

## Imaging Genetics of Human Brain Laterality

1-day workshop, 30 January 2018, Max Planck Institute for Psycholinguistics

### Draft Program:

**8.40 Welcome, coffee**

**9.00 Introduction** by Clyde Francks (MPI Nijmegen)

**9.10 Session1: Laterality in the organization of brain and mind**

9.10 Dorothy Bishop (Oxford) '*Individual variation in language laterality: Finding a meaningful phenotype*'

9:40 Manuel Carreiras (San Sebastian)

10:10 Nathalie Tzourio-Mazoyer (Bordeaux)

**10:40 Break**

**10:55-12:25 Session 2: Developmental and evolutionary origins of brain laterality**

10.55 Myriam Roussigne (Toulouse)

11.25 Guy Vingerhoets (Ghent) & Merel Postema (Nijmegen)

11.55 Carolien de Kovel (Nijmegen)

**12.25 Lunch**

**13:10 Session 3: Insights from atypical brain laterality**

13.10 Bernard Mazoyer (Bordeaux) & Amaia Carrion Castillo (Nijmegen)

13.40 Lise van der Haeghen (Ghent Belgium)

14.10 Marc Joliot (Bordeaux) '*Asymmetries in the resting-state intrinsic connectivity organization*'

**14.40 Break**

**14.55 Session 4: New aspects of population variation in brain laterality**

14.55 Sebastian Ocklenburg (Bochum) '*Neurogenetics of the corpus callosum: Using advanced white matter imaging techniques to understand the genetics of interhemispheric interaction*'

15.25 Fabrice Crivello (Bordeaux)

15.55 Xiangzhen Kong (Nijmegen)

**16:10 Coffee and discussion**

To what extent can the following questions already be answered by the field, and what steps will be required to make further progress:

- What are the core mechanisms that give rise to brain laterality?
- Which factors create variation in brain laterality?
- What does laterality tell us about the relationships between genes, brains, cognition and behaviour, for example with respect to language?
- To what degree are altered brain lateralities associated with cognitive performance or disorders?
- What is evolutionarily ancient and what is new about human brain laterality?

**17:10 End**

**18:00 Restaurant**