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

Didactic comments:  Guus Smit

10:00 – 11:30  Session 1: Neurological Diseases - Chair: Jeroen Pasterkamp
Patricia Klemmer
*Exploring the synaptic proteome of a mouse model for Fragile X Syndrome using proteomics tools*
Jeroen Melief
*Cortisol-related gene expression underlies a favourable disease course of multiple sclerosis*
Yasmin Namavar
*Clinical, Neuroradiological and Genetic Findings in Pontocerebellar Hypoplasia*
Katja Ritz
*Characterization of SGCE isoforms in human brain: implications for Myoclonus-Dystonia pathogenesis?*
Sandra van der Salm
*Suppression of ocular tics in Gilles de la Tourette syndrome*

11:30 – 11:45  Coffee and tea

11:45 – 13:00  Session 2: Addiction - Chair: Taco de Vries
Natalia Goriounova
*Rules of synaptic learning in humans and rats*
Joost Wiskerke
*Nucleus accumbens mu-opioid receptors, a novel ‘player’ in the regulation of amphetamine-induced impulsive behavior*
Ruth van Holst
*Cognitive flexibility in pathological gamblers and alcohol dependent subjects*
Evelien Platje
*Neurobiological correlates of antisocial behaviour in a normal population*

Neurofederation talk 5 min (Guus Smit)

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
Diana Nijholt
*The UPR is associated with the phosphorylation of tau in neurodegenerative disorders*
Ling Shan
*The Histaminergic system in neurodegeneration and neuropsychiatry disorders: a postmortem study*
Asiya Giniatullina
*Purification of calcium sensor DOC2B for crystallization*
Hannemieke van der Lei
*Restricted diffusion in vanishing white matter*
Marjan Steenweg
*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*

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
*Diagrams and diaries. How neural modeling of language acquisition took off*

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

**Didactic comments:**
Frank Baas

**Day chair:**
Natasha Pasricha

09:00 – 10:30  Session 4: Electrophysiology and mechanisms – Chair: Ger Ramakers

Juliane Lauks
*Neurobeachin: an AKAP involved in the regulation of glutamatergic receptors*

Yoav Noam
*Activity-dependent regulation of neuronal HCN channels mediated by control of channel trafficking and cytoskeletal dynamics*

Henrique Cabral
*Coding of trajectories by normal and CA1-NMDAR KO mice*

Rhea van de Bospoort
*Identifying molecular mechanisms underlying dense core vesicle release in neurons*

10:30 – 11:00  Coffee and tea

11:00 – 12:15  Session 5: Behavior - Chair: Tommy Pattij

Rebecca Schutte
*Linking sleep, behaviour and cognition in childhood – a meta-analysis*

Pieter Goltstein
*Selective effects of reward on stimulus-specific assemblies in mouse visual cortex shown by two-photon calcium imaging in vivo*

Pieter van Bokhoven
*The effect of social defeat stress: a hippocampal focus*

Thaís Sampaio Rizzi
*Genetic variants in FADS cluster region and fatty acid intake and their influence on cognition*

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

O J Avella Gonzalez
*Explaining waxing and waning in cortical oscillations: a modeling approach*

Martijn Wokke
*Chasing down visual perception by combining TMS and EEG*

Linda Holtman
*Anti-inflammatory strategies during the development of epilepsy*

Xin Qiao
*Binding kinetics of various anti-epileptic drugs to the alpha-subunit of the voltage-gated sodium channel in HEK cells*

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 Cijsouw
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 Voltcu
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 Aβ 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 APPswe/PS1dE9 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) Danai 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 Cijsouw  
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) Rocio Diez 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 myelinisation 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 Korucuoğlu
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 Kansi
   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]Phenytoin, 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