



NEURO day 2025

22 May 2025

Overview posters

Research posters

Core facility / service offer posters

Research team posters

Poster area 1 (P1-36, Hall Building Q)

P1 - Sara Op de Beeck (A-SLEAP, Translational neurosciences): Non-invasive site of collapse detection in obstructive sleep apnea patients

P2 - Elissa Embrechts (MOVANT): Gaze control during walking: a gateway to understanding sensory and cognitive functioning, dynamic postural control, and fall risk in older adults?

P3 - Antwerp Social Lab

P4 - Jannis Koesling (Bio-Imaging Lab): Unraveling how locus coeruleus activity mechanistically shapes brain network activity to govern context-dependent cognitive behavior

P5 - Celeste Laureysen (Complex Genetics of AD): Integrating Neuropathology to Refine Genetic Risk in Alzheimer's Disease

P6 – Slegers Lab, VIB-CMN

P7 - Charissa Calemi (Experimental Neurobiology Unit): Bridging the Gap Between Early Non-Invasive Markers and Neural Changes in Neurodegenerative Diseases

P8 - An-Marie Schyvens (Laboratory of Experimental Medicine and Pediatrics): A performance validation of six commercial wrist-worn wearable devices for sleep stage scoring compared to polysomnography

P9 - BIL-MICA Core Facility

P10 - Kato Nauwelaers (Complex Genetics of Alzheimer's Disease group): Dissecting ABCA7's role in Alzheimer's Disease Through Microglial Transcriptomics

P11 - Gianni Rahou (Bio-Imaging Lab): Resting-State Co-Activation Patterns in Pre-Dementia Alzheimer's Disease Patients: A Potential Early Marker?

P12 – Laboratory of Cell Biology and Histology

P13 - Aurélie Hofkens (Laboratory of Cell Biology and Histology): Unravelling SAA-mediated immune responses to bacterial-derived amyloids in the central nervous system

P14 - Marijke Vandebergh (Rademakers Lab, VIB-CMN): Gene specific effects on brain volume and cognition of TMEM106B in frontotemporal lobar degeneration

P15 - IBB-NeuroBioBank

P16 - Claudia Schrauwen (Bio-Imaging Lab): Longitudinal in vivo assessment of tissue alterations and synaptic density as non-invasive biomarkers for traumatic spinal cord injury

P17 - Lien Van Laer (MOVANT): Postural responses to otolith-specific gait tasks in vestibular patients

P18 - [Jordanova Lab, VIB-CMN](#)

P19 - Winde Hilven (Bio-Imaging Lab): Evaluating structural alterations and neuroinflammation in a non-human primate model of Batten Disease

P20 - Ella Torbeyns (Slegers Lab): From GWAS to Function: Prioritizing Genes in Neurodegenerative Brain Disease Risk Loci through Cell-type-specific Transcript eQTL Mapping

P21 - [Biomina Core Facility](#)

P22 - Siebe Van Calster (Laboratory of Experimental Hematology): Multi-omics analysis reveals ischemic stroke-like features in matured iPSC-derived neurospheroids after oxygen-glucose deprivation/reoxygenation

P23 - Noortje Zonnekeijn (Weckhuysen Lab, VIB-CMN): Understanding KCNQ2-encephalopathy: Leveraging human stem cell-derived neuronal models to uncover disease mechanisms and develop therapeutic solutions

P24 - [Weckhuysen Lab, VIB-CMN](#)

P25 - Anke Claessens (Peripheral Neuropathy Research Group): Targeting axonal transport defects in Charcot-Marie-Tooth disease type 2J

P26 - Sarah De Beuckeleer (Laboratory of Cell Biology and Histology): Mapping the cell state plasticity of patient-derived glioma stem-like cells

P27 – [Antwerp Centre for Advanced Microscopy](#)

P28 - Elise Van Breedam (Laboratory of Experimental Hematology): The study of alpha-synuclein pathology and related neuroinflammation in a human brain-like context: a human neurospheroid approach

P29 - Isa Decuypere (Laboratory of Cell Biology and Histology): Defining the role of nuclear envelope stress in glioblastoma

P30 – [Peripheral Neuropathy Research Group](#)

P31 - Melanie Van Brussel (Peripheral Neuropathy Research Group): Development of a 2D Co-Culture System to Uncover Schwann Cell-Macrophage Interactions in CMT1A

P32 - Miranda Lastra Osua (Rademakers and Mancuso Lab, VIB-CMN): TMEM106B Loss-of-function dysregulated the pre-synaptic proteome in human iPSC-derived cortical neurons

P33 - [VIB Tech Satellite](#)

P34 - Antonia Lefter (UZA Neurology): Therapeutic strategies in demyelinating neuroinflammatory disorders of the central nervous system

