Primate Neurobiology Meeting 2026
PNM2026

May 6-8, 2026

Tübingen

Location:
Max-Plank-Haus
Max-Planck-Ring 6, 72076 Tübingen

Wednesday, May 6th, 2026

13:30 - 13:45 Opening remarks

Chair: Ziad Hafed

13:45 - 14:45 Keynote: Christopher Pack (McGill University, Montréal)
Principles of cortical plasticity supporting visual learning

14:45 - 15:15 Patrick Jendritza (German Primate Center, Göttingen)
Synaptic gain control by ~10 Hz cortical oscillations

15:15 - 15:45 Coffee Break

Chair: Andreas Nieder

15:45 - 16:15 Jake Westerberg (Netherlands Institute for Neuroscience, Amsterdam)
Attentional selection without recurrent attentional modulation in visual cortex

16:15 - 16:45 Masih Shafiei (Hertie Institute for Clinical Brain Research, Tübingen)
Ocular morphology does not account for the quantitative gaze-following differences between humans and rhesus monkeys

16:45 - 17:15 Stefan Treue (German Primate Center, Göttingen)
Recent developments affecting NHP-research in the EU and beyond

17:15 - 18:45 Poster Session 1

Thursday, May 7th, 2026

Chair: Steffen Hage

09:00 – 10:00 Keynote: Xiaoqin Wang (Johns Hopkins University, Baltimore)
Marmoset as a model system for studying the neural basis of cognition

10:00 – 10:30 Jean Laurens (Ernst Strüngmann Institute of the Max Planck Sociery, Frankfurt)
Parietal cortex activity during naturalistic behavior in freely moving marmosets

10:30 - 11:00 Elena Cavani (Centre for Integrative Neuroscience, Tübingen)
Food-associated calls hold food identity information in marmoset monkeys

11:00 – 11:30 Coffee Break

Chair: Pascal Fries

11:30 – 12:00 Qinglin Li (Centre for Integrative Neuroscience, Tübingen)
Neural oscillations optimize information processing through coordinated signal amplification and noise control

12:00 – 12:30 Eric Drebitz (Brain Research Institute, Bremen)
Gamma-phase relations between neurons in the visual cortex determine the effectiveness of routing, processing, and behavior

12:30 – 13:00 Aditya Chowdhury (Ludwig-Maximilians-Universität München, Munich)
Alpha oscillations and the receptive field properties of local field potentials in primate visuomotor areas

13:00 - 14:30 Lunch

Chair: Peter Thier

14:30 – 15:00 Florian Sandhaeger (University of Tübingen)
Quantifying external influences on neural signals underlying behaviour

15:00 – 15:30 Laura E. Seidler (University of Tübingen)
Numerical sensorimotor transformation in the parietal cortex of rhesus macaques

15:30 – 16:00 Coffee break

16:00 – 18:00 Poster Session 2

19:00 Dinner at Ratskeller (Haaggasse 4, Tübingen)

Friday, May 8th, 2026

Chair: Markus Siegel

09:00 - 10:00 Keynote: Tim Buschman (Princeton University)
The geometry of flexible multi-tasking

10:00 – 10:30 Hao Guo (German Primate Center, Göttingen)
Delay of neural motor-goal selection by pathway-specific optogenetic inhibition of frontal-to-parietal projections in rhesus monkeys

10:30 - 11:00 Wenbin Wu (University of Tübingen)
Differential contributions of the primary visual cortex and superior colliculus to saccadic suppression

11:00 – 11:30 Coffee Break

11:30 – 12:00 Xinyu Liu (Netherlands Institute for Neuroscience, Amsterdam)
Dynamics of figure-ground segregation and selective attention in early visual cortex

12:30 – 13:00 Yue Yu (University of Tübingen)
Temporal filtering characteristics of primary visual cortex and superior colliculus neurons

13:00 Closing remarks: Peter Thier

Posters

1. Antonino Greco, Zenas C. Chao, Markus Siegel (Tübingen)
   High-order neural interactions support predictive learning in human and non-human primate brains

2. Jungmin Lee, Ema Zezelic, Markus Siegel (Tübingen)
   Neural and Computational Correlates of Value-Based Decision-Making Across Species

3. Ruben Tammaro, Constantin von Nicolai, Markus Siegel (Tübingen)
   Can Granger causality uncover laminar microcircuits of primate PFC?

