



EUROPEAN COMMITTEE FOR TREATMENT AND RESEARCH IN MULTIPLE SCLEROSIS

## ECTRIMS-MAGNIMS MAGNETIC RESONANCE IMAGING IN MULTIPLE SCLEROSIS FELLOWS

### 2021 Awardees

**Fellow:** Gerard Martí-Juan, PhD

**Research Topic:** The Virtual Brain: generative wholebrain models in Multiple Sclerosis

**Fellowship Institution:** Vall d’Hebron University Hospital,Neuroradiology, Barcelona, Spain

**Mentor:** Deborah Pareto, Jaume Sastre-Garriga, Àlex Rovira.

**Fellowship Duration:** 1 year

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**Fellow:** Guiseppe Pontillo, Dr

**Research Topic:** Towards a unified brain network model in multiple sclerosis: a multilayer coreness analysis of structural, diffusion, and resting-state functional MRI data

**Fellowship Institution:** UCL Queen Square Institute of Neurology, Faculty of Brain Sciences, University College London, London, UK

**Mentor:** Frederick Barkhof, Prof

**Fellowship Duration:** 1 year

**2020 Awardees**

**Fellow:** **Monica Margoni, MD**

**Research Topic:** Exploring in-vivo brain myelin content in patients with multiple sclerosis through the T1/T2 ratio mapping: a multicenter study

**Fellowship Institution:** Neuroimaging Research Unit, Division of Neuroscience, IRCCS San Raffaele Scientific Institute, Milan, Italy

**Mentor:** Prof. Massimo Filippi

**Fellowship Duration:** 1 year

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**Fellow:** **Antonio Carotenuto, Dr.**

**Research Topic:** Network centrality in multiple sclerosis

**Fellowship Institution:** Neuroimaging of CNS White Matter Unit, Division of Neuroscience, IRCCS San Raffaele Scientific Institute, Milan, Italy

**Mentor:** Mara Rocca, MD

**Fellowship Duration:** 1 year

**2019 Awardees**

**Fellow:** **Lukas Haider, PhD**

**Research Topic:** “Dirty” Virchow Robin Spaces in Controls and MS-Histological Clinical Validation of a Novel MRI Feature

**Fellowship Institution:** UCL Institute of Neurology, London

**Mentor:** Prof. Barkhof, Dr. Chard and Prof. Ciccarelli

**Fellowship Duration:** 1 year

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**Fellow:** **Rosa Cortese, PhD**

**Research Topic:** Towards a better understanding of MOG-Antibody-associated disease and new MAGNIMS MRI criteria

**Fellowship Institution:** University of Siena, Italy

**Mentor:** Prof. Ciccarelli and Prof. De Stefano

**Fellowship Duration:** 1 year

## 2018 Awardees

**Fellow:** **Alberto Calvi, PhD**

**Research Topic:** Slowly Evolving Lesions (SELs) in multiple sclerosis

**Fellowship Institution:** Queen Square Multiple Sclerosis Centre, University College London, United Kingdom

**Mentor:** Prof. Barkhof and Prof. Ciccarelli

**Fellowship Duration:** 1 year

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**Fellow:** **Margareta Clarke, PhD**

**Research Topic:** Iron rims around multiple sclerosis lesions. A new MRI marker of disease activity and progression?

**Fellowship Institution:** Hospital Universitari Vall d'Hebron, Barcelona, Spain

**Mentor:** Prof. Rovira

**Fellowship Duration:** 1 year

## 2017 Awardees

**Fellow:** **Soheil Damangir, PhD**

**Research Topic:** Optimizing crowd-sourced solutions toward generating large reference datasets for WM lesion segmentation in MS

**Fellowship Institution:** VU University Medical Center, Amsterdam, Netherlands with collaboration at the Vall d'Hebron University Hospital, Barcelona, Spain

**Mentor:** Dr. Vrenken and Prof. Barkhof

**Fellowship Duration:** 1 year

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**Fellow:** **Marcello Moccia, PhD**

**Research Topic:** Improving longitudinal spinal cord atrophy measurements for clinical trials in multiple sclerosis by using the Generalised Boundary Shift Integral (GBSI)

**Fellowship Institution:** UCL Institute of Neurology, National Hospital for Neurology & Neurosurgery, Queen Square, London, United Kingdom

**Mentor:** Prof. Ciccarelli and Prof. Barkhof

**Fellowship Duration:** 1 year

## 2016 Awardees

**Fellow:** **Alessandro d'Ambrosio, MD**

**Research Topic:** Relating functional connectivity to cognition in multiple sclerosis: from stationary to time-varying analysis of strategic large-scale networks

**Fellowship Institution:** Ospedale San Raffaele, Neuroimaging Research Unit, Milan, Italy

**Mentor:** Prof. Massimo Filippi

**Fellowship Duration:** 1 year

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**Fellow:** **Sara Collorone, MD**

**Research Topic:** To investigate how longitudinal changes in Structural Cortical Networks relate to disease evolution in Clinically Isolated Syndrome using 3D T1-weighted high-resolution scans from the MAGNIMS CIS cohort

