



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



HARVARD UNIVERSITY

LMU-Harvard Young Scientists' Forum

15th Harvard-LMU Young Scientists' Forum
July 19 – 21, 2023

The LMU-Harvard Young Scientists' Forum (YSF) seeks to unite Ph.D. students and Postdoctoral fellows from the Harvard University and the Ludwig-Maximilians-Universität (LMU Munich) with core faculty from the two universities to create a framework for an interdisciplinary exchange of ideas. The YSF was initiated as a yearly event in 2009 and is held alternately in Munich and Cambridge.

Tuesday, July 18

■ **Arrival** (LMU International Office, or individually arranged)
IZB Residence CAMPUS@HOME (address below)

Wednesday, July 19

LMU Biocenter, Grosshadernerstr. 2, 82152 Martinsried, D00.003

09:00 – 09:15 *Walk from IZB Residence to Biocenter*

09:15 – 09:30 **Welcome address** (B.Grothe, Munich Center for Neurosciences and S.Lauterbach, LMU International Office)

09:30 – 10:30 **Lecture 1** – M.Andermann: **“Cortical reactivations predict future sensory responses”** (Intro: B.Grothe)
Coffee break (catered; foyer D00.003)

11:00 – 13:00 **Session 1 – “Sensory circuit processing”**
Schuhknecht/Sobolev/Ribero/Alcami (Chair: B.Grothe)
Lunch break (catered; foyer)

14:30 – 16:30 **Session 2 – “Systems Neurology”**
Feiten/Blaskovic/Hahn/Douglass (Chair: M.Pecka)
Coffee break (catered; foyer)

17:00 – 18:00 **Lecture 2** – C.Haass: **“Is the Amyloid cascade still valid to explain Alzheimer’s disease?”** (Intro: M.Pecka)

18:45 – open Bavarian Conference Evening (**Fürstenrieder Schwaige, Forst-Kasten-Allee 114, 81475 München**; transfer pre-arranged at IZB Residence)



Thursday, July 20	LMU Biocenter Martinsried, D00.003
08:45 – 09:00	Walk from IZB Residence to Biocenter
09:00 – 10:00	Lecture 3 – S.Koch: “Limited Limitations: Restoring Vision in Retinal Degeneration” (Intro: M.Myoga) <i>Coffee break</i> (catered; foyer)
10:30 – 12:30	Session 3 – “Biomedical Neurosciences and Clinical Perspectives” Besedovsky/Kenet/Lagomarsino/Martinez R./Nagappan C. (Chair: M.Myoga) <i>Lunch break</i> (catered; foyer)
14:30 – 16:30	Session 4 – “Neurodevelopment” Ries/Pravata/Faravelli/Terauchi/Marahori (Chair: L.Busse) <i>Coffee break</i> (catered; foyer)
17:00 – 18:00	Lecture 4 – H.Umemori: “Molecular logic in synaptic circuit development and disease” (Intro: L.Busse)
18:00 – open	<i>At free disposal (student representative activities)</i>
Friday, July 21	LMU Biocenter Martinsried, D00.003
08:45 – 09:00	Walk from IZB Residence to Biocenter
09:00 – 10:00	Lecture 5 – S.Jacob: “A brain-computer-interface with cellular resolution for the investigation of language” (Intro: P.Alcami) <i>Coffee break</i> (catered; foyer)
10:30 – 12:30	Session 5 – “Molecular and Cellular Components of Neuronal Circuit Function” Chen/Russell/Bludau/Campell/Bernklau (Chair: P.Alcami) <i>Lunch break</i> (catered) & YSF poster session (foyer) & YSF faculty meeting (B00.051)
	Poster – De Weerd/Essner/Evans/Heisterkamp/Held/Hohendorf/Hoermannic/Khuntia/Lin/Lutz/Meyerolbersleben/Muppirala/Popovic/Righetti/Totiger/Vilceanu/Wang/Winhart
14:30 – 15:30	Lecture 6 – M.Rao: “The brain in the gut: a central regulator of digestive health and disease” (Intro: O.Behrend)
15:30	Closing remarks (O.Behrend MCN-LMU; K.Blum CBS)
15:45	Walk from Biocenter to IZB Residence / <i>individually: beergarden</i>
Saturday, July 22	IZB Residence CAMPUS@HOME, Am Klopferspitz 21, 82152 Martinsried ■ Departure (LMU International Office, or individually arranged)





