

Past M-BIC lectures

2021

Monday, 27 September

Herta Flor, Central Institute of Mental health, Department of Cognitive and Clinical Neuroscience, Medical Faculty Mannheim, Heidelberg, Germany
A mechanism-based approach to chronic pain

Monday, 14 June

Flavio Frohlich, Department of Psychiatry, Director, Carolina Center for Neurostimulation, University of North Carolina at Chapel Hill, US
Modulating brain rhythms

Monday, 7 June

Marina Pavlova, Department of Psychiatry and Psychotherapy, University of Tübingen Medical School, Tübingen, Germany
Sex, time and the social brain

Monday, 21 January

Blomert Lecture

Nadine Gaab, Laboratories of Cognitive Neuroscience, Department of Medicine/Division of Developmental Medicine, Boston Children's Hospital/Harvard Medical School, Boston, US
The Typical and Atypical Reading Brain: How a Neurobiological Framework of early Language and Reading Development Can Inform Clinical and Educational Practices

2020

Monday, 12 October

M-BIC Open-science symposium

Robert Oostenveld, Donders Institute for Brain, Cognition and Behaviour,
Radboud University, Nijmegen, the Netherlands

Using open science to advance science – advancing open data ([LINK](#))

Michael Hanke Institute of Neuroscience and Medicine, Brain and Behaviour
[INM-7], Forschungszentrum Juelich, Germany

15 years of trying open science ([LINK](#))

Monday, 16 November

Frédéric Theunissen, Department of Psychology and Helen Wills Neuroscience
Institute, University of California, Berkeley, US

*Sound to phonemes and phonemes to words: using fMRI to describe the neural
circuits and underlying computations performed by the human cortical language
network for extracting meaning from sounds*

Monday, 14 December

John Ashburner, Functional Imaging Laboratory, University College London,
United Kingdom

Generative models of brain images

2019

Monday, 21 October

Michael Garwood, Center for Magnetic Resonance Research, Department of Radiology, University of Minnesota, Minneapolis, US

Bringing compact head-only MRI scanners to life through novel methods that tolerate extreme field inhomogeneity

Monday, 7 October

Floris de Lange, Predictive Brain Lab, Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, the Netherlands

How are priors and likelihood combined in the sensory brain?

Monday, 1 July

Pieter Roelfsema, Department of Vision & Cognition, Netherlands Institute for Neuroscience, Amsterdam, The Netherlands

Feedforward and feedback interactions for visual perception and restoring a rudimentary form of vision in the blind.

Monday, 15 April

Catherine Tallon-Baudry, Laboratoire de neurosciences cognitives, département d'études cognitives, école normale supérieure, INSERM, PSL Research University, Paris, France

Brain, Viscera and First-Person Perspective

Monday, 11 March

Nitzan Censor, School of Psychological Sciences, Sagol School of Neuroscience, Tel-Aviv University, Tel-Aviv, Israel

Rapid perceptual learning and its implications across memory domains

Monday, 11 February

Blomert lecture

Jessica Dubois, CEA, Neurospin, Cognitive Neuroimaging Lab, Paris, France

Imaging Brain Development in Infants

Monday, 28 January

Hartwig Siebner, Danish Research Centre for Magnetic Resonance, Copenhagen, Denmark

The state is the art: targeting and shaping functional brain networks with transcranial non-invasive brain stimulation.

Monday, 21 January

Ingrid Johnsrude, University of Western Ontario, London, Ontario, Canada

The cognitive demands imposed by noisy, masked, and degraded speech.

2018

Monday, 22 October

Jörn Diedrichsen, Western Research Chair for Motor Control and Computational Neuroscience, Brain and Mind Institute, Department for Computer Science, University of Western Ontario, Canada

Too big to ignore: Exploring the role of the human cerebellum across functional domains.

Monday, 5 November

Martina Callaghan, Head of Physics Group, Wellcome Trust Centre for Human Neuroimaging, Faculty of Brain Sciences, University College London, UK

Computational neuroanatomy: from morphometry to in vivo histology

Monday, 25 June (this lecture was first scheduled for December 2017)

Birte Forstmann, Integrative Model-based Cognitive Neuroscience (IMCN) research unit, University of Amsterdam, Netherlands

Strategic decision-making in the human subcortex measured with UHF-MRI

Monday, 14 May

Jody Culham, Department of Psychology; Brain and Mind Institute; Western University Ontario, Canada

The treachery of images": How the realness of objects and actions affects brain activation and behavior

Monday, 16 April

Gislin Dagnelie, John Hopkins University, School of Medicine, Lions Vision Research and Rehabilitation Center, Baltimore, Maryland

Visual prosthesis studies and the foray into ultra-low vision

Monday, 23 April

Blomert lecture: **Stanislas Dehaene**, Collège de France and INSERM-CEA Cognitive Neuroimaging Unit, France

The languages of the brain: language, mathematics and human singularity

Monday, 19 March

Siegfried Trattnig, Centre of Excellence "High-Field MR" of the Medical University of Vienna, Vienna, Austria

Ultrahigh field MR (7 Tesla): Where does it make the difference?

Monday, 19 February

Thomas F. Münte, Uniklinikum Schleswig-Holstein, Lübeck, Germany

Deep Brain Stimulation – what can we learn for cognitive neuroscience?

