



## Thesis defenses from MHeNS - School for Mental Health and Neuroscience

### 2013

Rob Havermans: **Bipolar disorder in daily life; Mood and cortisol responses to naturally occurring events.** Supervisor: Prof.dr. M. de Vries; Co-Supervisor: Dr. N. Nicolson.

Véronique Moers-Hornikx: **Deep brain stimulation and the cerebellum.** Supervisors: Prof.dr. J. Vles / Prof.dr. Y. Temel; Co-Supervisor: Dr. G. Hoogland.

Nicole Veldhorst-Janssen: **Intranasal delivery of rapid acting drugs.** Supervisors: Prof.dr. M. Marcus / Prof.dr. C. Neef; Co-Supervisor: Dr. P.H. van der Kuy.

Stéphanie Knippenberg: **Vitamin D and Multiple Sclerosis: immunological and clinical outcome.** Supervisor: Prof.dr. J. Cohen-Tervaert; Co-Supervisors: Dr. J. Damoiseaux / Dr. Y. Bols.

Erik D. Gommer: **Dynamic Cerebral Autoregulation: from methodology towards clinical application.** Supervisors: Prof.dr. W.H. Mess / Prof.dr. R.B. Panerai, UK; Co-Supervisor: Dr.ir. J.P.H. Reulen.

Olga A.H. Reneerkens: **Can PDE inhibition improve cognition ?<sup>[SEP]</sup> Translational insights.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-Supervisor: Dr. J. Prickaerts;.

Lyzel S. Elias-Sonnenschein: **Clinical and biomarker correlates of genetic risk factors for Alzheimer's disease.** Supervisor: Prof.dr. F.R.J. Verhey; Co-Supervisor: Dr. P.J. Visser.

Diego F. Mastroeni: **Epigenetic Dysregulation and the Pathophysiology of<sup>[SEP]</sup>of Alzheimer's Disease.** Supervisors: Prof.dr. H.W.M. Steinbusch / Prof.dr. P.D. Coleman, Sun City, Arizona; Co-Supervisors: Dr. B.P.F. Rutten / Dr. D.L.A. van den Hove.

Leonidas Chouliaras: **Epigenetic Regulation in Aging and Alzheimer's disease: A translational perspective.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-Supervisors: Dr. B.P.F. Rutten / Dr. D.L.A. van den Hove.

Liesbeth Knaepen: **Perinatal events and altered pain sensitivity in later life.** Supervisors: Prof.dr. E.A.J. Joosten / Prof.dr. D. Tibboel, EUR; Co-Supervisor: Dr. J. Patijn.

Marisela Martinez-Claros: **Hippocampal plasticity and corticosterone: From dendrites to behaviour.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-Supervisors: Dr. J.L. Pawluski / Dr. J. Prickaerts.

Marcus D. Lancé: **A circle of improvement in bleeding management: from laboratory to clinic and back.** Supervisors: Prof.dr. M.A.E. Marcu / Prof.dr. J.W.M. Heemskerk; Co-Supervisor: Dr. Y.M.C. Henskens.

Hilde Braakman: **Imaging the brain; neuronal correlates of cognitive impairment in children with frontal lobe epilepsy.** Supervisors: Prof.dr. A.P. Aldenkamp / Prof.dr. J.S.H. Vles; Co-Supervisors: Dr.ir. W.H. Backes / Dr. P.A.M. Hofman.

Willem H. van Zwam: **Aneurysmal subarachnoid hemorrhage: imaging strategies and cost-effectiveness aspects in diagnostic work-up and post-therapeutic follow-up.** Supervisors: Prof.dr. J.T. Wilminck / Prof.dr. J.E. Wildberger; Co-Supervisor: Dr. P.A.M. Hofman.

Klara De Cort: **The Pathogenesis of Panic Disorder.** Supervisors: Prof.dr. I. Myin-Germeys / Prof.dr. E.J.L. Griez; Co-Supervisors: Dr. K.R.J. Schruers / Dr. I. Van Diest, Leuven.

Kim van Wijck: **Mind the Gap; experimental studies on splanchnic hyperfusion and gastrointestinal integrity loss in man.** Supervisors: Prof.dr. W.A. Buurman / Prof.dr. C.H.C. Dejong; Co-Supervisor: Dr. K. Lenaerts.

Yvette Roke: **Antipsychotic-induced hyperprolactinemia in children and adolescents with mainly autism spectrum disorders. Prevalence, symptoms, clinical consequences and genetic risk factors.** Supervisors: Prof.dr. P.N. van Harten / Prof.dr. J.K. Buitelaar (RUN); Co-Supervisor: Dr. A. Boot (UMCG).

Fleur Goezinne: **Retinal detachment surgery: pre and postoperative prognostic factors.** Supervisors: Prof.dr. F. Hendrikse / Prof.dr. C.A.B. Webers; Co-Supervisor: Dr. E.C. La Heij (Amsterdam).

Ralph L.J.G. Maassen: **The Merits of Videolaryngoscopy during Glottic Visualisation for Endotracheal Intubation.** Supervisors: Prof.dr. M. Marcus / Prof.dr. A. van Zundert (University of Queensland).

Maria J. de Sousa Guerreiro: **The role of sensory modality in age-related distraction.** Supervisor: Prof.dr. C.M. van Heugten; Co-Supervisor: Dr. P.W.M. van Gerven.

Ine Rayen: **Effects of developmental fluoxetine exposure on neurobehavioral outcomes.**  
Supervisor: Prof.dr. H.W.M. Steinbusch; Co-Supervisors: Dr. J.L. Pawluski /  
Dr. T.D. Charlier (Ohio University, USA).

Nynke M.G. Bodde: **Psychogenic non-epileptic seizures; a separate disorder or part of a continuum?** Supervisors: Prof.dr. R. van Oostenbrugge / Prof.dr. K. Vonck (UZ Gent);  
Co-Supervisors: Dr. R. Lazeron / Dr. A. de Louw (Epilepsiecentrum Kempenhaeghe, Heeze).

Alejandro M. Gomez: **Novel strategies for making myasthenia less gravis: targeting plasma cells and the neuromuscular junction.** Supervisor: Prof.dr. M.H. De Baets;  
Co-Supervisors: Dr. M. Losen / Dr. P. Martinez-Martinez.

Mohammad S. Rahnema'i: **Prostaglandins and Phosphodiesterases in the Urinary Bladder Wall.** Supervisors: Prof.dr. Ph. Van Kerrebroeck / Prof.dr. S. de Wachter  
(Universiteit Antwerpen); Co-Supervisor: Dr. G. van Koeveringe.

Mariken B. de Koning: **Studying biomarkers in populations at genetic and clinical high risk for psychosis.** Supervisors: Prof.dr. T. Amelsvoort / Prof.dr. J. Booij (AMC).

Fabien Boulle: **Epigenetic regulation of BDNF/TrkB signaling in the pathophysiology and treatment of mood disorders.** Supervisors: Prof.dr. H.W.M. Steinbusch /  
Prof.dr. L. Lanfumey (Universiteit Parijs); Co-Supervisors: Dr. D. van den Hove /  
Dr. G. Kenis.

## 2014

Iris Nowak-Maes: **Tinnitus; assessment of quality of life & cost-effectiveness.**  
Supervisors: Prof.dr. M. Peters / Prof.dr. B. Kremer; Co-Supervisors: Dr. M. Joore /  
Dr. L. Anteunis.

Marjolein Huijts: **Cognitive function in patients with cerebral small vessel disease.**  
Supervisor: Prof.dr. R.J. van Oostenbrugge; Co-Supervisors: Dr. A.A. Duits / Dr. J. Staals.

Markus Gantert: **Fetal inflammatory injury as origin of long term disease: Lessons from animal models.** Supervisors: Prof.dr. B. Kramer / Prof.dr. L. Zimmermann; Co-Supervisor:  
Dr. A. Gavilanes.

Elke Kuypers: **Fetal development after antenatal exposures: Chorioamnionitis and maternal glucocorticoids.** Supervisors: Prof.dr. B.W. Kramer / Prof.dr. H.W. Steinbusch /  
Prof.dr. Suhas G. Kallapur (University of Cincinnati, Ohio, USA).

Pieter Kubben: **Ultra low-field strength intraoperative MRI for Glioblastoma Surgery.**  
Supervisor: Prof.dr. J.J. van Overbeeke; Co-Supervisor: Dr. H. van Santbrink.

Laura Baijens: **Surface electrical stimulation of the neck for oropharyngeal dysphagia in Parkinson's disease: therapeutic aspects and reliability of measurement.** Supervisor: Prof.dr. B. Kremer; Co-Supervisor: Dr. R. Speyer, Townsville.

Janneke Hoeijmakers: **Small fiber neuropathy and sodium channels; a paradigm shift.** Supervisor: Prof.dr. R.J. van Oostenbrugge; Co-Supervisors: Dr. C.G. Faber / Dr. I.S.J. Merkies.

Stephanie Vos: **The Role of biomarkers in preclinical and prodromal Alzheimer's disease.** Supervisor: Prof.dr. F.R. Verhey; Co-Supervisor: Dr. P.J. Visser.

Muriël Doors: **The Value of Optical Coherence Tomography in Anterior Segment Surgery.** Supervisors: Prof.dr. R.M. Nuijts / Prof.dr. C.A. Webers; Co-Supervisor: Dr. T.T.J.M. Berendschot.

Anneke Maas: **Sleep problems in individuals with genetic disorders associated with intellectual disability.** Supervisors: Prof.dr. I. Curfs / Prof.dr. R. Didden.

Sebastiaan van Gorp: **Translational research on spinal cord injury and cell-based therapies; a focus on pain and sensorimotor disturbances.** Supervisors: Prof.dr. B. Joosten / Prof.dr. M. van Kleef; Co-Supervisors: Dr. J. Patijn / Dr. R. Deumens, KU Leuven.

Andrea Sannia: **High risk newborns and brain biochemical monitoring.** Supervisor: Prof.dr. J.S.H. Vles; Co-Supervisors: Dr. D. Gazzolo, Alessandria, Italy / Dr. A.W.D. Gavilanes.

Julie A.D.A. Dela Cruz: **Dopamine mechanisms in learning and memory: Evidence from rodent studies.** Supervisors: Prof.dr. H.W.M. Steinbusch / Prof.dr. R.J. Bodnar, New York; Co-Supervisor: Dr. B.P.F. Rutten.

