederation talk 5 min (Guus Smit)</u>	
13:00 – 14:00	Lunch
14:00 – 14:30	Blitz Session I
14:30 – 15:00	Printer Workshop
15:00 – 16:00	Poster Session I / Printers market
16:00 – 17:30	Session 3: Neurodegeneration - Chair: Wiep Scheper <u>Diana Nijholt</u> <i>The UPR is associated with the phosphorylation of tau in neurodegenerative disorders</i> <u>Ling Shan</u> <i>The Histaminergic system in neurodegeneration and neuropsychiatry disorders: a postmortem study</i> <u>Asiya Giniatullina</u> <i>Purification of calcium sensor DOC2B for crystallization</i> <u>Hannemieke van der Lei</u> <i>Restricted diffusion in vanishing white matter</i> <u>Marian Steenweg</u> <i>DTI in Leukoencephalopathy with brainstem and spinal cord involvement and elevated Lactate (LBSL): local strongly increased FA and reduced diffusivity as well as globally reduced FA and increased diffusivity</i>
17:30 – 17:45	Coffee and tea
17:45 – 18:45	Swammerdam Lecture by Prof.dr. Willem (Pim) Levelt Max Planck Institute for Psycholinguistics, Nijmegen University <i>Diagrams and diaries. How neural modeling of language acquisition took off</i>
19:00 – 20:30	Dinner
20:30 – 21:30	Evening Program "Rock your brain!"

Program Annual PhD Meeting - Friday, 26 November 2010

08:00 – 09:00	Breakfast
<i>Didactic comments:</i>	Frank Baas
<i>Day chair:</i>	Natasha Pasricha
09:00 – 10:30	Session 4: Electrophysiology and mechanisms – Chair: Ger Ramakers <u>Juliane Lauks</u> <i>Neurobeachin: an AKAP involved in the regulation of glutamatergic receptors</i> <u>Yoav Noam</u> <i>Activity-dependent regulation of neuronal HCN channels mediated by control of channel trafficking and cytoskeletal dynamics</i> <u>Henrique Cabral</u> <i>Coding of trajectories by normal and CA1-NMDAR KO mice</i> <u>Rhea van de Bospoort</u> <i>Identifying molecular mechanisms underlying dense core vesicle release in neurons</i>
10:30 – 11:00	Coffee and tea
11:00 – 12:15	Session 5: Behavior - Chair: Tommy Pattij <u>Rebecca Schutte</u> <i>Linking sleep, behaviour and cognition in childhood – a meta-analysis</i> <u>Pieter Goltstein</u> <i>Selective effects of reward on stimulus-specific assemblies in mouse visual cortex shown by two-photon calcium imaging in vivo</i> <u>Pieter van Bokhoven</u> <i>The effect of social defeat stress: a hippocampal focus</i> <u>Thais Sampaio Rizzi</u> <i>Genetic variants in FADS cluster region and fatty acid intake and their influence on cognition</i>
12:15 – 13:15	Lunch
13:15 – 13:45	Blitz Session II
13:45 – 15:00	Poster Session II / Coffee and tea
15:00 – 16:15	Session 6: Epilepsy and EEG - Chair: Eleonora Aronica <u>O.J. Avella Gonzalez</u> <i>Explaining waxing and waning in cortical oscillations: a modeling approach</i> <u>Martijn Wokke</u> <i>Chasing down visual perception by combining TMS and EEG</i> <u>Linda Holtman</u> <i>Anti-inflammatory strategies during the development of epilepsy</i> <u>Xin Qiao</u> <i>Binding kinetics of various anti-epileptic drugs to the alpha-subunit of the voltage-gated sodium channel in HEK cells</i>
16:15 – 16:30	Poster, blitz and oral presentation awards
16:30 – 16:45	Closing remarks (Natasha Pasricha)

Blitz Session I**25 November 2010, 14:00 – 14:30**

Janna Cousijn
Lianne Schmaal
Elsemarieke van de Giessen
Nienke Broos
Anna Carrano
Hyung Elfrink
Eva Verbeek
Juan Zhao
Stella de Wit
Anouk den Braber
Mattia Maroso
Femke den Boon
Marlies Oostland
Rogier Poorthuis
Anouk van Loon
Tony Cijssouw
Marlene Végh
Martine Groen
Kerstin Wirz
Laura van Berge