4. Joachim Bellet, Markus Siegel, Stanislas Dehaene, Bechir Jarraya, Theofanis Panagiotaropoulos, Timo van Kerkoerle (Tübingen)
   From Coarse to Rich: Successive Waves of Visual Perception in Prefrontal Cortex

5. Carlotta Trottenberg, Matthias P. Baumann, Yue Yu, Tatiana Malevich, Ziad M. Hafed (Tübingen)
   Non-saturating contrast sensitivity curves in primary visual cortex but not superior colliculus neurons

6. Ekaterina Sapozhnikova, Tatiana Malevich, Ziad M. Hafed (Tübingen)
   Primary visual cortex integrity is needed for normal auditory and visually-driven pupil dynamics

7. Shweta Prasad, Tatiana Malevich, Yue Yu, Matthias P. Baumann, Tong Zhang, Ziad M. Hafed (Tübingen)
   Classifying extracellular action potential waveform shapes in the rhesus macaque superior colliculus and primary visual cortex

8. Maria Ermolova, Antimo Buonocore, Ziad M. Hafed (Tübingen)
   Electrophysiological correlates of differential anatomical inputs to brainstem omnipause neurons during saccadic eye movements

9. Tatiana Malevich, Ziad M. Hafed (Tübingen)
   Countermanding model of microsaccadic inhibition suggests a preserved role for latent visual signals when primary visual cortex is impaired

10. Julia Löschner, Steffen R. Hage (Tübingen)
    A Modular Building-Block Model of Marmoset Vocalizations

11. Julia Grüb, Andreas Nieder (Tübingen)
    The role of attention in subitizing and large number representations in primate prefrontal cortex

12. Weronika Sójka, Tobias Machts, Andreas Nieder (Tübingen)
    Neuronal coding of task-relevant numerosity during rule-guided decisions in the macaque prefrontal cortex

13. Saskia Erdle, Laura E. Seidler and Andreas Nieder (Tübingen)
    The role of dopamine receptors in processing numerical values in primate prefrontal neurons

14. Piotr Majka, Emmanuel K L Cho, Karolina Łabuszewska, Thuy Vy Nguyen, Marcin Syc, Tomasz Walkiewicz, Katrina H Worthy, Li Zhaoping, Marcello Rosa (Tübingen)
    Ventral-stream feedback to the primary visual cortex (V1) in primates is focused to the central visual field: theoretical prediction confirmed

15. Mark J. Buckley, Juan M Galeazzi, Matthew Ainsworth (Oxford)
    Abstract rule guided decision-making - concomitant prefrontal neuronal activities and dynamic inter-area interactions across trial epochs

16. Liza Kumari, Marta Falkowska-Kisiel, Jaime Cadena-Valencia, Jennifer Greilsamer, Samy Rima, Diego Ghezzi, Michael Schmid (Fribourg)
    Comparing Optogenetic and Electrical Stimulation of Macaque Primary Visual Cortex for Visual Prosthesis Development

17. Niloufar Chamani, Marta Falkowska, Kumari Liza, Jaime Cadena Valencia, Michael C. Schmid (Fribourg)
    Alpha tACS Modulates V1 Laminar Gain

18. Dan Qi Priscilla Oh, Detlef Wegener (Bremen)
    The macaque V1 Attention Field in the Distributed and Selective attention regimes

19. Jannik Wette, Jasmin Masannek, Dan Qi Priscilla Oh, Detlef Wegener (Bremen)
    An investigation of choice-related activity patterns in the macaque primary visual cortex.

20. Jasmin Masannek, Esperanza Domingo Gil, Dan Qi Priscilla Oh, Detlef Wegener (Bremen)
    Characterizing mesoscale activity patterns from monkey V1 high-resolution epidural arrays using Voronoi tessellation

21. Marit Klebb, Dan Qi Priscilla Oh, Detlef Wegener (Bremen)
    A velocity-based saccade onset detector for pre-saccadic local field potential analysis in primary visual cortex

22. Tim E. Thörner, Eric Drebitz, Andreas K. Kreiter (Bremen)
    Competition and cooperation: A paradigm to study flexible reconfiguration of neuronal populations during object-based attention

23. Renate Krause, Andrea Campa, Petra Tornmaln, Alexey Illarionov, and Valerio Mante (Zurich)
    Social context modulates reward sensitivity in group-trained rhesus macaques

24. Abdolvahed Narmashiri, Jackson E. T. Smith, Kristine Krug, Andrew Parker (Magdeburg)
Distinct contributions of mid-level ventral areas V4 and TEO to correlated binocular disparity processing

25. Pasuparthi Gouri Pravalitha, Kristine Krug, Andrew Parker (Magdeburg)
Detecting binocular disparity in photorealistic objects

26. Michael Ortiz-Rios, Tung Yi-Hang, Friederike Busch, Kristine Krug (Magdeburg)
High-resolution mapping of the macaque pulvinar nuclei using quantitative susceptibility mapping at 7T

27. Amy Addlesee, Hajime Suyama, Kai-Lun Teh, Andrew Parker, Jens Kremkow, Kristine Krug (Magdeburg)
Organisation of direction- and disparity-tuned neurons in monkey V5/MT revealed by recordings with high-density Neuropixel probes

28. Sascha Ziegler, Bashir Ahmed, Ye Tion, Zhiming Shen, Andrew Parker, Kristine Krug (Magdeburg)
Overlapping anatomical projections from the pulvinar nuclei to area V5/MT and LIP in the macaque

29. Jisk J. Groot, Jacob A. Westerberg (Amsterdam)
Visual cortical dynamics supporting predictable attentional capture

30. Maureen van der Grinten, Paolo Papale & Pieter Roelfsema (Amsterdam)
Structured noise: the principal axis of noise correlations spares ventral stream stimulus representations in deep neural networks