René Besseling: **Brain wiring and neuronal dynamics; advances in MR imaging of focal epilepsy.** Supervisors: Prof.dr. A.P. Aldenkamp / Prof.dr.ir. W.H. Backes; Co-Supervisor: dr. J.F.A. Jansen.

Maria Quint-Fens: **Long-term care after stroke; development and evaluation of a long-term intervention in primary care.** Supervisors: Prof.dr. J.F.M. Metsemakers / Prof.dr. C.M. van Heugten / Prof.dr. M. Limburg, Almere; Co-Supervisor: dr. G.H.M.I. Beusmans.

Veronique Moulaert: **Life after survival of a cardiac arrest; the heart of the matter.**  
Supervisors: Prof.dr. J.A. Verbunt / Prof.dr. C.M. van Heugten / Prof.dr. D.T. Wade, Oxford,  
UK.

Feikje Smeets: **The hallucinatory-delusional state: a crucial connection in the psychosis symptom network.** Supervisor: Prof.dr. J. van Os; Co-Supervisor: Dr. T. Lataster.

Lies Clerx: **Alzheimer's disease through the MR-eye; novel diagnostic markers and the road to clinical implementation".** Supervisor: Prof.dr. F. Verhey; Co-Supervisors:  
Dr. P.J. Visser / P. Aalten.

Sonny Tan: **The subthalamic nucleus in Parkinson's disease.** Supervisors:  
Prof.dr. Y. Temel / Prof.dr. H.W.M. Steinbusch / Prof.dr. T. Sharp, Oxford, UK /  
Prof.dr. V. Visser-Vandewalle, Koln.

Koen van Boxem: **The use of pulsed radiofrequency in the management<sup>[SEP]</sup> of chronic lumbosacral radicular pain.** Supervisors: Prof.dr. M. van Kleef / Prof.dr. E.A.J. Joosten;  
Co-Supervisor: Assoc. Prof.dr. J. van Zundert.

Jérôme Waterval: **Hyperostosis cranialis interna.** Supervisors: Prof.dr. J.J. Manni /  
Prof.dr. R.J. Stokroos.

Sylvie Kolfschoten-van der Kruijs: **Psychogenic non-epileptic seizures; the identification of neurophysiological correlates.** Supervisors: Prof.dr. A.P. Aldenkamp /  
Prof.dr. K.E.J. Vonck, Universiteit Gent; Co-Supervisors: Dr. J.F.A. Jansen /  
Dr. R.H.C. Lazeron, Kempenhaeghe.

Wouter Pluijms: **Spinal cord stimulation and pain relief in painful diabetic polyneuropathy, a translational approach.** Supervisors: Prof.dr. M. van Kleef /  
Prof.dr. E.A. Joosten; Co-supervisor: Dr. C.G. Faber.

Ron Handels: **Health technology assessment of diagnostic strategies for Alzheimer's disease.** Supervisors: Prof.dr. F.R.J. Verhey / Prof.dr. J.L. Severens (EUR); Co-Supervisor:  
Dr. M.A. Joore / Dr. C.A.G. Wolfs.

Evelyn Peelen: **Regulatory T cells in the pathogenesis of Multiple Sclerosis: potential targets for vitamin D therapy.** Supervisors: Prof.dr. R.M.M. Hupperts / Prof.dr. J.W. Cohen Tervaert; Co-Supervisor: Dr. J.G.M.C. Damoiseaux / Dr. M.M.G.L. Thewissen, Diepenbeek.

Reint Jellema: **Cell-based therapy for hypoxic-ischemic injury in the preterm brain.**  
Supervisors: Prof.dr. B.W.W. Kramer / Prof.dr. H.W.M. Steinbusch; Co-Supervisor:  
Dr. W.T.V. Germeraad / Dr. P. Andriessen, Veldhoven.

Maria Wertli: **Prognosis of Chronic Clinical Pain Conditions: The Example of Complex Regional Pain Syndrome 1 and Low Back Pain.** Supervisors: Prof.dr. M. van Kleef;  
Co-Supervisor: Dr. F. Brunner, Zürich / Dr. R. Perez, VUmc.

Dagmar Zeef: **An experimental model of Huntington's disease: Validation & Stimulation.**  
Supervisors: Prof.dr. Y. Temel / Prof.dr. H.W.M. Steinbusch; Co-supervisor:  
Dr. A. Jahanshahi.

Jeroen Decoster: **Breaking Down Schizophrenia into phenes, genes and environment.**  
Supervisors: Prof.dr. I. Myin-Germeys / Prof.dr. M. De Hert, KU Leuven; Co-Supervisor:  
Dr. R. van Winkel.

Eaja Anindya Sekhar Mukherjee: **Fetal Alcohol Spectrum Disorders: exploring prevention and management.** Supervisor: Prof.dr. L.M.G. Curfs; Co-Supervisor: Prof. S. Hollins,  
St. George's University of London, UK.

Catherine van Zelst: **Inside out; On stereotype awareness, childhood trauma and stigma in psychosis.** Supervisors: Prof.dr. Ph. Delespaul / Prof.dr. J. van Os.

Ibrahim Tolga Binbay: **Extended Psychosis Phenotype in the Wider Social Environment.**  
Supervisor: Prof.dr. J. van Os; Co-Supervisor: Dr. M. Drukker.

Frank Van Dael: **OCD matters in psychosis.** Supervisors: Prof.dr. J. van Os /  
Prof.dr. I. Myin-Germeys.

Pamela Kleikers: **NOXious oxidative stress: from head toe too and back.** Supervisors:  
Prof.dr. H.H.H.W. Schmidt / Prof.dr. H.W.M. Steinbusch; Co-Supervisor: Dr. B. Janssen.

José Luis Gerardo Nava: **In vitro assay systems in the development of therapeutic interventions strategies for neuroprotection and repair.** Supervisors: Prof.dr.med. J. Weis  
/ Prof.dr. H.W.M. Steinbusch; Co-Supervisor: Dr. G.A. Brook, RWTH Aachen.

Eva Bollen: **Cyclic nucleotide signaling and plasticity.** Supervisors:  
Prof.dr. H.W.M. Steinbusch / Prof.dr. R. D'Hooge, KU Leuven; Co-Supervisor:  
Dr. J. Prickaerts.

## 2015

Jessica A. Hartmann: **A good laugh and a long sleep; Insights from prospective and ambulatory assessments about the importance of positive affect and sleep in mental health.** Supervisor: Prof.dr. J. van Os; Co-Supervisors: C.J.P. Simons / Dr. M. Wichers.

Bart Ament: **Frailty in old age; conceptualization and care innovations.** Supervisors: Prof.dr. G.I.J.M. Kempen / Prof.dr. F.R.J. Verhey; Co-Supervisor: Dr. M.E. de Vugt.

Mayke Janssens: **Exploring course and outcome across the psychosis-continuum.** Supervisor: Prof.dr. I. Myin-Germeys; Co-Supervisor: Dr. T. Lataster.

Dennis M.J. Hernau: **Dopayours is not dopamine: genetic, environmental and pathological variations in dopaminergic stress processing.** Supervisor: Prof.dr. I. Myin-Germeys; Co-Supervisors: Prof.dr. F.M. Mottaghy / Dr. D. Collip.

Ingrid M.H. Brands: **The adaptation process after acquired brain injury Pieces of the puzzle.** Supervisors: Prof.dr. C.M. van Heugten / Prof.dr. D.T. Wade, Oxford UK; Co-Supervisors: Dr. S.Z. Stapert / Dr. S. Köhler.

Francesco Risso: **Urinary and salivary S100B monitoring in high risk infants.** Supervisor: Prof.dr. J.S.H. Vles; Co-Supervisors: Dr. D. Gazzolo, Genoa,Italy / Dr. A.W.D. Gavilanes.

Alessandro Borghesi: **Stem and Progenitor Cells in Preterm Infants: Role in the Pathogenesis and Potential for Therapy.** Supervisor: Prof.dr. L. Zimmermann; Prof.dr. B. Kramer; Co-Supervisors: Dr. D. Gazzolo, Genoa,Italy / Dr. A.W.D. Gavilanes.

Claudia Menne-Lothmann: **Affect dynamics; A focus on genes, stress, and an opportunity for change.** Supervisor: Prof.dr. J. van Os; Co-Supervisors: Dr. M. Wichers / Dr. N. Jacobs.

Martine van Nierop: **Surviving childhood new perspectives on the link between childhood trauma and psychosis.** Supervisors: Prof.dr. I. Myin-Germeys / Prof.dr. J. van Os; Co-Supervisor: Dr. R. van Winkel.

Sylvia Klinkenberg: **VNS in children; more than just seizure reduction.** Supervisors: Prof.dr. J. Vles / Prof.dr. A. Aldenkamp; Co-Supervisor: Dr. H. Majoie.

Anouk Linssen: **Considerations in designing an adult hearing screening programme.** Supervisor: Prof.dr. B. Kremer; Co-Supervisors: Dr. L. Anteunis / Dr. M. Joore.

Janny Hof: **Hearing loss in young children; challenges in assessment and intervention.**  
Supervisors: Prof.dr. B. Kremer / Prof.dr. R. Stokroos / Prof.dr. P. van Dijk, RUG;  
Co-Supervisor: Dr. L. Antheunis.

Kimberly Cox-Limpens: **Mechanisms of endogenous brain protection; Clues from the transcriptome.** Supervisors: Prof.dr. J. Vles / Prof.dr. L. Zimmermann; Co-Supervisor: Dr. A. Gavilanes.

Els Vanhoutte: **Peripheral Neuropathy outcome measures; Standardisation (PeriNomS) study part 2: Getting consensus.** Supervisors: Prof.dr. C. Faber / Prof.dr. P. van Doorn;  
Co-Supervisor: Dr. I. Merkies, Spaarne ziekenhuis Hoofddorp.

Mayienne Bakkers: **Small fibers, big troubles; diagnosis and implications of small fiber neuropathy.** Supervisors: Prof.dr. C. Faber / Prof.dr. M. de Baets; Co-Supervisor: Dr. I. Merkies, Spaarne ziekenhuis Hoofddorp.

Ingrid Kramer: **Zooming into the micro-level of experience: An approach for understanding and treating psychopathology.** Supervisor: Prof.dr. J. van Os;  
Co-Supervisors: Dr. M. Wichers, UMC Groningen / Dr. C. Simons.