Blitz Session II**26 November 2010, 13:15 – 13:45**

Ping Gao
Bart Lubbers
Zsuzsika Sjoerds
Tara Arbab
Saskia Woudstra
Anke Dijkstra
Arthur de Jong
Marie-Alica Gariel-Mathis
Giovanni Piantoni
Simon-Shlomo Poil
Cleo Crunelle
Joost Verbeek
Anne Klomp
Elodie Girault
Addy van Dijk
Xin-Rui Qi
Roxana Voitcu
Qian Wang
Rubén Saavedra
Danielle van Versendaal
Natasha Pasricha
Marieke Meijer
Robin Verhaar
Jeroen Bos
Timo van Kerkoerle

Group: A (Addiction 1)

- 1) **Janna Cousijn**
Reaching out towards cannabis: Approach bias in heavy cannabis users predicts changes in cannabis use
- 2) **Marise Machielsen**
Differences in craving for cannabis between schizophrenia patients using risperidone, olanzapine or clozapine
- 3) **Lianne Schmaal**
N-acetylcysteine changes glutamate levels in cocaine dependent subjects: an open label ¹H MRS study
- 4) **Marieke Schouw**
Dopaminergic neurotoxicity in recreational users of amphetamine: preliminary results
- 5) **Elsmarieke van de Giessen**
Cue induced food craving in obesity: an fMRI study
- 6) **Nienke Broos**
Trait and not state levels of impulsive decision making predict extinction resistance and reinstatement vulnerability of cocaine seeking

Group: C (Cognition 1)

- 12) **Alexander Diaz**
The will to sleep: does effort to fall asleep promote or oppose the sleep-onset period?
- 13) **Marianne Klanker**
Deep brain stimulation in medial and orbital prefrontal cortex and cognitive flexibility
- 14) **Zimbo Boudewijns**
Layer specific activity during switches in attentional state in the rat prefrontal cortex
- 15) **Sarah Burke**
Sexually dimorphic hypothalamic response to putative pheromone androstadienone – an fMRI study
- 16) **Grégoire Maroteaux**
Behavioral phenotyping of Munc18-1 heterozygous mice in emotional tests
- 17) **Anouk van Loon**
Effects of perceptual learning on GABA concentrations in human visual cortex

Group: E (Degeneration)

- 23) **Anna Carrano**
Amyloid beta induces oxidative stress mediated blood-brain barrier changes in capillary amyloid angiopathy
- 24) **Hyung Elfrink**
Rab6 function during ER stress and Alzheimer's disease
- 25) **Sasja Heetveld**
New susceptibility genes for Alzheimer's disease: connection to the A β pathway
- 26) **Marie Orre**
The effect of Amyloid beta on the proteasome activity in astrocytes in the context of Alzheimer's disease
- 27) **Kerstin Wirz**
Abeta pathology triggers transcriptional alterations of genes involved in immune response, but not in synaptic activity in the frontal cortex of the APP^{swe}/PS1^{dE9} mouse model for Alzheimer's disease

Group: F (Genetics 1)

- 28) **Esther Lips**
Functional related synaptic genes are associated with Bipolar Disorder
- 29) **Eva Verbeek**
Resequencing candidate genes for major depressive disorder in a Dutch cohort
- 30) **Sarah Janssen**
Primary Open Angle Glaucoma: Gene expression profile and functional annotation of the human ciliary body epithelia

31) Elzbieta Kostrzewa

CRE mediated gene knock down - a method to validate candidate genes for complex psychiatric disorders

Group: K (Psychiatric disorders 1)

50) Danaï Riga

Role of individual variability in stress coping and the development of depressive symptomatology

51) Juan Zhao

Alterations in GABA and glutamate pathways in the prefrontal cortex in major depressive disorder, bipolar disorder and depression in Alzheimer's disease

52) Stella de Wit

Emotion regulation in obsessive compulsive disorder patients: a functional magnetic resonance imaging study

53) Anouk den Braber

A functional MRI study in monozygotic twins concordant and discordant for obsessive-compulsive symptoms

54) Abdel Abdellaoui

Genome wide analyses on assortative mating

55) Thomas Scheewe

The prevalence of metabolic syndrome in schizophrenia and its relation to clinical symptoms

56) Albertine Scheltema Beduin

Off-label second generation antipsychotics for impulse regulation disorders. A review.