31. Sjoerd R Murris, Kanishk Waghmare, Jonathan Williford, Pieter Klink & Pieter Roelfsema (Amsterdam)
A distributed network for object-based attention in the monkey brain

32. Baptiste Caziot, Martin Szinte, Guillaume Masson, Frank Bremmer (Marburg)
Disparity- and vergence-related activity in area LIP

33. Mathilda Froesel, Nora E. Fitzgerald, Changshuo Wang, Gabriel Montaldo, Alan Urban*, Wim Vanduffel* (Leuven)
Volumetric functional ultrasound imaging reveals auditory response in macaque occipito-parietal cortex

34. Matthias P. Baumann, Anne van Ham, Matthew Self, Pieter Roelfsema (Paris)
Figuring out more about figure-ground segregation: the contribution of the superior colliculus

35. Prithu Purkait, Florian Fallegger, Fabrice Arcizet, Chris Klink, Emilia Araujo Zin, Maya Anquetil, Rim Sadry, Rafik Arab, Valérie Fradot, Clémence Bradic, Guillaume Labernede, Audrey Fayard, Sophie Lecourtois, Julien Flament, Romina Aron Badin, Deniz Dalkara, Serge Picaud, Pieter Roelfsema (Paris)
    Optogenetic stimulation of the macaque lateral geniculate nucleus for vision restoration

36. Abhilash Dwarakanath, Tarana Nigam, Caspar M. Schwiedrzik (Göttingen)
    Emerging dynamics of associative plasticity in the medial-lateral face patch

37. Alireza Fathian, Sebastian J. Lehmann, Jonathan A. Michaels, Hansjörg Scherberger (Göttingen)
    Mixed-selective representation of reach and grasp in the primate fronto-parietal network

38. Jan Churan, Tianwei Wang, Roberta Nocerino, Hansjörg Scherberger (Göttingen)
    Grasp-related neural responses in the pulvinar and the cortical grasping network

39. Jannik Luff, Stefan Schaffelhofer, Hans Scherberger, Benjamin Dann (Göttingen)
    Neural activity during action observation occupies an independent but movement encoding subspace

40. Nicolas Zdun, Hansjörg Scherberger, Benjamin Dann (Göttingen)
    A markerless tracking setup for examining a large variety of grasping movements in macaque monkeys and humans

41. Akshay Edathodathil, Vladyslav Ivanov, Fabian Sinz , Stefan Treue (Göttingen)
    Characterization of motion preferences of macaque MSTd neurons using transformer models and closed-loop electrophysiology

42. Anahita Nazari, Felix Schneider, Stefan Treue (Göttingen)
    Continuous perceptual decisions in rhesus macaques in solo and social contex

43. Efsun Kavaklioglu, Moein Esghaei, Stefan Treue (Göttingen)
    Investigating feature binding of color and motion: Toward comparative studies in humans and non-human primates

44. Pinar Yurt, Antonino Calapai, Stefan Treue (Göttingen)
    Assessing cognitive flexibility in ADHD with a novel multidimensional set-shifting task

45. Moein Esghaei, Mohammad Bagher Khamechian, Supratim Ray, Daniel Kaping, Douglass A. Ruff, Marlene Cohen, Stefan Treue
    Modulation of action potential waveform duration in feature-based and spatial attention

46. Felix Schneider, Anahita Nazari, Antonino Calapai, Stefan Treue (Göttingen)
    Neural correlates of continuous perceptual decision making in area MT of rhesus monkeys in solo and social context

47. Jannis Hainke, Zurna Ahmed, Irene Lacal, Jessica Grunwald, Alexander Gail (Göttingen)
Estimation of head gazes in freely moving rhesus macaques

48. Jessica Grunwald, Zurna Ahmed, Irene Lacal, Jannis Hainke, Ayuno Nakahashi, Alexander Gail (Göttingen)
Freely moving rhesus macaques coordinate dynamically during social foraging

49. Vladyslav Ivanov, Cia da Silva, Fabian Sinz, Alexander Gail (Göttingen)
Spatial reference frames of goal-directed action planning in freely

50. Sebastian Moeller, Benjamin Dann, Hansjoerg Scherberger, Stefan Treue, Alexander Gail, Igor Kagan (Göttingen)
Neural correlates of dynamic strategic coordination in macaque premotor cortex

51. Zahra Yousefi Darani, Sara Ahmadi Majd, Neda Shahidi (Göttingen)
Freely behaving is not randomly behaving: Hidden vigilance states in naturalistic foraging

52. Jorge Cabrera-Moreno, Judith Burkart, Rahel Brügger (Göttingen)
A seesaw system for studying action-dependent reward access in socially housed marmosets

53. Andrea Fernanda Campos-Pérez*, Tarana Nigam*, Wilbert Zarco, Tomoki W. Suzuki, Winrich A. Freiwald, Caspar M. Schwiedrzik (Bochum)
Natural facial motion unlocks predictive computations in macaque face patch ML

Max-Planck-Haus