Esther Bouman: **Risks and Benefits of Regional Anesthesia in the Perioperative Setting.**  
Supervisors: Prof.dr. M. van Kleef / Prof.dr. M. Marcus, HMC, Qatar / Prof.dr. E. Joosten;  
Co-Supervisor: Dr. H. Gramke.

Mark Janssen: **Selective stimulation of the subthalamic nucleus in Parkinson's disease; dream or near future.** Supervisors: Prof.dr. Y. Temel / Prof.dr. V. Visser-Vandewalle, Keulen / Prof.dr. A. Benazzouz, Bordeaux, France.

Reina de Kinderen: **Health Technology Assessment in Epilepsy; economic evaluations and preference studies.** Supervisors: Prof.dr. S. Evers / Prof.dr. A. Aldenkamp;  
Co-Supervisor: Dr. H. Majoie / Dr. D. Postulart, GGZ O-Brabant.

Saskia Ebus: **Interictal epileptiform activity as a marker for clinical outcome.**  
Supervisors: Prof.dr. A. Aldenkamp / Prof.dr. J. Arends, TUE / Prof.dr. P. Boon, Universiteit Gent, België.

Inge Knuts: **Experimental and clinical studies into determinants of panic severity.**  
Supervisor: Prof.dr. I. Myin-Germeys; Co-Supervisor: Dr. K. Schruers; Influencing panic.

Nienke Tielemans: **Proactive coping post stroke: The Restored4Stroke Self-Management study.** Supervisors: Prof.dr. C. van Heugten / Prof.dr. J. Visser-Meily, UMC Utrecht;  
Co-Supervisor: Dr. V. Schepers, UMC Utrecht.



Tom van Zundert: **Improvements Towards Safer Extraglottic Airway Devices.**  
Supervisors: Prof.dr. A.E.M. Marcus / Prof.dr. W. Buhre / Prof.dr. J.R. Brimacombe,  
Queensland, Australia / Prof.dr. C.A. Hagberg.

Tijmen van Assen: **Anterior Cutaneous Nerve Entrapment Syndrome Epidemiology and surgical management.** Supervisors: Prof.dr. G.L. Beets / Prof.dr. M. van Kleef / Dr. R.M.H. Roumen / Dr. M.R.M. Scheltinga, MMC Veldhoven.

Rohit Shetty: **Understanding the Clinical, Immunological and Genetic Molecular Mechanisms of Keratoconus.** Supervisors: Prof.dr. R.M.M.A. Nuijts / Prof.dr. C.A.B. Webers.

Christine van der Leeuw: **Blood, bones and brains; peripheral biological endophenotypes and their structural cerebral correlates in psychotic disorder.** Supervisor: Prof.dr. J. van Os; Co-supervisor: Dr. M. Marcelis.

Sanne Peeters: **The Idle Mind Never Rests; functional brain connectivity across the psychosis continuum.** Supervisor: Prof.dr. J. van Os; Co-supervisor: dr. M. Marcelis.

Nick van Goethem:  **$\alpha 7$  nicotinic acetylcholine receptors and memory processes: mechanistic and behavioral studies.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-supervisor: Dr. J. Prickaerts.

Nicole Leibold: **A Breath of fear; a translational approach into the mechanisms of panic.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-supervisors: Dr. K.R.J. Schruers / Dr. D.L.A. van den Hove.

Renske Hamel: **The course of mild cognitive impairment and the role of comorbidity.** Supervisor: Prof.dr. F.R.J. Verhey; Co-supervisors: Dr. I.H.G.B. Ramakers / Dr. P.J. Visser.

Lucia Speth: **Effects of botulinum toxin A injections and bimanual task-oriented therapy on hand functions and bimanual activities in unilateral Cerebral Palsy.** Supervisors: Prof.dr. J. Vles; Prof.dr. R. Smeets; Co-supervisor: Dr. Y. Janssen-Potten, Adelante Hoensbroek.

Yuan Tian: **The effects of Lutein on the inflammatory pathways in age-related macular degeneration (AMD).** Supervisors: Prof.dr. C. Webers; Prof.dr. A. Kijlstra, WUR; Co-supervisor: Dr. M. Spreeuwenberg; Dr. H. Tange.

Peggy Spauwen: **Cognition and Type 2 diabetes; the interplay of risk factors.** Supervisors: Prof.dr. F. Verhey; Prof.dr. C. Stehouwer; Co-supervisor: Dr. M. van Boxtel

Marc Hilhorst: **Crescentic glomerulonephritis in ANCA associated vasculitis.** Supervisors: Prof.dr. J. Cohen-Tervaert; Co-supervisor: Dr. P. van Paassen

Martin Gevonden: **The odd one out: exploring the nature of the association between minority status and psychosis.** Supervisors: Prof.dr. J-P. Selten; Prof.dr. J. Booij, Uva; Prof.dr. I. Myin-Germeys

Bart Biallosterski: **Structural and functional aspects of sensory-motor Interaction in the urinary bladder.** Supervisors: Prof.dr. Ph. Van Kerrebroeck; Prof.dr. S. De Wachter, UvAntwerpen; Co-supervisors: Dr. G. van Koeveringe; Dr. M. Rahnama'i.

Alexandra König: **The use of information and communication technologies (ICT) for the assessment of patients with Alzheimer's Disease and related disorders.** Supervisors: prof.dr. F. Verhey; prof.dr. Ph. Robert, Nice, Fr; Co-supervisors: dr. P. Aalten; dr. R. David, Nice. Fr.

Micheline Chenault: **Assessing Readiness for Hearing Rehabilitation.** Supervisors: prof.dr. M.P.F. Berger; prof.dr. B. Kremer; Co-supervisor: dr. L.J.C. Anteunis.

Anand Vinekar: **Retinopathy of Prematurity. Recent advances in tele-medicine screening, risk factors and spectral domain optical coherence tomography imaging.** Supervisor: prof.dr. C.A.B. Webers; Co-supervisor: dr. N.J. Bauer

Fleur van Dooren: **Diabetes and Depression: exploring the Interface between Pathophysiological and Psychological factors.** Supervisors: prof.dr. F.R.J. Verhey; prof.dr. J.K.L. Denollet, UvT; prof.dr. F. Pouwer, UvT; Co-supervisor: dr. M.T. Schram.

Gabriëlla Pons van Dijk: **Taekwondo and physical fitness components in middle-aged healthy volunteers; the Sekwondo study.** Supervisors: prof.dr. J. Lodder; prof.dr. H. Kingma; Co-supervisor: dr. A.F. Lenssen.

Yara Pujol López: **Development and psychoneuroimmunological mechanisms in depression.** Supervisor: prof.dr. H.W.M. Steinbusch; Co-supervisors: Dr. G. Kenis; Dr. D. van den Hove; Dr. Aye Mu Myint, München.

Romina Gentier: **UBB+1; an important switch in the onset of Alzheimer's disease.** Supervisors: Prof. H. Steinbusch; Prof. D. Hopkins; Co-supervisor: Dr. F. van Leeuwen.

Sanne Smeets: **Insights into insight: studies on awareness of deficits after acquired brain injury.** Supervisor: Prof. C. van Heugten; Prof. R. Ponds; Co-supervisor: Dr. I. Winkens

Kim Beerhorst: **Bone disease in chronic epilepsy: fit for a fracture.** Supervisor: Prof. A. Aldenkamp; Prof. R. van Oostenbrugge; Co-supervisor: Dr. P. Verschuure.

Alex Zwanenburg: **Cerebral and cardiac signal monitoring in fetal sheep with hypoxic-ischemic encephalopathy.** Supervisor: Prof. T. Delhaas; Prof. B. Kramer; Co-supervisors: Dr. T. Wolfs; Dr. P. Andriessen, MMC.

Ismail Sinan Guloksuz: **Biological mechanisms of environmental stressors in psychiatry.** Supervisor: Prof. J. van Os; Co-supervisors: Dr. B. Rutten; Dr. M. Drukker.

Seyed Ehsan Pishva MD: **Environmental Epigenetics in mental health and illness.**  
Supervisor: Prof.dr. J. van Os; Co-supervisors: Dr. B.P.F. Rutten; Dr. G. Kenis.

Ankie Hamaekers: **Rescue ventilation using expiratory ventilation assistance; innovating while clutching at straws.** Supervisors: Prof.dr. W.F. Buhre; Prof.dr. M. van Kleef.

Rens Evers. **22q11.2 deletion syndrome: intelligence, psychopathology and neurochemistry at adult age.** Supervisors: Prof.dr. L.M.G. Curfs; Prof.dr. T. v. Amelsvoort.

Sarah-Anna Heschem. **Novel insights towards memory restoration.** Supervisor: Prof.dr. Y. Temel; Co-supervisor: Dr. A. Blokland; Dr. A. Jahanshahi.

João P. da Costa Alvares Viegas Nunes. **Insulin receptor sensitization improves affective pathology in various mouse models.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-supervisors: Dr. K-P. Lesch; Dr. T. Strelakova; Dr.B.H. Cline, Oxford.

Yanny Ying-Yee Cheng. **Clinical Outcomes After Innovative Lamellar Corneal Transplantation Surgery.** Supervisor: Prof.dr. R.M.M.A. Nuijts; Co-supervisor: Dr. J.S.A.G. Schouten.

## 2016

Oliver Gerlach. **Parkinson's disease, deterioration during hospitalization.** Supervisor: Prof.dr. R. van Oostenbrugge; Co-supervisor: Dr. W. Weber.

Remo Arts. **Intracochlear electrical stimulation to suppress tinnitus.**  
Supervisor: Prof.dr. R.J. Stokroos; Co-supervisor: Dr. E.L.J. Georg.

Mitchel van Eeden. **The €- Restore4stroke study: Economic evaluation of stroke care in the Netherlands.** Supervisors: Prof.dr.mr. S.M.A.A. Evers; Prof.dr. C.M. v. Heugten; Co-supervisor: dr. G.A.P. van Mastrigt.

Pim Klarenbeek. **Blood pressure and cerebral small vessel disease.**  
Supervisor: Prof.dr. R.J. van Oostenbrugge; Co-supervisor: Dr. J. Staals.