Group: M (Receptors 1)

63) Jan-Peter van Wieringen

Characterizing agonist ligands at dopamine D2 receptors: methodological considerations

64) Mattia Maroso

HMGB1 and toll-like receptor (TLR) signaling in epilepsy

65) Femke den Boon

In vitro cannabinoid-mediated modulation of synaptic transmission in the rat prefrontal cortex

66) Rogier Poorthuis

Layer specific modulation of prefrontal cortical circuits by nicotinic acetylcholine receptor activation and desensitization: an electrophysiological study

67) Bernard Bloem

Layer specific modulation of prefrontal cortical circuits by nicotinic acetylcholine receptor activation and desensitization: a calcium imaging study

68) Marlies Oostland

Expression of the serotonin 3 receptor in the developing postnatal cerebellum

Group: Q (Signaling 1)

84) Tony Cijssouw

Munc18-1-Venus KI mouse allows for study of dynamic processes in chromaffin cells

85) Catherine van Engen

Omega-oxidation of very long-chain fatty acids: a therapeutic option for X-linked adrenoleukodystrophy?

86) Sabine Schmitz

Liprin-alpha2 controls presynaptic function by recruiting CASK and RIM

87) Lieke Geerts

Functional analysis of tomosyn-2 in the mammalian brain

88) Emanuele Zurolo

Expression pattern of microRNA-146a in experimental and human Temporal Lobe Epilepsy

89) Torben Hager

Heart rate dynamics of munc18-1 heterozygous mice during novelty exposure, auditory fear conditioning and circadian rhythm

Group: S (Synapse)

96) Rocío Díez Arazola

Doc2b is a calcium sensor for spontaneous release

- 97) **Marlene Végh**
Synaptic dysfunction in mouse-models of DNA-damaged induced aging
- 98) **Matthijs Verhoog**
Spike-timing-dependent plasticity at human neocortical synapses
- 99) **Johan Winnubst**
Activity Dependence of Dendritic Fine-Scale Organization
- 100) **Martine Groen**
Effect of development of GABAergic inhibition on dendritic integration in CA1 pyramidal neurons from apical dendrite to tuft
- 101) **Adrian Negrean**
Two-photon imaging of neuronal membrane potentials using novel voltage sensitive dyes

Group: T (White matter)

- 102) **Oscar Stassen**
Mechanotransduction and the intermediate filament cytoskeleton in neurogenic and reactive astrocytes
- 103) **Debbie Hendrickx**
Study of mechanisms of myelin phagocytosis in multiple sclerosis
- 104) **Baukje van der Star**
Neurofilament light as a target for autoimmunity in multiple sclerosis
- 105) **Andrea Goudriaan**
Differences in brain myelination in mouse recombinant inbred strains
- 106) **Laura van Berge**
Functional analysis of DARS2 mutations identified in LBSL patients

Poster Session II

26 November 2010, 13:45 – 15:00

Group: B (Addiction 2)

- 7) **Ping Gao**
Immediate early gene expression in cocaine self-administration
- 8) **Bart Lubbers**
Regulation of synaptic proteins triggered by cue-induced reinstatement of nicotine seeking
- 9) **Zsuzsika Sjoerds**
Familial alcohol dependence and gray matter abnormalities in non-alcoholic adults
- 10) **Jelte Wouda**
Long-term effects of adolescent alcohol exposure on operant alcohol self-administration and radial arm maze performance in Wistar rats.
- 11) **Ozlem Korucuoglu**
Cognitive flexibility in addiction: what drinking habits reveal about the processing of cues

Group: D (Cognition 2)

- 18) **Tara Arbab**
Hippocampal codes of space and episodic memory in a mouse model of Fragile-X mental retardation
- 19) **Remi Soleman**
Neuroendocrine implications for cognition and brain activity in adult transsexuals and women with a polycystic ovarian syndrome
- 20) **Niels Kloosterman**
Auditory decision-making relies on a prefrontal sensory comparator mechanism
- 21) **Ilse Verweij**
Sleep deprivation leads to a loss of functional connectivity in frontal brain regions
- 22) **Sarah Moens**
The Netherlands Sleep Registry: a web-based survey and computer-based test tool

Group: G (Genetics 2)

- 32) **Saskia Woudstra**
Association of the piccolo gene with fMRI first results from the NESDA genetic neuroimaging study.