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Participants

Harvard University Delegation

- **Mark L. Andermann**, Professor, Harvard Medical School, Department of Medicine & Beth Israel Deaconess Medical Center
- **Kenneth Blum**, Executive Director, Harvard Center for Brain Science
- **Malcolm Campbell**, Postdoctoral Fellow, Department of Molecular and Cellular Biology, Laboratory of Naoshige Uchida
- **Alex Chen**, PhD student, Department of Molecular and Cellular Biology, Laboratory of Florian Engert
- **Amelia Douglass**, Postdoctoral Fellow, Beth Israel Deaconess Medical Center, Laboratory of Bradford Lowell
- **Rachel Essner**, PhD student, Harvard Medical School, Department of Medicine & Beth Israel Deaconess Medical Center, Laboratory of Mark Andermann
- **Kathryn Evans**, MD/PhD student, Harvard Medical School, Department of Medicine & Beth Israel Deaconess Medical Center, Laboratory of Mark Andermann
- **Irene Faravelli**, Postdoctoral Fellow, Harvard Stem Cell Institute, Laboratory of Paola Arlotta
- **Niko Hörmann**, Postdoctoral Fellow, Department of Molecular and Cellular Biology, Laboratory of Florian Engert
- **Hakan Kucukdereli**, Postdoctoral Fellow, Beth Israel Deaconess Medical Center, Laboratory of Mark Andermann
- **Valentina Lagomarsino**, PhD student, Harvard Medical School, Laboratory of Meenakshi Rao

- **Anoohya Muppirala**, PhD student, Harvard Medical School, Laboratory of Meenakshi Rao
- **Sivapratha Nagappan-Chettiar**, Postdoctoral Fellow, Harvard Medical School, Laboratory of Hisashi Umemori
- **Meenakshi Rao**, Professor, Harvard Medical School
- **Andy Russell**, Postdoctoral Fellow, Harvard Medical School, Laboratory of Chinfei Chen
- **Gregor Schuhknecht**, Postdoctoral Fellow, Harvard Department of Molecular and Cellular Biology, Laboratory of Florian Engert
- **Akiko Terauchi**, Postdoctoral Fellow, Harvard Medical School, Laboratory of Hisashi Umemori
- **Hisashi Umemori**, Professor, Boston Children's Hospital, Harvard Medical School

Harvard University Nominating Faculty

- **Mark L. Andermann**, Professor, Harvard Medical School, Department of Medicine & Beth Israel Deaconess Medical Center
- **Paola Arlotta**, Professor, Harvard Center for Brain Science, Stem Cell Institute
- **Chinfei Chen**, Professor, Harvard Medical School, Division of Medical Sciences
- **Florian Engert**, Professor, Harvard Center for Brain Science, Department of Molecular and Cellular Biology
- **Brad Lowell**, Professor, Beth Israel Deaconess Medical Center & Harvard Medical School
- **Venkatesh Murthy**, Professor, Harvard Center for Brain Science, Department of Molecular and Cellular Biology



Participants

- **Meenakshi Rao**, Professor, Harvard Medical School
- **Naoshige Uchida**, Professor, Harvard Center for Brain Science, Department of Molecular and Cellular Biology
- **Hisashi Umemori**, Professor, Boston Children's Hospital, Harvard Medical School

Ludwig-Maximilians-Universität München (LMU)
Helmholtz Zentrum München – German Research Center for Environmental Health (HMGU)
Max Planck Institute of Biological Intelligence (MPI-BI)
Max Planck Institute of Psychiatry (MPI Psych)
Technische Universität München (TUM)
Delegation

- **Pepe Alcamí**, Principal Investigator, LMU, Department of Biology, Division of Neurobiology, Laboratory of Benedikt Grothe
- **Oliver Behrend**, Managing Director, LMU, Munich Center for Neurosciences (MCN), Graduate School of Systemic Neurosciences (GSN)
- **Tobias Bernklau**, Postdoctoral Fellow, TUM, Department of Neurosurgery, Laboratory of Simon Jacob
- **Luciana Besedovsky**, Professor, LMU, Institute of Medical Psychology
- **Martin Biel**, Professor, LMU, Department of Pharmacy
- **Borbola Blaskovic**, Postdoctoral Fellow, LMU, Medical Psychology, MPI of Psychiatry, Laboratory of Martha Merrow
- **Oliver Bludau**, Postdoctoral Fellow, LMU, Department of Physiological Genomics, BioMedical Center (BMC), Laboratory of Antje Grosche
- **Laura Busse**, Professor, LMU, Department Biology, Division of Neurobiology
- **Jan Deussing**, Principal Investigator, MPI of Psychiatry
- **Lis De Weerd**, PhD student, German Center for Neurodegenerative Diseases (DZNE), Laboratory of Christian Haass