2017

Monday, 23 October

Peter König, Institute of Cognitive Science, University of Osnabrück, Germany
Embodied Cognition

Monday, 30 October

Steven Laureys, Coma Science Group, GIGA-Consciousness and Neurology
Department, University of Liège and University Hospital of Liège, Belgium
Looking for Consciousness

Monday, 10 July

Zoe Kourtzi, Department of Psychology, University of Cambridge, UK
Adaptive Brain Computations for Flexible Cognition

Monday, 12 June

Micah Murray, University of Lausanne, Lausanne, Switzerland
The multisensory scaffolding for perception and memory

Monday, 22 May

Peter Luijten, University Medical Center Utrecht, Utrecht, The Netherlands
*Beyond structural MRI at 7T: technology, physiology, metabolism and treatment
planning*

Monday, 13 March

Blomert lecture: Peter Hagoort, Radboud University Nijmegen, Donders
Institute for Brain, Cognition and Behavior, Nijmegen, The Netherlands
Beyond Broca, Brain, and Binding

Monday, 16 January

Gaia Scerif, Department of Experimental Psychology, University of Oxford,
United Kingdom
The attentive brain: insights from developmental cognitive neuroscience

2016

Monday, 19 December

Michael Schmid, Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom

Towards delineating perceptual circuits in the primate brain: rhythmic neuronal activation & cell-specific optogenetics

Monday, 31 October

Sabine Kastner, Princeton University, Princeton, NJ, USA

Neural dynamics of the primate attention network

Monday, 12 September

Takeo Watanabe / Yuka Sasaki, Brown University, Providence, RI, USA

Roles of attention and reward in perceptual learning/ Night watch in one brain hemisphere during sleep associated with the first-night effect in humans

Monday, 29 August

Bradley Postle, University of Wisconsin, Madison, USA

Sorting through the signals: activation, oscillations, and information in visual perception and working memory

Monday, 20 June

Christoph Mulert, Department of Psychiatry and Psychotherapy, University Medical Center Hamburg, Germany

Gamma oscillations in schizophrenia: From correlation to causality and new treatment options with transcranial alternating current stimulation (tACS)

Monday, 30 May

Blomert lecture: Regine Kolinsky, Université Libre de Bruxelles

What missing literacy tells us about failed literacy

Monday, 18 April

Axel Cleermans, Center for Research in Cognition and Neurosciences, Université Libre de Bruxelles, Belgium

Consciousness: The Radical Plasticity Thesis

Monday, 21 March

Pascal Fries, Ernst Strüngmann Institute, Frankfurt, Germany

Rhythms for Cognition: Communication through Coherence

Monday, 18 January

Barbara Franke, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center, Nijmegen

Cognomics: making sense of genetic factors for psychiatric disorders by exploring their effect on brain phenotypes

2015

Monday, 7 December

Denis Schluppeck, University of Nottingham, Nottingham, UK
Measuring visual field distortions and cortical changes in amblyopia

Monday, 9 November

David Poeppel, New York University Psychology, New York, USA and Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany
Cortical tracking of hierarchical linguistic structures in connected speech

Monday, 21 September

Frederic Dick, Birkbeck College, University of London, London, UK
Functional and structural changes underlying language and auditory expertise

Monday, 6 July

James Haxby, Dartmouth College, Hanover, USA
A common high-dimensional model of representational spaces in human cortex

Monday, 18 May

Andreas Engel, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
Intrinsic coupling modes and cognition

Monday, 2 March

Karla Miller, FMRIB Centre, Oxford University, Oxford, UK
Adventures in post-mortem imaging: sea mammals, polarized light and the 2-week scan marathon

Monday, 9 February

Andrea Kübler, University of Würzburg, Würzburg, Germany
EEG-based Brain-Computer Interfaces: comparison of different sensory modalities and experiences from locked-in end-users

Tuesday, 27 January

Gustavo Deco, Universitat Pompeu Fabra, Barcelona, Spain
Temporal aspects of whole-brain activity: An experimental/ theoretical Perspective

2014

Monday, 8 December

Blomert lecture: **Daniel Ansari**, The University of Western Ontario, Ontario, Canada

Symbols in the brain: evidence from the development of numeracy and literacy

Monday, 13 October

Wim Vanduffel, Harvard Medical School, Massachusetts General Hospital, USA and University of Leuven, Belgium

Rewards, midbrain and visual cortex: what do they have in common?

Monday, 19 May

Scientific opening symposium of the MBIC

See program

Monday, 7 April

Karl Friston, Wellcome Trust Centre for Neuroimaging, University College London, UK

Dynamic causal modelling of electromagnetic responses

Monday, 10 March

Heidi Johansen-Berg, FMRIB Centre, John Radcliffe Hospital, Oxford, UK

Imaging and stimulating adaptive brain plasticity

Monday, 10 February

Katrin Amunts, Forschungszentrum Jülich, Jülich, Germany

The human brain atlas - challenges and perspectives

Monday, 20 January

Josef Rauschecker, Georgetown University, Washington, USA

Auditory cortex of primates: What can we learn from studies of visual cortex?

2013

Monday, 9 December

Robert Turner, Max Planck Institute for Human Cognitive and Brain Sciences,
Leipzig, Germany

Where Matters: The importance of neuroanatomy

Monday, 25 November

Ole Jensen, Donders Institute, Radboud University, Nijmegen, The Netherlands

*On the functional role of human alpha oscillations: routing and prioritizing
information processing*

Monday, 21 October

Oliver Speck, Otto-von-Guericke-University, Magdeburg, Germany

High Resolution Neuroimaging at 7T