**Fellowship Institution:** UCL Institute of Neurology, National Hospital for Neurology & Neurosurgery, Queen Square, London, UK

**Mentor:** Dr. Ahmed Toosy and Prof. Frederik Barkhof

**Fellowship Duration:** 1 year

## 2015 Awardees

**Fellow:** **Mohammad Aboulwafa, MD**

**Research Topic:** Whole-cord and voxel-based assessment of cervical cord atrophy in MS patients with different clinical phenotypes: a multi-centre assessment

**Fellowship Institution:** Neuroimaging Research Unit, INSPE, Division of Neuroscience, San Raffaele Scientific Institute and Vita-Salute San Raffaele University, Milan, Italy

**Mentor:** Prof. Massimo Filippi

**Fellowship Duration:** 1 year

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**Fellow:** **Arman Eshaghi, MD, PhD**

**Research Topic:** To explore imaging phenotypes of patients with multiple sclerosis using 4-dimensional voxel-based morphometry

**Fellowship Institution:** UCL Institute of Neurology, National Hospital for Neurology & Neurosurgery, Queen Square, London, UK

**Mentor:** Prof. Olga Ciccarelli

**Fellowship Duration:** 1 year

## 2014 Awardees

**Fellow:** **Mariano Cabezas Grebol, PhD**  
**Research Topic:** Automatic detection and analysis of new lesions in serial MRI of MS patients  
**Fellowship Institution:** Fundacio Hospital Universitari Vall d'Hebron, Institut de Recerca, Barcelona, Spain  
**Mentor:** Dr. Alex Rovira  
**Fellowship Duration:** 1 year

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**Fellow:** **Yaou Liu, MD, PhD**  
**Research Topic:** Validation of deep gray matter atrophy measurement in Multiple Sclerosis for multi-center studies: a MUSCAT project  
**Fellowship Institution:** MS Center Amsterdam, VU University Medical Center, Amsterdam, Netherlands  
**Mentor:** Prof. Frederic Barkhof  
**Fellowship Duration:** 1 year

## 2013 Awardees

**Fellow:** **Alvino Bisecco, MD**  
**Research Topic:** Disconnection and regional WM change WRT cognition in setting of Multicentre MAGNIMS study  
**Fellowship Institution:** Neuroimaging Research Unit, INSPE, Division of Neuroscience, San Raffaele Scientific Institute and Vita-Salute San Raffaele University, Milan, Italy  
**Mentor:** Prof. Massimo Filippi  
**Fellowship Duration:** 1 year

## 2012 Awardees

**Fellow:** **Özgür Yaldizli, MD**  
**Research Topic:** The dynamics of cortical grey matter lesion and non-lesional abnormalities and its correlation with clinical and cognitive measures in MS: a serial magnetic resonance imaging study  
**Fellowship Institution:** University College of London, London, United Kingdom  
**Mentor:** Prof. David Miller  
**Fellowship Duration:** 1 year

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**Fellow:** **Georgina Arrambide, MD**  
**Research Topic:** Contribution of 3T MRI and spinal cord MRI to the diagnosis of adult and paediatric patients with clinically isolated syndromes suggestive of Multiple Sclerosis  
**Fellowship Institution:** Multiple Sclerosis Centre of Catalonia, Hospital Vall d'Hebron, Barcelona, Spain  
**Mentor:** Dr. Alex Rovira / Prof. Xavier Montalban  
**Fellowship Duration:** 1 year

## 2011 Awardees

**Fellow:** Marco Battaglini, PhD  
**Research Topic:** Development of novel multimodal segmentation techniques to improve quantitative assessment of MR images in MS  
**Fellowship Institution:** Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford, UK  
**Mentor:** Prof. Jacqueline Palace  
**Fellowship Duration:** 1 year

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**Fellow:** Dušan Damjanović, MD  
**Research Topic:** Common Dataset project  
**Fellowship Institution:** Neuroimaging Research Unit, INSPE, Division of Neuroscience, San Raffaele Scientific Institute and Vita-Salute San Raffaele University, Milan, Italy  
**Mentor:** Prof. Massimo Filippi  
**Fellowship Duration:** 1 year

**2010 Awardees**

**Fellow:** **Benedetta Bodini**, MD, PhD  
**Research Topic:** Is grey matter damage secondary to white matter abnormalities in different MS subtypes?  
**Fellowship Institution:** Department of Medicine, Surgery and Neuroscience, University of Siena, Siena, Italy  
**Mentor:** Prof. Nicola de Stefano  
**Fellowship Duration:** 1 year

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**Fellow:** **Veronica Popescu**, MD  
**Research Topic:** Investigating the long-term clinical predictability of atrophy. Further refinement of post-processing procedures obviating the need for manual correction and application to 3D data-sets  
**Fellowship Institution:** MS Center Amsterdam, VU University Medical Center, Amsterdam, Netherlands  
**Mentor:** Prof. Frederik Barkhof  
**Fellowship Duration:** 1 year