Ramona Hohnen. **Peripheral pharmacological targets to modify bladder contractility.**  
Supervisor: Prof.dr. Ph.E.V. van Kerrebroeck; Co-supervisors: Dr. G.A. van Koevinge; Dr. M.A. Sahnama'i; Dr. C. Meriaux.

Ersoy Kocabicak. **Deep brain stimulation of the subthalamic nucleus: Clinical and scientific aspects.** Supervisors: Prof.dr. Y. Temel; Prof.dr. K. van Overbeeke;  
Co-supervisor: Dr. A. Jahanshahi.

Sven Akkerman. **Temporal aspects of cyclic messenger signaling in object recognition memory; a pharmacological approach.** Supervisor: Prof.dr. H.W.M. Steinbusch;  
Co-supervisors: dr. J. Prickaerts; dr. A. Blokland.

Anja Moonen. **Emotion and Cognition in Parkinson's disease; etiology and neurobiological mechanisms.** Supervisor: Prof.dr. F.R.J. Verhey; Co-supervisor: dr. A.F.G. Leentjens.

Anna Schüth. **Three-dimensional bladder tissue morphology.** Supervisors: Prof.dr. G.A. van Koeveringe; Prof.dr. M. v. Zandvoort, Aachen; Prof.dr. Ph. V. Kerrebroeck.

Elisabeth van der Ven. **Ethnic minority position as risk indicator for autism-Spectrum and psychotic disorders.** Supervisors: Prof.dr. J.P. Selten; Prof.dr. J. van Os.

Zuzana Kasanova. **Environmental reactivity for better or worse; The impact of stress and reward on neurochemistry, affect and behavior across the psychosis continuum.** Supervisor: Prof.dr. I. Myin-Germeys, KU Leuven/UM; Co-supervisor: dr. D. Collip.

Danielle Lambrechts. **Ketogenic diet therapies; treatment for children and adults with refractory epilepsy.** Supervisors: Prof.dr. H.J.M. Majoie; Prof.dr. J.S.H. Vles; Prof.dr. A.P. Aldenkamp; Co-supervisor: dr. A.J.A. de Louw, Kempenhaeghe, Heeze.

Frank van Bussel. **Advanced MRI in diabetes; cerebral biomarkers of cognitive decrements.** Supervisors: Prof.dr.ir. W.H. Backes; Prof.dr. P.A.M. Hofman; Co-supervisor: dr. J.F.A. Jansen.

Lisa Schönfeldt. **Neurostimulation to treat brain injury?** Supervisors: Prof.dr. Y. Temel; Prof.dr. S. Hendriks, Hasselt; Co-supervisor: dr. A. Jahanshahi.

Rianne Geerlings. **Transition in patients with childhood-onset epilepsy; a long way to adulthood.** Supervisor: Prof.dr. A.P. Aldenkamp; Co-supervisors: dr. A.J.A. de Louw, dr. L.M.C. Gottmer, Kempenhaeghe.

Nele Claes. **B cells as multifactorial players in multiple sclerosis pathogenesis: insights from therapeutics.** Supervisors: Prof.dr. V. Somers, Hasselt; Prof.dr. R. Hupperts; Co-supervisors: Prof.dr. P. Stinissen, dr. J. Fraussen, Hasselt.

Olaf Schijns. **Epilepsy surgery and biomarkers from history to molecular imaging.** Supervisors: Prof.dr. J.J. van Overbeeke; Prof.dr. H. Clustermann, Aachen; Co-supervisors: dr. G. Hoogland; dr. M.J.P. v. Kroonenburgh.

Lizzy Boots. **Balanced and Prepared; development and evaluation of a supportive e-health intervention for caregivers of people with early-stage dementia.** Supervisors: Prof.dr. F.R.J. Verhey; Prof.dr. G.I.J.M. Kempen; Co-supervisor: dr. M.E. de Vugt.

Wouter Donders. **Towards patient-specific (cerebro-) vascular model applications.** Supervisors: Prof.dr. T. Delhaas; Prof.dr.ir. F.N. van de Vosse, TUE; Co-supervisor: dr.ir. W. Huberts.

Sizzle Vanterpool. **The implications of intrauterine invasion by microbes for placental Pathology and the occurrence of adverse pregnancy outcomes.** Supervisor: Prof.dr. B.W. Kramer. Co-supervisors: dr. J.V. Been, Erasmus MC Rotterdam, dr. U von Rango.

Manuela Heins. **The Relationship between Social Adversity, Psychosis, and Depression across an Individual's Life Span.** Supervisor: Prof.dr. I. Myin-Germeys.

Christianus van Ganzewinkel. **NEONATAL PAIN; Out of Sight, Out of Mind?**

Supervisor: Prof.dr. B.W.W. Kramer; Co-supervisor: dr. P. Andriessen, MMC Veldhoven.

Anne-Hilde Muris. **Hype or hope? Vitamin D in multiple sclerosis; A clinical and immunological perspective.** Supervisor: Prof.dr. R.M.M. Hupperts; Co-supervisor: dr. J.G.M.C. Damoiseaux.

Gerard Bode. **The link between ceramide transporters, innate Immunity and Alzheimer's disease.** Supervisor: Prof.dr. M.H.V. de Baets; Co-supervisors: dr. P. Martinez, dr. M. Losen.

Jo Stevens. **Advanced diagnostics and therapeutics for Alzheimer's disease.** Supervisor: Prof.dr. M. de Baets; Co-supervisors: dr. M. Losen, dr. P. Martinez-Martinez.

Rosan Luijckx. **Stress and pain in muscles and brain; developing psychophysiological paradigms to examine stress and pain interactions.** Supervisors: Prof.dr. J.J. van Os; Prof.dr.ir. H.J. Hermens, UT; Co-supervisor: dr. R. Lousberg.

M.C. Haanschoten. **Towards efficient cardiac surgery – the integrating role of anesthesiology and intensive care.** Supervisors: Prof. dr. W. Buhre; Prof. dr. A. van Zundert (Queensland); Co-supervisors: Dr. M.A. Soliman Hamad; Dr. A. van Straten (Catharina zkhs.)

Harmen Jan van de Haar. **Microvascular and blood-brain barrier dysfunction in Alzheimer's disease.** Supervisor: Prof.dr.ir. W. Backes; Prof.dr. F. Verhey; Co-supervisor: Dr. J. Jansen; Dr.ir. M. v. Osch, LUMC.

Coenraad Itz. **Chronic low back pain, considerations about: Natural Course, Diagnosis, Interventional Treatment and Costs.** Supervisor: Prof.dr. M. van Kleef; Prof.dr. F. Huygen, EUR; Co-supervisor: Dr. B. Ramaekers.

Willemijn Jansen. **The Path of Alzheimer's disease: from neuropathology to clinic.** Supervisor: Prof.dr. F. Verhey; Co-supervisors: Dr. P.J. Visser; Dr. I. Ramakers.

Ligia dos Santos Mendes Lemes Soares. **Phosphodiesterase inhibitors: a potential therapeutic approach for ischemic cerebral injury.** Supervisor: Prof.dr. H.W.M. Steinbusch; Co-supervisors: Dr. R.M. Weffort de Oliveira, Brazil; Dr. J. Prickaerts

Martijn Broen. **Anxiety and depression in Parkinson's disease.** Supervisor: Prof.dr. R.J. van Oostenbrugge; Co-supervisors: Dr. A.F.G. Leentjens; Dr. M.L. Kuijf.

Sandra Schipper. **Extrasynaptic receptors as a treatment target in epilepsy.** Supervisor: Prof.dr. J.H.S. Vles; Co-supervisors: Dr. G. Hoogland; Dr. S. Klinkenberg; Dr. M.W. Aalbers, RUG.

João Casaca Carreira. **Making sense of Antisense Oligonucleotides Therapy in Experimental Huntington's disease.** Supervisor: Prof.dr. Y. Temel; Co-supervisors: Dr. A. Jahanshahi; Dr. W. van Roon-Mom, LUMC.

Dominique IJff. **Trick or Treat? Cognitive side-effects of antiepileptic treatment.** Supervisors: Prof.dr. A.P. Aldenkamp; Prof.dr. M. Majoie; Co-supervisors: Dr. J. Jansen; Dr. R. Lazeron, Kempenhaeghe.

Alfredo Ramirez. **Neurogenetic approach in neurodegenerative disorders.** Supervisors: Prof.dr. B.P.F. Rutten; Prof.dr. H.W.M. Steinbusch; Prof.dr. M.M. Nöthen, University of Bonn.

Nienke Visser. **Toric Intraocular lenses in cataract surgery.** Supervisor: Prof.dr. R.M.M.A. Nuijts; Co-supervisor: Dr. N.J.C. Bauer.

Jakob Burgstaller. **Prognostic indicators for patients with degenerative lumbar spinal stenosis.** Supervisor: Prof.dr. M. van Kleef; Co-supervisors: Dr. M.M. Wertli, University of Zurich; Dr. H.F. Gramke.

Mark van den Hurk. **Neuronal Identity and Maturation: Insights from the Single-Cell Transcriptome.** Supervisors: Prof.dr. H.W.M. Steinbusch; Prof.dr. B.P.F. Rutten; Co-supervisors: Dr. G. Kenis; Dr. C. Bardy, Adelaide.

Maria Nikiforou. **Prenatal stress and the fetal gut. Potential interventions to prevent adverse outcomes.** Supervisors: Prof.dr. B.W. Kramer; Prof.dr. H.W. Steinbusch; Co-supervisor: Dr. T.G. Wolfs.

Janneke Peijnenborgh. **Assessment of cognition, time perception, and motivation in children.** Supervisors: Prof.dr. J.S.H. Vles; Prof.dr. A.P. Aldenkamp; Co-supervisors: Dr. J. Hendriksen; Dr. P. Hurks.

Joany Millenaar. **Young onset dementia; towards a better understanding of care needs and experiences.** Supervisors: Prof.dr. F. Verhey; Prof.dr. R. Koopmans, RUN; Co-supervisors: Dr. M. de Vugt; Dr. C. Bakker, RUN.

## 2017

Adriana Smits. **Perinatal factors and hearing outcome.** Supervisors: Prof.dr. R.J. Stokroos; Prof.dr. B.W. Kramer; Prof.dr. B. Kremer.

Angela Bouwmans. **Transcranial sonography in parkinsonian disorders: clear window or blurred vision.** Supervisor: Prof.dr. W.H. Mess; Co-promotores: Dr. W.E.J. Weber; Dr. A.F.G. Leentjens.