33) Celse Henrique Freitas Alves

Functional analysis of Crumbs proteins in retina. CRB2 conditional knockout mouse:
Phenotype analysis

34) Joseph Ndika

Identification and functional analysis of a novel splice variant of the Creatine Transporter Gene

35) Margriet van Gestel

AAV-mediated knockdown of genes implicated in behavior

36) Regina Kanski

Modification of GFAP-isoform expression in neurogenic astrocytes

Group: H (Motor systems)

37) Anke Dijkstra

Gene expression profiling in the substantia nigra in different stages of Parkinson's disease

38) Caroline Bruinsma

Cerebellar function in Angelman syndrome

39) Thijs van der Vaart

Motor deficits of Neurofibromatosis type 1 mice: no role for the cerebellum

40) Evelien Zoons

Dopamine-serotonin dysbalance in dystonia

Group: I (Networks)

41) Arthur de Jong

Short periods of network activity cause rapid and localized changes in ready releasable pool size

42) Marie-Alice Gariel-Mathis

Cortex-wide hierarchy revealed by laminar distribution patterns: regularities and peculiarities of cortico-cortical networks

43) Giovanni Piantoni

Effective connectivity during resting state after sleep deprivation

44) Simon-Shlomo Poil

Multi-scale criticality in neuronal network models of ongoing oscillations

45) Jeroen Bos

Spatial discrimination of multimodal, three-dimensional dynamic agents: A new behavioral paradigm

Group: J (Pharmacology)

46) Cleo Crunelle

Varenicline increases striatal dopamine D2/3 receptor binding in drugs-na rats

47) Sandra Cornelisse

Blockade of the mineralocorticoid receptor: effects on stress responses, selective attention and memory in men

48) Joost Verbeek

(Radio)synthesis and biological evaluation of [¹¹C]Phenytol, a Pgp substrate

49) Anne Klomp

Effects of single dose oral citalopram on neuronal responses: a pharmacological MRI study in healthy volunteers

Group: L (Psychiatric disorders 2)

57) Katelijne van Oortmerssen

ADHD in SUD patients

58) Elodie Girault

Acute administration of the antipsychotic olanzapine increases the plasma glucose concentration and induces hepatic insulin resistance in male rats. Peripheral (intragastric) versus central (intracerebroventricular)

59) Julia Dawitz

Development of neuronal networks in mental retardation

60) Addy van Dijk

Is deep brain stimulation in the nucleus accumbens anxiolytic

61) Marek Brandys

Are genetic variants regulating BMI in the general population associated with anorexia nervosa

62) Xin-Rui Qi

Selective reductions in mineralocorticoid-receptor, brain-derived neurotrophic factor and TrkB in the prefrontal cortex of mood disorder patients

Group: N (Receptors 2)

69) Roxana Voitcu

Distribution of NMDA receptor subunits in the superficial layers of macaque primary visual cortex

70) Qian Wang

Glucocorticoid receptor expression in the human hippocampus changes with age and in depression

71) Anna Karataeva

Biochemical characterization of CKAMP44 - AMPA receptor regulatory protein

72) Pieter Klein

Development of new radiotracers for the NMDA receptor: synthesis of [¹¹C]GMOM

Group: O (Regeneration)

73) Nitish Fagoe

Optimization of AAV expression vector for overexpression of transcription factors in DRG neurons targeting axonal regeneration

74) Rubén Saavedra

Olfactory ensheathing glial cells and their role in the removal of neuronal debris during regeneration of the primary olfactory pathway

75) Martina Moeton

Cellular dynamics of GFAP isoforms in neurogenic astrocytes

76) Stefan Hoyng

Lentiviral Regulatable systems in the PNS

77) Carlyn Mamber

In vivo targeting of subventricular zone astrocytes

Group: P (Sensory systems)

78) Sarah Havenith

Spiral ganglion cell survival after round-window application of Gelfoam soaked with Brain-Derived Neurotrophic Factor

79) Julia Meuwese

The effect of perceptual learning on structural changes in the brain

80) Nouk Tanke

Neural code of perception in the rat

81) Timo van Kerkoerle

Increase of gamma frequencies during top-down processing in area V1

82) Danielle van Versendaal

Chronic 2-photon imaging in vivo to study synaptic remodeling

83) Annelinde Vandenbroucke

Neural correlates of visual awareness during unreportable events

Group: R (Signalling 2)

90) Natasha Pasricha

Rapid effects of corticosterone on hippocampus via non-genomic pathway

91) Ingrid Bakker

Investigating the functional effects of an epistatic interaction between the LEPR and AP4E1 in MDD

92) Ning Chen

Pre-synaptic protein complexes identified by Interaction Proteomics

93) Marieke Meijer

Munc18-1 mutations that abolish binding to Syntaxin1a N-peptide and assembled SNARE-complexes support normal synaptic transmission

94) Robin Verhaar

Irreversible active-site inhibition of tissue transglutaminase prevents cross-linking of α -synuclein in a cellular model of Parkinson's disease

95) Julia Kurps

The role of SM proteins in F-actin regulation