

# **MSCA on ECTRIMS 2021**

**7x presentations, 25 posters**

## **PRESENTATIONS**

### **Wednesday 13 October**

**Axel Petzold 12:25 (001)**

**Hot Topic 1: Disease progression: how to define, how to monitor**  
OCT

### **Thursday 14 October**

**Tommy Broeders 12:56 (051)**

**Scientific Session 5: IMSCOGS**

Cognitively impaired MS patients become stuck in a state of high within-network connectivity

**Marijn Huiskamp 15:12 (082)**

**Young Scientific Investigators' Session 1: Pathogenesis and natural history**

Inhibitory synaptic loss and network dysfunction in MS: an ex vivo to in-silico translational study

**Charlotte Teunissen 15:20 (086)**

**Scientific Session 10: Body-fluid biomarkers**

Emerging biomarkers

### **Friday 15 October**

**Ka Hoo Lam 12:56 (124)**

**Scientific Session 12: Patients' perspectives**

Smartphone monitoring of cognition and walking function in multiple sclerosis

**Hanneke Hulst 17:04 (188)**

**Scientific Session 18: Late Breaking News**

[11C]flumazenil positron emission tomography in multiple sclerosis: model validation and clinical applicability in cognitive impairment

**Bernard Uitdehaag 18:55**

**Plenary Session 2 : Awards, ECTRIMS Honorary Members, Charcot Lecture and ECTRIMS 2021 Highlights**

Welcome to Amsterdam for ECTRIMS 2022

## POSTERS

### eP39 Symptoms Management (including cognition, fatigue, imbalance)

#### **Frederik Barkhof (P883)**

Relationships between Brain Volume and disability, cognition, motor function, and MS-fatigue in RMS: MS-fatigue and ambulation move at their own pace

### eP15 Neuro-ophthalmology

#### **Jenny Nij Bijvank (P282)**

Are eye movements and brain networks connected in multiple sclerosis?

#### **Jenny Nij Bijvank (P286)**

Longitudinal changes of the inner nuclear layer in multiple sclerosis: a marker for burn out of retinal inflammation?

#### **Sam Hof (P287)**

Prevalence of internuclear ophthalmoplegia in a population based cohort of patients with multiple sclerosis

### eP41 Others

#### **Alyssa Toorop (P895)**

The wearing-off phenomenon of ocrelizumab in patients with multiple sclerosis

### eP34 Risk management for disease modifying treatments

#### **Zoé van Lierop (P757)**

Personalized B-cell tailored dosing of ocrelizumab in patients with multiple sclerosis during the COVID-19 pandemic

**Poster Tour 8 - Therapies, Thursday 14 October 18:00 - 18:45**

### eP31 Immunomodulation/Immunosuppression

#### **Alyssa Toorop (P662)**

Personalized extended interval dosing of natalizumab in relapsing remitting multiple sclerosis - a prospective multicenter trial in The Netherlands

### eP29 - Fluid Biomarkers

#### **Floor Loonstra (P573)**

Serum neurofilament light as a biomarker of disability and neurodegeneration in MS patients of the same age

### eP17 Digital health and global networks

#### **Ka Hoo Lam (P302)**

Passively acquired smartphone keystroke dynamics are associated with clinical outcomes in multiple sclerosis: a longitudinal analysis

#### **Ka Hoo Lam (P307)**

Passively collected smartphone-based keystroke dynamics could classify disease severity within MS based on a machine learning approach

## **eP27 MRI & PET**

### **Stefanos Prouskas (P406)**

Decreased functional dynamics of thalamocortical states in cognitively impaired multiple sclerosis patients

### **Piet Bouman (P425)**

Histopathological validation of artificial double inversion recovery images for MR cortical lesion detection

### **Rozemarijn Mattiesing (P430 )**

Development and Interrelation of Whole-Brain Atrophy and Lesion Volume During 5 Years' Treatment With Subcutaneous Interferon Beta-1a in Patients With a First Clinical Demyelinating Event in the REFLEX/ION Study

### **Maureen van dam (P434)**

Decoupling of structural and functional connectivity towards progressive MS is related to cognitive impairment but not disability

### **Marijn Huiskamp (P462)**

Thalamic glutamate concentrations relate to cognitive functioning in multiple sclerosis

### **Reinier de Ruiter (P466)**

Neuroinflammation and neurodegeneration in MS at age 53: Descriptions from a birth cohort.

### **Piet Bouman (P470)**

Cognitive phenotypes and their associated MRI patterns

### **Merlin Weeda (P472)**

NODDI enables detection of subtle WM changes that lead to thalamic atrophy in subjects with RRMS

### **Hugo Vrenken (P487)**

MS-specific deep learning segmentation of deep gray matter

### **Marieke van Lingen (P488)**

The effect of dimethyl fumarate on white matter integrity and cognitive functioning 6-18 months after initiation of treatment in patients with relapsing-remitting multiple sclerosis.

### **Samantha Nooteboom (P509)**

The clinical relevance of whole brain atrophy patterns in patients with longstanding multiple sclerosis

### **Menno Schoonheim (P511)**

Structure-function coupling of long-range connections in the theta band relates to cognitive impairment in multiple sclerosis

### **Ingrid Anne Lie (P517)**

The effect of gadolinium-based contrast-agents on automated atrophy measurements by FreeSurfer in patients with multiple sclerosis

#### **eP04 Neuropsychology**

##### **Maureen van dam (P070)**

The role of serum biomarkers in predicting cognitive status in people with multiple sclerosis

##### **Maureen van Dam (P084)**

Cognitive functioning in everyday life: The development of a questionnaire on instrumental activities of daily living in multiple sclerosis