Björn K. Stessel. **Patient centred care after day surgery: scope for improvement.** Supervisors: Prof.dr. W. Buhre; Prof.dr. B. Joosten. Co-supervisor: Dr. A.H. Gramke.

Jan Guy Bogaarts. **Quantitative EEG and machine learning methods for the detection of epileptic seizures and cerebral asymmetry.** Supervisor: Prof.dr. W.M. Mess; Co-supervisor: Dr.ir. J.P.H. Reulen; Dr.ir. E.D. Gommer.

Martin M. Müller. **Pregnancy derived products for treatment of perinatal brain injuries.** Supervisors: Prof.dr. B.W.W. Kramer; Prof.dr. D. Surbek, Bern; Co-supervisors: Dr. T. Wolfs; Dr. G. Gavilanes.

Daan Ophelders. **Novel treatment strategies for the protection of the preterm brain; Rebalancing inflammation and regeneration.** Supervisor: Prof.dr. B. Kramer; Co-supervisor: Dr. T. Wolfs; Dr. R. Jellema.

Rosalie van Knippenberg. **Experience sampling in dementia care; an innovative intervention to support caregivers in daily life.** Supervisors: Prof.dr. F. Verhey; Prof.dr. R. Ponds; Prof.dr. I. Myin-Germeys, KU Leuven; Co-supervisor: Dr. M. de Vugt.

Claudia Vingerhoets. **Investigating neurobiological mechanisms underlying comorbid cognitive symptoms in psychosis and substance use.** Supervisors: Prof.dr. T. van Amelsvoort; Prof.dr. J. Booij, UvA; Co-supervisor: Dr. O. Bloemen

Dennis Oerlemans. **Evolution of Neuromodulation for Lower Urinary Tract Dysfunction; Past, Present and Future.** Supervisors: Prof.dr. Ph. van Kerrebroeck; Prof.dr. G. van Koeveringe. Co-supervisors: Dr. E. Weil; Dr. T. Marcelissen.

Marion Levy. **Evaluation of BDNF/TrkB signaling as a common target in the treatment of major depression and Alzheimer's disease.** Supervisors: Prof.dr. H. Steinbusch; Prof. L. Lanfumey, Université Paris Descartes, France. Co-supervisors: Dr. G. Kenis; Dr. D. van den Hove.

Patrick Domen. **Stay connected: a family-based diffusion imaging study in psychotic disorder.** Supervisor: Prof.dr. J. van Os. Co-supervisor: Dr. M. Marcelis

Geor Bakker. **Innovative Approaches to Understanding the Neurobiology of Psychosis.** Supervisors: Prof.dr. T. van Amelsvoort; Prof.dr. J. Booij, UvA. Co-supervisor: dr. M. Caan, UvA; dr. O. Bloemen.

Wilma Boevink. **HEE! Over Herstel, Empowerment en Ervaringsdeskundigheid in de psychiatrie.** Supervisors: Prof.dr. J. van Os; Prof.dr. Ph. Delespaul. Co-supervisor: dr. H. Kroon.

Natalia Markova . **Modified swim test as a mouse depression paradigm of enhanced Cognitive processing: the role of GSK3 $\beta$ .** Supervisor: Prof.dr. H. Steinbusch; Prof.dr. K-P. Lesch, University of Wuerzburg. Co-supervisor: Dr. T. Strekalova.

Merijn van de Laar. **Individual differences in insomnia; implications of Psychological factors for diagnosis and treatment.** Supervisor: Prof.dr. A. Aldenkamp; Prof.dr. D. Pevernagie, Universiteit Gent. Co-supervisor: Dr. S. Overeem, TUE.

Willem Buskermolen. **If only I could tell ...; Measuring predictors for challenging behaviour in people with both intellectual disability and hearing impairment.** Supervisor: Prof.dr. A. Aldenkamp. Co-supervisor: Dr. J. Hoekman, UL.

Kay Deckers. **The role of lifestyle factors in primary prevention of dementia; an epidemiological perspective.** Supervisor: Prof.dr. F. Verhey. Co-supervisor: Dr. M. van Boxtel; Dr. S. Köhler.

Brechje Dandachi-FitzGerald. **Symptom validity in clinical assessments.** Supervisors: Prof.dr. R. Ponds; Prof.dr. F. Verhey.

Maurice Theunissen. **Understanding factors affecting postoperative Quality of Life.**  
Supervisors: Prof.dr. M. Peters, Prof.dr. M. Marcus. Co-supervisor: Dr. H. Gramke.

Anna Cleutjens. **COgnitive-Pulmonary Disease? Neuropsychological functioning in patients with COPD.** Supervisors: Prof.dr. E. Wouters, Prof.dr. R. Ponds. Co-supervisors: Dr. D. Janssen, Horn, Dr. J. Dijkstra.

Laura Serpero. **Next Generaton Biomarkers in Perinatal Medicine: S100B Protein.**  
Supervisors: Prof.dr. D. Gazzalo, Alessandria, Italy; Prof.dr. B..W.W. Kramer. Co-supervisor: Dr. A.W.D. Gavilanes.

Alessandro Varrica. **S100B Protein and Congenital Heart Diseases: Brain Aspects.**  
Supervisors: Prof.dr. D. Gazzalo, Alessandria, Italy; Prof.dr. J.S.H. Vles; Prof.dr. L.J.I. Zimmermann. Co-supervisor: Dr. A.W.D. Gavilanes.

Pim R.A. Heckman. **Targeting phosphodiesterase type 4 for improving cognitive fronto-striatal function: a translational approach.** Supervisor: Prof.dr. J.G. Ramaekers. Co-supervisors: Dr. J.H.H.J.. Prickaerts; Dr. A. Blokland.

Sven van Poucke. **Platelets, form sample to big data; exploring granularity in platelet research.** Supervisors: Prof.dr. M.A.E. Marcus; Prof.dr. W. Buhre. Co-supervisor: Dr. M. Lancé.

Désirée M.J. Vrijens. **Dysfunctions of the Lower Urinary Tract and Affective Symptoms.**  
Supervisors: Prof.dr. Ph.E.V. van Kerrebroeck; Prof.dr. G.A. van Koevinge. Co-supervisors: Dr. C. Leue.

Tamar van Veenendaal. **Neurotransmitters & Networks. An MR view on epilepsy and antiepileptic drugs.** Supervisors: Prof.dr.ir. W.H. Backes; Prof.dr. A.P. Aldenkamp. Co-supervisor: Dr. J.F.A. Jansen.

Evelien M. Barendse. **Autism Spectrum Disorders in High functioning Adolescents; Diagnostic considerations (AHA).** Supervisors: Prof.dr. A.P. Aldenkamp; Prof.dr. R.P.C. Kessels, Radboud University.

Roy Lardenoije. **A venture into the epigenetics of aging and Alzheimer's Disease.**  
Supervisors: Prof.dr. B.P.F. Rutten; Prof.dr. H.W.M. Steinbusch. Co-supervisors: Dr. D. van den Hove; Dr. C.A. Lemere, USA.

Charlotte L. Mentzel. **The course recognition and treatment of movement disorders in severe mental illness.** Supervisors: Prof.dr. P.N. van Harten; Prof.dr. M.A.J. de Koning-Tijssen, UMCG. Co-supervisor: Dr. P.R. Bakker.

Tim Batink. **Third Wave Behaviour Therapy: Process Measures and Contextual Interventions.** Supervisors: Prof.dr. F.P.M.L. Peeters; Prof.dr. J.J. van Os; Prof.dr. M.C. Wichers, UMC Groningen.



Kevin L.J. Rademakers. **Detrusor Underactivity: From Theory To Clinical Assessment.** Supervisors: Prof.dr. G.A. van Koeveringe; Prof.dr. Ph.E.V. van Kerrebroeck. Co-supervisor: Dr. M. Oelke.

Iris M.J. Lange. **Should I stay or should I go ? Brain mechanisms underlying fear and safety learning, and exposure therapy outcome.** Supervisors: Prof.dr. K.R.J. Schruers; Prof.dr. T.A.M.J. van Amelsfoort. Co-supervisor: Dr. L. Goossens.

Ruben G.F. Hendriksen. **Evidence for a dystrophin-associated encephalopathy in Duchenne Muscular Dystrophy.** Supervisor: Prof.dr. J.S.H. Vles. Co-supervisors: Dr. G. Hoogland; Dr. M.W. Aalbers, UMC Groningen.

Michael Gofeld. **Strengths and limitations of the lumbar spine ultrasound-guided interventions.** Supervisor: Prof.dr. M. van Kleef. Co-supervisor: Dr. M. Sommer.

Willem A.R. Zwaans. **Strategies for chronic inguinal pain.** Supervisor: Prof.dr. M. van Kleef. Co-supervisors: Dr. R.H.M. Roumen; Dr. M.R.M. Scheltinga, MMC Veldhoven.

Linda M. Rolf. **Mapping the effects of vitamin D in multiple sclerosis A 3D Perspective.** Supervisor: Prof.dr. R.M.M. Hupperts. Co-supervisors: Dr. J.G.M.C. Damoiseaux; Dr. J.J.F.M. Smolders, CWZ Nijmegen.

Maarten van Beek. **Spinal Cord Stimulation in Clinical and Experimental Painful Diabetic Polyneuropathy.** Supervisors: Prof.dr. E.A. Joosten; Prof.dr. M. van Kleef. Co-supervisor: Dr. S.M.J. van Kuijk.

Melina Barkhuizen. **Genetic and perinatal risk factors for movement disorders.** Supervisors: prof.dr. B.W.W. Kramer, prof.dr. H.W.M. Steinbusch, Prof.dr. A.F. Grobler. Co-supervisor: dr. A.W.D.Gavilanes-Jimenez.

Renske Uiterwijk. **Cognitive function and cerebral small vessel disease in hypertension.** Supervisor: prof.dr. R.J. van Oostenbrugge. Co-supervisor: Dr. J.E.A. Staals.

Elles Douven. **Depression and apathy after stroke.** Supervisor: prof.dr. F.R.J. Verhey. Co-supervisors: Dr. P. Aalten, dr. J. Staals.

Mauro Pessia. **Brain K<sup>+</sup> Channels: from molecular and physiological features to autism spectrum disorder and intellectual disability.** Supervisors: prof.dr. H.W.M. Steinbusch, prof.dr. M.B. Donati, It.