P35 - Gabriele Petraityte (Bio-Imaging Lab): Structural and Resting-State Effective Connectivity in a Non-Human primate Model of Huntington's Disease

P36 - [Malysheva Lab, VIB-CMN](#)

Poster Area 2 (P37-48, Foyer)

P37 - Andrea Estevez Velez (Bio-Imaging Lab): Exploring the impact of somatic instability in Huntington's disease on tissue microstructure using in vivo MRI

P38 - Marthe Van Overbeke (MOVANT): Effectiveness of an eHealth self-management support program for persistent pain after breast cancer treatment: a study protocol

P39 - MOVANT

P40 - Sanne Engelen (OSA research team): Individualized Optimization of Mandibular Advancement Devices in Obstructive Sleep Apnea: A Clinical Outcome Analysis

P41 - Michiel Nuyts (Bio-Imaging Lab): Co-activation pattern analysis on resting-state fMRI data in people with Huntington's Disease

P42 - Iris Meuwissen (MOVANT): Is autonomic function associated with (central) pain processing in individuals with chronic pain? A systematic review

P43 - Lori Berckmans (Bio-Imaging Lab): Assessing non-invasive quantitative methods for [18F]SynVesT-1 PET imaging of synaptic vesicle glycoprotein 2A in the rat brain

P44 - Yana van de Poll (Experimental Neurobiology Unit): The Birth of Connections: How Embryonic Progenitor Diversity Shapes Striatal Circuitry

P45 - De Schepper Lab, VIB-CMN

P46 - Baukje Bijmens (MIND lab): Hexanucleotide repeat expansions in C9orf72 impair microglial activation and result in a defective glial response in ALS

P47 - Jana Osstyn (Vision Lab): Delta-MRI: a framework for direct deformation estimation from longitudinally acquired single-coil and multi-coil MRI data

P48 - Jet De Brouwer (Molecular Imaging Center Antwerp): Validation and non-invasive kinetic modelling of [18F]BCPP-EF PET imaging in mice

Poster Area 3 (P49-66, Foyer)

P49 - Yasmin Cras (Experimental Neurobiology Group): Investigating the effect of histamine hypofunction on the development of the bed nucleus of the stria terminalis (BNST) and Tourette's syndrome (TS)

P50 - Marion Decrop (Bio-Imaging Lab): Exploring Dopaminergic Pathways in the Brain Using Preclinical Pharmacological MRI

P51 - Jade Mosselmans (MOVANT): The effectiveness of a structured exercise program in preventing chemotherapy-induced peripheral neuropathy: protocol for a randomized controlled trial.

P52 - Pascuito Lab, VIB-CMN

P53 - Clara Milián Alastruey (Pascuito lab): Exploring the role of the immune system in a model of Helmsmoortel-van der Aa syndrome

P54 - Luís-Jorge Amaral (FAMPOP - Global Health Institute - Neglected Tropical Diseases Team): High epilepsy prevalence and excess mortality in onchocerciasis-endemic counties of South Sudan: A call for integrated interventions

P55 - Eva Wachtelaer (Collaborative Antwerp Psychiatric Research Institute): Vulnerability and resilience for mental illness following viral infections in the NESDA deep-phenotyped longitudinal cohort

P56 - Paulien Meulemeester (Molecular Imaging Center Antwerp): Endocannabinoid Neuroenzyme PET Imaging in Huntington's Disease mice

P57 - Zoë Laermans (Bio-Imaging Lab): Investigating microstructural and histological alterations in a graded contusion rat model of spinal cord injury

P58 - Michel Mertens (MOVANT): Autonomic Nervous System Function and Central Pain Processing in People With Frozen Shoulder. A Case-control Study

P59 - Camilla Scarpellini (Medicinal Chemistry): Promising ferroptosis inhibitors to treat central nervous system diseases

P60 - Hanane Kachar (Experimental Neurobiology Unit): From noise to neurons: A pilot study investigating the effects of noise-induced hearing loss and noise trauma on cognitive decline in CDH23c.753A>G-corrected C57BL/6N mice

P61 - Marine Liesse (Vision Lab): A Data-driven Approach to Microstructural Imaging (ADAMI)

P62 - Joëlle van Rijswijk (Bio-Imaging Lab): Longitudinal assessment of changes in the BBB water permeability in a mouse model of Huntington's disease using multi-TE ASL MRI

P63 – Bio-Imaging Lab

P64 - μ NEURO Centre of Excellence

P65 - Vanshika Bidhan (Rademakers Lab, VIB-CMN): Understanding the role of somatic mutations in TARDBP in FTLD-TDP type C

P66 - Mathijs van der Lei (MEDGEN): Screen to Cure: SCREEN4PN & MouseKing