Carsten Leue. **Hyperarousal in the Hospital and what to do about it: the MED-PSYCH-NET - a transitional network approach fostering personalized care in psychosomatic medicine.** Supervisors: Prof.dr. J. van Os, Prof.dr. A. Masclee. Co-supervisors: Dr. J. Strik, Dr. J. Kruijmel

Andrea S. Herrera Soto. **Aminochrome, an endotoxin for inducing a new rat model of Parkinson's Disease.** Supervisor: prof.dr. H.W.M. Steinbusch. Co-supervisors: Prof.dr. Juan Segura-Aquilar; prof. G. Diaz-Veliz, Santiago of Chile

Eline E.B. de Clerck. **Ocular neurodegenerative changes and macular cysts in prediabetes and type 2 diabetes.** Supervisors: Prof.dr. C.A.B. Webers, Prof.dr. C.D.A. Stehouwer. Co-supervisor: Dr. J.S.A.G. Schouten

Steven T.H. Honings. **Exploring psychosis and multidirectional violence: a prospective study in the general population.** Supervisor: Prof.dr. J. van Os. Co-supervisor: Dr. M. Drukker

## 2018

Sau May Wong. **Advances in Microvasculair MRI Techniques: Breaking the Pathophysiological Barriers in Cerebral Small Vessel Disease.** Supervisor: Prof.dr. W.H. Backes, Prof.dr. R.J. van Oostenbrugge. Co-supervisor: Dr. J.F.A. Jansen

Mark B.N. van Winkel. **Lonely at heart and stressed in company of Others; the influence of daily life social experiences and emotions on depression.** Supervisors: prof.dr. F. Peeters; prof.dr. I. Myin-Germeys, KU Leuven/UM; prof.dr. M. Wichers, UMC Groningen

Harsha Birur Laxmana Rao. **Revisiting the vascular theory of glaucoma using optical coherence tomography angiography.** Supervisors: prof.dr. C.A.B. Webers; prof.dr. R.N. Weinreb, University of California, San Diego

Babette L.R. Reijs. **Cognitive correlates of cerebrospinal fluid biomarkers for Alzheimer's disease.** Supervisor: prof.dr. F.R.J. Verhey. Co-supervisors: Dr. P.J. Visser; dr. I.H.G.B. Ramakers

Rachel Slangen. **Spinal cord stimulation in painful diabetic peripheral Neuropathy. Clinical- and cost-effectiveness.** Supervisors: prof.dr. M. van Kleef; Prof.dr. C. Dirksen; prof.dr. C. Faber

Ganne Chaitanya. **Epilepsy: A network disorder.** Supervisors: prof.dr. A.P. Aldenkamp; prof. P. Satishchandra, NIMHANS, Bangalore, India. Co-supervisors: Dr. J.F.A. Jansen; Dr. S. Zinger, TUE

Sumitha Rajendrarao. **New Insight into the Multifaceted Pathogenic Mechanisms of Sporadic Amyotrophic Lateral Sclerosis.** Supervisors: prof.dr. B.W. Kamer; prof.dr. H.W. Steinbusch. Co-supervisor: prof. T.R. Raju, NIMHANS, Bangalore, India

Suzanne Roggeveen. **Interference of mobile phone with electrophysiology and emotions; results from short-term experimental studies.** Supervisor: Prof.dr. J. van Os. Co-supervisor: Dr. R. Lousberg.

Matthias Walter. **Multi-methodological approaches to investigate lower urinary tract function in health and disease.** Supervisors: Prof.dr. Ph.E.V.A. van Kerrebroek; Prof.dr. G.A. van Koevinge; Prof.dr. A. Curt, Zürich, CH.

Lalit Gupta. **Inhomogeneities in spontaneous brain fluctuations.** Supervisors: Prof.dr. W.H. Backes; Prof.dr. P.A.M. Hofman. Co-supervisor: Dr. J.F.A. Jansen.

Chaitra Jayadev. **Impact of imaging the pediatric retina.** Supervisor: Prof.dr. C.A.B. Webers. Co-supervisor: Dr. N.J.C. Bauer; Dr. A. Vinekar.

Annelie Klippel. **Navigating through complexity; processes and mechanisms underlying the development of psychosis.** Supervisors: Prof.dr. I. Myin-Germeys, KU-Leuven; Prof.dr. M.C. Wichers, UMC Groningen. Co-supervisor: Dr. U. Reininghaus.

Kürşat Altınbaş. **Reconstructing The Diagnostic Framework of Bipolarity.** Supervisor: Prof.dr. J. van Os. Co-supervisor: Dr. I.S. Gülöksüz.

Andrea J.R. Balthasar. **Eyes of the needle; Spectral tissue sensing, an innovative technology for detecting various tissue types during percutaneous needle-based procedures in locoregional anesthesia and pain medicine.** Supervisor: Prof.dr. M. van Kleef. Co-supervisor: Dr. G-J. van Geffen, Radboud UMC Nijmegen.

Walmari Pilz. **Shedding light on oropharyngeal dysphagia in myotonic dystrophy type 1.** Supervisor: Prof.dr. B. Kremer. Co-supervisors: Dr. L.W.J. Baijens; Dr. V. Lima Passos.

Nynke J. van den Hoogen. **Repetitive painful procedures in the neonate: Treatment and adult pain sensitivity.** Supervisors: Prof.dr. E.A.J. Joosten, Prof.dr. D. Tibboel, Erasmus MC-Sophia, Rotterdam. Co-supervisor: Dr. J. Patijn.

Carlota Mestres Gonzalvo. **Medication optimisation; Methodological aspects and new strategies.** Supervisors: Prof.dr. F.R.J. Verhey, Prof.dr. P.H.M. van der Kuy, Erasmus MC Rotterdam. Co-supervisors: Dr. R. Janknegt, Zuyderland MC.

Carolin Hoffmann. **The Brain under Attack: Autoantibodies in Psychotic Disorders.** Supervisors: Prof.dr. P. Martinez, Prof.dr. B. Rutten, Prof.dr. J. van Os, UU/UM.

Jindra M. Bakker. **On the bumpy road of happiness: Mechanisms of daily life reward processing and how it can be changed.** Supervisors: Prof.dr. M. Wichers, UMC Groningen, Prof.dr. I. Myin-Germeys, KU Leuven/UM. Co-supervisor: Dr. L. Goossens.

Marasha-Fiona de Jong. **Between mood and matter; studies on the interface between mood disorders and physical conditions.** Supervisor: Prof.dr. F.P.M.L. Peeters. Co-supervisors: Prof.dr. Mischoulon.

Anouk Smeets. **New insights in deep brain stimulation for Tourette syndrome.** Supervisor: Prof.dr. Y. Temel. Co-supervisors: Dr. L. Ackermans, Dr. A.A. Duits, de. A.F.G. Leentjens.

Margaretha Skowron. **Cisplatin resistance in urothelial carcinoma; Understanding and targeting inherent and acquired mechanisms.** Supervisors: Prof.dr. G.A. van Koeveeringe, Prof.dr. P. Albers, Heinrich-Heine Univ. Düsseldorf. Co-supervisors: Dr. J.G.H. van Roermund, Dr. A. Romano.

Thierry Mentzel. **Capturing the cacophony of movement.** Supervisors: Prof.dr. P.N. van Harten, Prof.dr. H.A.M. Daanen, VUA. Co-supervisor: Dr.mr. O.J.N. Bloemen, GGZ Hilversum/UM.

Petronella de Meij. **Quality indicators for the assessment of pain clinic care: A step forward? Quality from professionals and pain patients' perspective (QiPPP).**

Supervisors: Prof.dr. G.D.E.M. van der Weijden, Prof.dr. M. v. Kleef. Co-supervisor: Dr. A.J.A. Köke.

Thomas Vaessen. **Stress sensitivity in psychosis: assessment, mechanism & intervention.**

Supervisor: Prof.dr. I. Myin-Germeys, KU Leuven/UM.

Yori van der Steen. **Dissecting the psychosis continuum; risk factors along the pathway from experiences to disorder.**

Supervisor: Prof.dr. I. Myin-Germeys, KU Leuven/UM, Prof.dr. R. van Winkel, KU Leuven.

Aryo Zare. **Unveiling the sensory connections between the bladder and the brain that involve the periaqueductal gray matter.**

Supervisor: Prof.dr. G.A. van Koevinge; Co-supervisor: Dr. A. Jahanshahi.

Magdalena Weidner. **Brain serotonin throughout development – for better and for worse.**

Supervisors: Prof.dr. H.W.M. Steinbusch, Prof.dr. K.P. Lesch, JM.Univ. Würzburg. Co-supervisor: Dr. D.L.A. van den Hove.

Catherine Vossen. **Cortical processing of pain; the role of habituation.**

Supervisors: Prof.dr. E.A. Joosten, Prof.dr. J. van Os, UU/UM. Co-supervisor: Dr. R. Lousberg.

Whitney Freeze. **Microvascular contributions to dementia; Exploring the role of blood-brain barrier leakage in cerebral small vessel disease and Alzheimer disease.**

Supervisors: Prof.dr. F.R.J. Verhey, Prof.dr.ir. W.H. Backes. Co-supervisor: Dr. H.I.L. Jacobs.

Simone Schüller. **Characterization of Stem and Immune Cell Ontogeny to Inform**

**Prevention and Treatment of Infections in Preterm Newborns.** Supervisors: Prof.dr.

B.W.W. Kramer, Prof.dr.med. A. Berger, Wien. Co-supervisor: Dr. E. Villamor.

Michael J. Kemna. **Predicting relapses in ANCA associated vasculitis.** Supervisor: Prof.dr.

J.W. Cohen Tervaert. Co-supervisors: Dr. J. Damoiseaux, Dr. P. van Paassen.

Artemis Iatrou. **Epigenetics in mental and neurodegenerative disorders.** Supervisor:

Prof.dr. B.P.F. Rutten. Co-supervisors: Dr. D.L.A. van den Hove, Dr. G. Kenis.

Laura Wielders. **Prevention & Treatment of Cystoid Macular Edema after Cataract**

**Surgery.** Supervisor: Prof.dr. R.M.M. Nuijts. Co-supervisors: Dr. J.S.A.G. Schouten, CWZ

Nijmegen, Dr. B. Winkens.

Daisy Hoofwijk. **The way to understanding Chronic Postsurgical Pain; From clinical and psychological predictors to incorporating genetics.**

Supervisor: Prof.dr. W.F.F.A. Buhre; Prof.dr. E.A.J. Joosten; Co-Supervisor: dr. H.-F. Gramke; dr. A.A.A. Fiddlers.

Loes Leenen. **Self-management in Epilepsy; The Goal is: “Live with a Z(s)mile.**

Supervisors: Prof.dr. H.J.M. Majoie; Prof.dr.mr. S.M.A.A. Evers; Prof.dr. C.M. van Heugten.

Chiara Peila. **Effects of Pasteurization and Refrigerated Storage on Human Milk Neurobiomarkers Concentrations.** Supervisors: Prof.dr. D. Gazzallo, Alessandria, It./MUMC+; Prof.dr. G. Visser, UU; Prof.dr. E. Bertino, Alessandria, It.

Raymond van de Berg. **The Vestibular Implant: Feasibility in humans.** Supervisor: Prof.dr. H. Kingma; Co-supervisor: dr. J.-P. Guyot, Université de Genève, CH.

Nils Guinand. **The Vestibular Implant: a more stable horizon for patients with a bilateral vestibular deficit?** Supervisors: prof.dr. H. Kingma; Prof.dr. J.-P. Guyot, Université de Genève, CH.

Jasper Smit. **Exploring deep brain stimulation as a treatment for tinnitus.** Supervisors: Prof.dr. R.J. Stokroos; Prof.dr. Y. Temel; Co-supervisor: dr. Jahanshahianvar.

Bindu Paravil Sankaran. **Brain MRI in Mitochondrial Disorders: Correlating the Phenotype with Genotype.** Supervisor: Prof.dr. H. Smeets; Prof.dr. A. Taly, NIMHANS, Bangalore, India.

Syenna Schievink. **Vascular cognitive impairment; at the heart of the matter.** Supervisor: Prof.dr. F.R.J. Verhey; Prof.dr. R.J. van Oostenbrugge; Co-supervisor: dr. S. Köhler.

Isabelle Bos. **Biomarkers of Alzheimer's disease; relations with vascular factors and cognition in the pre-dementia stages.** Supervisor: Dr. P.J. Visser; Prof.dr. F.R.J. Verhey; Co-supervisor: dr. S.J.B. Vos.

Stijn Michielse. **Road work ahead; cerebral pathways mediating Psychological mechanisms underlying the psychosis spectrum.** Supervisor: Prof.dr. J.J. van Os; Co-supervisor: dr. M.C. Marcelis.

Georgios Schoretsanitis. **Risperidone-based therapeutic regimens; Drug interactions and adverse drug reactions.** Supervisor: prof.dr. K.R.J. Schruers; Co-supervisor: dr. M. Bak .

Alieske Dam. **INLIFE; An innovative online social support intervention for caregivers of persons with dementia.** Supervisor: Prof.dr. M.E. de Vugt; Prof.dr. F.R.J. Verhey; Co-supervisor: Dr. M.P.J. van Boxtel.

Roel Haeren. **Vascular ventures; Analysis of vascular structures and function in epilepsy.** Supervisor: Prof.dr. Y Temel; Co-supervisor: dr. K. Rijkers; Dr. G. Hoogland.

Chiara Fabbri. **Pharmacogenomics of antidepressant drugs: perspectives for the personalization of treatment in depression.** Supervisors: Prof.dr. K. Schruers; Prof.dr. A. Serretti, Bologna.

Esther van Duin. **Dancing in the (B)rain'; neurobiology of reward, stress & Information processing in 22q11.2 deletion syndrome.** Supervisors: Prof.dr. T. van Amelsvoort; Prof.dr. J. Booij, UvA. Co-supervisor: dr. D. Hernaus.

Rob Verdonschot. **Oropharyngeal dysphagia and its psychiatric Comorbidities; The prevalence of affective symptoms and the unmet clinical need for integrated care in medically unexplained symptoms.** Supervisor: Prof.dr. B. Kremer; Co-supervisors; Dr. L. Bajjens; dr. S. Vanbelle.

Lisanne Breuer. **Accelerated Cognitive Ageing in Epilepsy' Does it Exists?** Supervisors: Prof.dr. A. Aldenkamp; Prof.dr. P. Boon, UZ Gent; Co-supervisors: dr. A. de Louw, Kempenhaeghe, Heeze; dr.ir. S. Zinger, TUE.

Liselot Kerpershoek. **Access to formal dementia care; A European perspective.** Supervisors: Prof.dr. F. Verhey; Prof.dr. M. de Vugt; Prof. B. Woods, Bangor University, UK  
Co-supervisor: Dr. C. Wolfs.

Henrietta Steinhart. **Same Same but Different; Psychological Interventions and how to Mind the Knowledge Practice Gap.** Supervisor: Prof.dr. I. Myin-Germeys. Co-supervisor: Dr. U. Reininghaus.

Ulrich Mehnert. **The management of urine storage dysfunction in the neurological patient.** Supervisors: Prof.dr. G. van Koeveringe; Prof.dr. Ph.van Kerrebroeck; Prof.dr. S. Wachter, Antwerpen; Prof.dr E. Chartier-Kastler, Sorbonne, Paris.

Giovanna B. Diniz. **Weaning-induced alterations on neuropeptidergic populations of the rat hypothalamus.** Supervisors: Prof.dr. H. Steinbusch; Prof.dr. J. Bittencourt, ICB/USP, Brasil.

Rajani Ravindra Battu. **Inherited Retinal Diseases: New Imaging and Molecular Genetics.** Supervisor: Prof.dr. C.A.B. Webers. Co-supervisors:Dr. J.S.A.G. Schouten, CWZ; dr. T.T.J.M. Berendschot.

## 2019

Jans van Ool. **Diagnostic and neuropsychiatric considerations in epilepsy and intellectual disability; Psychological perspectives.** Supervisor: Prof.dr. A. Aldenkamp. Co-supervisors: Dr. J. Hendriksen; Dr. H. Schelhaas, Kempenhaeghe.

Eveline Janssen. **Depression in the elderly: focus on high risk groups.** Supervisors: Prof.dr. F. Verhey; Prof.dr. M. de Vugt. Co-supervisor: Dr. M. Schram.

Cécile Kicken. **Extreme blood coagulation; investigating the influence of physiological extremes on thrombin generation and platelet activation.** Supervisor: Prof.dr. W. Buhre  
Co-supervisors; Dr. B. de Laat; Dr. M. Lancé, Qatar.

Martinus van Eerd. **Diagnosis and Interventional Pain Treatment of Cervical Facet Joint Pain.** Supervisor: Prof.dr. M. van Kleef. Co-supervisor; Dr. J. Patijn, Eindhoven; Dr. M. Sommer.

Chenxing E. Zhang. **Novel insights in the pathophysiology of cerebralsmall vessel disease – a study using advanced imaging techniques.** Supervisors: Prof.dr. R.J. van Oostenbrugge; Prof.dr.ir. W.H. Backes; Co-supervisor: dr. J. Staals.

Ivo Eijkenboom. **A zebrafish model of small-fiber neuropathy.** Supervisors: Prof.dr. H.J.M. Smeets; Prof.dr. C.G. Faber; Co-supervisor: dr. J. Vanoevelen.

Bianca de Greef. **Small fiber neuropathy: from underlying conditions to treatment.** Supervisor: Prof.dr. C.A. Faber; Co-supervisor: Dr. I.S.J. Merkies; Dr. J.G.J. Hoeijmakers.

Lotte Berk. **MINDFULNESS AND AGING: Exploring Mechanisms and Interventions.** Supervisors: Prof.dr. J. van Os; Prof.dr. M.W. de Vugt; Co-supervisor: dr. M.P.J. van Boxtel.

Mor Dickman. **Practice patterns and outcomes of corneal transplantation.** Supervisor: Prof.dr. R.M.M.A. Nuijts; Co-supervisors: Dr. T.J.M. Berendschot; dr. F.J.H.M. van den Biggelaar.

Thyagi Ponnampereuma. **Mental Health Problems in Sri Lankan Adolescents Exposed to the Tsunami and Other Traumatic Events.** Supervisor: Prof.dr. M.W. De Vries; Co-supervisor: Dr. N.A. Nicolson.

Robbert C. Maatman. **Anterior cutaneous nerve entrapment syndrome (acnes): an analysis of various subtypes and alternative treatment modalities.** Supervisor: Prof.dr. M. van Kleef; Co-supervisors: Dr. R.M.H. Roumen, dr. M.R.M. Scheltinga.

Mari Elshout. **Neovascular Age-Related Macular Degeneration in the Era of Value-Based Health Care.** Supervisor: Prof.dr. C.A.B. Webers; Co-supervisor: Dr. J.S.A.G. Schouten.

Jeroen Deenik. **Thinking inside the box; Changing lifestyle to improve the health status of inpatients with severe mental illness.** Supervisor: Prof.dr. P.N. Harten; Co-supervisors: Dr. D.E. Tenback; dr. I.J.M. Hendriksen.

Thomas Draak. **Peripheral Neuropathy outcome measures Standardisation (PeriNomS) study part 3: Capturing the Patient's Voice.** Supervisor: Prof.dr. C.G. Faber; Co-supervisor: Dr. I.S.J. Merkies.

Ana Luisa Gil Martínez. **Neuroprotection in neurodegenerative processes associated with Parkinsonism and aging. Correlation between dopaminergic neuronal death and glial activation.** Supervisor: Prof.dr. H.W.M. Steinbusch, Prof.dr. Maria-Trinidad Herrero Ezquerro, University of Murcia.

Bernice J.A. Gulpers. **Anxiety in older adults; Correlates, comorbidities and prognosis with lifespan perspectives.** Supervisor: Prof.dr. F.R.J. Verhey, Prof.dr. R.C. Oude Voshaar; Co-supervisor: Dr. S. Köhler.

Elke Devocht. **Combining a cochlear implant and a hearing aid in opposite ears: The best of both worlds.** Supervisor: prof.dr. H. Kingma; co-supervisor: dr. E.I.J. George.

Gillian Townend. **Rett Syndrome: Recognising the Communication Challenges, Needs and Potential of Individuals Living with a Rare Disease.** Supervisor: Prof.dr. L.M.G. Curfs; co-supervisor: Dr. P.B. Marschik, Med. University of Graz, Austria.

Takashi Koizumi. **Genetic and neuroinflammatory components of familial and sporadic cerebral Small Vessel Disease.** Supervisor: Prof.dr. H. Steinbusch, Prof.dr. T. Mizuno, Japan; co-supervisor: Dr. S. Foulquier.

Muhammad Ali. **Integrative network-based approaches for modelling Human disease.** Supervisor: Prof.dr. J. Kleinjans; co-supervisor: Dr. D. van den Hove; Dr. E. Pishva.

Guillaume Durand. **The adaptive side of psychopathy. Investigating adaptive characteristics associated with the psychopathic personality.** Supervisor: Prof.dr. B. Rutten; co-supervisor: Dr J. Lobbestael.

Darius C. Henatsch. **Honey: A Novel Treatment in Chronic Ear Infections.** Supervisor: Prof.dr. R.J. Stokroos; UMC Utrecht/UM; co-supervisor: Dr. J.J. Briedé.

Reinhilde J. Melles. **Vaginal penetration: pain or pleasure? The role of fear and sexual arousal.** Supervisor: Prof.dr. M.L. Peters; co-supervisor: Dr. M. ter Kuile, LUMC, Dr. M. Dewitte.

Raul Felipe Abella Antón. **Cardiac Surgery Biochemical Monitoring in Congenital Heart Diseases Infants.** Supervisors: Prof. dr. D. Gazzolo, Prof. dr. L.J.I. Zimmermann, Prof. dr. J.S.H. Vles, co-supervisor; Dr. A.W.D. Gavilanes.

Francesca M. Snoeijen-Schouwenaars. **Diagnostic, neuropsychiatric and therapeutic considerations in epilepsy and intellectual disability – medical perspectives –.** Supervisor: prof.dr. A.P. Aldenkamp, co-supervisors: Dr. H.J. Schelhaas, SEIN Zwolle; dr. J.G.M. Hendriksen, Kempenhaeghe, Heeze.

Mariëlle H.J. Pruppers. **Peripheral Neuropathies: Standardizing Functional Assessment.** Supervisors: prof.dr. C.G. Faber; prof.dr. N.C. Notermans, UU;Dr. I.S.J. Merckies, ius promovendi.

Shenghua Zong. **Autoantibodies in disorders of the brain: expanding the spectrum.** Supervisor: prof.dr. P. Marinez; co-supervisor: dr. M. Losen; dr. R. Rouhl.

Jan-Willem Kallewaard. **Diagnosis and minimally invasive treatment of chronic discogenic low back pain.** Supervisor: prof.dr. M. van Kleef; co-supervisors: prof.dr. H. van Santbrink; dr. P. Willems.

Simone M. Crivelli. Sphingolipid metabolism in the pathophysiology and treatment of Alzheimer's disease. Supervisors: prof.dr. P. Martinez-Martinez; prof.dr. E. de Vries, VUmc. Co-supervisors: dr. M. Losen; dr. M. Mulder, Rotterdam.

Natasha Pahuja. **Etiopathogenesis, advanced imaging and treatment outcomes in Asian Indians with keratoconus.** Supervisor: prof.dr. R. Nuijts, co-supervisor: dr. R. Shetty, Bengaluru.

Pooja Khamar Mayur Raksha. **Clinical, Molecular and Biomechanical outcomes of SMILE (small incision lenticule extraction) and other refractive surgery techniques.** Supervisor: prof.dr. R. Nuijts, co-supervisor: dr. R. Shetty, Bengaluru.

Niels Janssen. **Patterns and pathways. Indicators for potential improvements of dementia care.** Supervisors: prof.dr. F. Verhey; prof.dr.mr. S. Evers; Co-supervisor: dr. R. Handels.



Giovanni Mansueto, **Childhood adversities and Psychosis: investigation of the potential aetio-pathogenetic mechanisms.** Supervisor: prof.dr. K. Schruers; co-supervisors: prof.dr. F. Cosci, University of Florence, It; prof.dr. R. van Winkel, KU Leuven.

Joke Debruyne, **Cochlear implantation in adults with early-onset deafness.** Supervisors: prof.dr. B. Kremer; prof.dr.ir. T. Francart, KU Leuven; Co-supervisor: dr.ir. J. Brokx.

Koenraad Meuwissen, **Burst Spinal Cord Stimulation in a Rat Model of Chronic Neuropathic Pain: Spinal and Supraspinal Mechanisms.** Supervisors: prof. dr. E.A.J. Joosten; prof. dr. M. van Kleef.

Lisa Schmiedek, **Episodic memory in ageing and AD: a possible target for electrical stimulation ?** Supervisors: prof. dr. F.R.J. Verhey; prof. dr. A.T. Sack; co-supervisor: dr. H.I.L. Jacobs

Paolo Maino, **Implantable Intrathecal Drug Delivery in Treatment of Chronic Intractable Pain and Spasticity: Improvement of Safety and the Use of Imaging Techniques.** Supervisors: prof. dr. E.A. Joosten; prof. dr. M. van Kleef.

José Geurts, **Chronic Pain; Impact of Chronic Pain on a Societal, Personal, and Treatment Level.** Supervisors: prof. dr. C.D. Dirksen; prof.dr. M. van Kleef; co-supervisor: dr. P.C. Willems.

Brigitte Brouwer, **Painful Small Fiber Neuropathy; Symptoms, assessments and interventions.** Supervisor: prof. dr. C.F. Faber; co-supervisors: dr. I.S.J. Merkies, Willemstad, Curaçao; dr. J.G.J. Hoeijmakers.

Ruth Gussenhoven, **Antenatal inflammatory insults and preterm brain injury: Pathophysiology and therapeutic strategies.** Supervisors: prof. dr. B.W. Kramer; prof. dr. L.J.I. Zimmermann; Dr. T.G.A.M. Wolffs.

Adriana (Janine) Collet, **Specific Care on the Interface of Mental health and Nursing home “SpeCIMeN”.** Supervisors: prof. dr. M.E. de Vugt; prof. dr. J.M.G.A. Schols; Prof. dr. F.R.J. Verhey.

Fares Nigim, **Glioblastoma and Meningioma Biology, Targeted Therapy and Oncolytic Virus Therapy.** Supervisors: prof. dr. Y. Temel; prof. dr. S.D. Rabkin, Harvard; co-supervisors: dr. H. Wakimoto, Harvard; dr. L. Ackermans.

Leonie Banning, **Neuropsychiatric symptoms in Alzheimer’s disease; Associations with biomarkers.** Supervisor: prof. dr. F.R.J. Verhey; co-supervisors: dr. P. Aalten; Dr. I.H.G.B. Ramakers.

Johan Haumann, **Prevalence and pharmacological treatment of pain in patients with cancer; The role of opioids with and without NMDA receptor affinity.** Supervisor: prof.dr. E.A. Joosten; co-supervisors: Prof.dr. M.H.J. van den Beuken-van Everdingen; dr. S.M.J. Van Kuijk.

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Nikos Priovoulos, **Structural and functional imaging of the locus coeruleus at 7T: from methodological to clinical application**. Supervisor: prof.dr. F.R.J. Verhey; co-supervisors: Dr. H.I.L. Jacobs; dr. B.A. Poser.

Simone Verhagen, **The power of individual landscapes; A clinical exploration of personal experience sampling and new horizons**. Supervisors: prof.dr. P.A.E.G. Delespaul; prof.dr. J.J. van Os, UM/UU; co-supervisor: dr. C.J.P. Simons.

Nagy Youssef, **Epigenetics, resilience and brain stimulation: advances in the mechanistic and therapeutic utility in patients with affective (PTSD and mood) disorders**. Supervisor: Prof.dr. B.P.F. Rutten; co-supervisor: Prof. dr. P. Sienaert, KU Leuven.

Abhishek Appaji, **Retinal vascular features as a biomarker for psychiatric disorders**. Supervisor: Prof. Dr. C.A.B. Webers; co-supervisor: Dr. T.T.J.M. Berendschot, Dr. Naren P. Rao.

Koos Hovinga, **Angiogenesis Inhibition in Glioblastoma**. Supervisor: prof. dr. Y. Temel; co-supervisor: Prof. V. Tabar, New York, USA.

Gerhard Drenthen, **Myelin and networks, Magnetic Resonance Imaging in Epilepsy**. Supervisors: prof.dr.ir. W.H. Backes; Prof.dr. A.P. Aldenkamp; co-supervisor: dr. J.F.A. Jansen.

Anna Gorlova, **Understanding the Molecular Mechanisms of Aggression in BALB/C and TPH2-Deficient Mice**. Supervisor: prof.dr. K. Lesch, Universitätsklinikum Würzburg, co-supervisors: dr. T. Strekalova; prof.dr. L. Bettendorff, University of Liège.

Ekaterina Veniaminova, **The impact of the ‘Western Diet’ on Emotional, Social and Cognitive Behaviours as revealed by a study on conventional and serotonin Transporter-Deficient Mice**. Supervisor: prof.dr. K. Lesch, Universitätsklinikum Würzburg, co-supervisors: dr. T. Strekalova; prof. D.C. Anthony, Oxford.

Dmitrii Pavlov, **The contribution of CNS inflammation and Glycogen Synthase Kinase-3 (GSK-3)-cascades on adverse memory learning on mouse models of emotional stress**. Supervisor: prof.dr. K. Lesch, Universitätsklinikum Würzburg, co-supervisors: dr. T. Strekalova; prof.dr. L. Bettendorff, University of Liège.

Eric Fonseca Wald, **Absence Epilepsy and Panayiotopoulos Synrome: Neurocognition and Brain Development**. Supervisor: prof.dr. R.J. Vermeulen; co-supervisors: Dr. S. Klinkenberg; dr. M.J.A. Debeij-van Hall; Dr. J.G.M. Hendriksen, Epilepsiecentrum Kempenhaeghe.

Kimberley S. Noij, **Cervical vestibular evoked myogenic potentials; Toward optimizing clinical use**. Supervisors: prof.dr. H. Kingma; prof. S.D. Rauch, MD, Massachusetts Eye and Ear, Harvard; co-supervisor: Dr. R. van de Berg.

Mark J. van Tilburg, **Advancement in cVEMP's**. Supervisors: prof.dr. H. Kingma; prof.dr. S. Rauch, Harvard; co-supervisors: dr. R. van de Berg; dr. B. Herrmann, Boston.