- **Astrid Feiten**, Postdoctoral Fellow, LMU BioMedical Center, Metabolic Biochemistry, Laboratory of Christian Haass
- **Thomas Geyer**, Professor, LMU Department of Psychology
- **Magdalena Götz**, Professor, LMU, Department of Physiological Genomics, HMGU
- **Antje Grosche**, LMU, Department of Physiological Genomics, BioMedical Center (BMC)
- **Benedikt Grothe**, Professor, LMU, Department Biology, Division of Neurobiology, Munich Center for Neurosciences (MCN), Graduate School of Systemic Neurosciences (GSN)
- **Christian Haass**, Professor, LMU, Biomedical Center, Metabolic Biochemistry, German Center for Neurodegenerative Diseases (DZNE), SyNergy Excellence Cluster of Systems Neurology
- **Lisa Hahn**, Postdoctoral Fellow, LMU, Department of Psychiatry and Psychotherapy, MPI of Psychiatry, Laboratory of Nikolaos Koutsouleris
- **Patrick Heisterkamp**, Postdoctoral Fellow, LMU, Department Biology, Laboratory of David Keays
- **Lisa Held**, PhD student, TUM, Translational Neurotechnology, Laboratory of Simon Jacob
- **Victoria Hohendorf**, PhD student, TUM, Translational Neurotechnology, Laboratory of Simon Jacob
- **Simon Jacob**, Professor, TUM, Translational Neurotechnology
- **Selin Kenet**, Postdoctoral Fellow, TUM, Institute of Neuronal Cell Biology, Laboratory of Thomas Misgeld
- **Adyasha Khuntia**, PhD student, LMU, Department of Psychiatry and Psychotherapy, MPI of Psychiatry, Laboratory of Nikolaos Koutsouleris
- **Susanne Koch**, Professor, LMU, Department of Pharmacy, Center for Drug Research
- **Stefan Lauterbach**, Head, LMU, International Office
- **Xiaixiong Lin**, PhD student, TUM, Translational Neurotechnology, Laboratory of Simon Jacob
- **Nicolas Lutz**, Postdoctoral Fellow, LMU, Medical Psychology, Laboratory of Martha Merrow
- **Natalia Marahori**, Postdoctoral Fellow, TUM, Institute of Neuronal Cell Biology, Laboratory of Thomas Misgeld
- **Fernanda Martinez Reza**, PhD student, HMGU, Institute for Stem Cell Research, Laboratory of Magdalena Götz



Participants

- **Lucas Meyerolbersleben**, PhD student, LMU, Department Biology, Division of Neurobiology, Laboratory of Laura Busse
- **Stylios Michalakis**, Professor, LMU, Department of Pharmacy
- **Thomas Misgeld**, Professor, TUM, Institute of Neuronal Cell Biology, German Center for Neurodegenerative Diseases (DZNE)
- **Michael Myoga**, Professor, LMU, BioMedical Center
- **Michael Pecka**, Professor, LMU, Department Biology, Division of Neurobiology
- **Lukša Popovic**, PhD student, LMU, Clinic of Psychiatry and Psychotherapy, Laboratory of Michael Wehr
- **Veronica Pravata**, Postdoctoral Fellow, LMU, BioMedical Center, MPI of Psychiatry, Laboratory of Silvia Capello
- **Ines Ribeiro**, Principal Investigator, LMU, Medical Psychology, Laboratory of Martha Mellow
- **Clemens Ries**, PhD student, MPI of Psychiatry, Graduate School of Systemic Neurosciences (GSN), Laboratory of Jan Deussing
- **Beatrice Righetti**, PhD student, TUM, Translational Neurotechnology, Laboratory of Simon Jacob
- **Andrey Sobolev**, Postdoctoral Fellow, LMU, Department Biology, Division of Neurobiology, Laboratory of Michael Pecka
- **Santosh Totiger**, PhD student, LMU, Department Biology, Division of Neurobiology, Laboratory of Pepe Alcamí
- **Alexandra Vilceanu**, Postdoctoral Fellow, LMU, Department Biology, Laboratory of David Keays
- **Xuanyu Wang**, PhD student, TUM, Translational Neurotechnology, Laboratory of Simon Jacob
- **Valentin Winhart**, PhD student, LMU, Department Biology, Division of Neurobiology, Laboratory of Michael Pecka

Munich Nominating Faculty

- **Laura Busse**, Professor, LMU, Department Biology II, Division of Neurobiology
- **Silvia Capello**, LMU, Department of Physiological Genomics, BioMedical Center (BMC)
- **Jan Deussing**, Principal Investigator, MPI of Psychiatry
- **Peter Falkai**, Professor, Director, LMU, Clinic of Psychiatry and Psychotherapy
- **Magdalena Götz**, Professor, LMU, Department of Physiological Genomics, HMGU
- **Antje Grosche**, LMU, Department of Physiological Genomics, BioMedical Center (BMC)
- **Benedikt Grothe**, Professor, LMU, Department Biology, Division of Neurobiology, Munich Center for Neurosciences (MCN), Graduate School of Systemic Neurosciences (GSN)
- **Christian Haass**, Professor, LMU, Biomedical Center, Metabolic Biochemistry, German Center for Neurodegenerative Diseases (DZNE), SyNergy Excellence Cluster of Systems Neurology
- **Simon Jacob**, Professor, TUM, Translational Neurotechnology
- **David Keays**, Professor, LMU, Department Biology
- **Nikolaos Koutsouleris**, Professor, LMU Department of Psychiatry and Psychotherapy, King's College London Institute of Psychiatry, Psychology and Neuroscience, MPI of Psychiatry
- **Martha Mellow**, Professor, LMU, Medical Psychology
- **Thomas Misgeld**, Professor, TUM, Institute of Neuronal Cell Biology, German Center for Neurodegenerative Diseases (DZNE)
- **Michael Pecka**, Professor, LMU, Department Biology, Division of Neurobiology

- **LMU-Harvard Young Scientists' Forum at the LMU Biocenter**: From Molecules to Organisms, July 19 – July 21, 2023
- **Under the auspices of** Prof. Dr. Francesca Biagini, Vice President for International Affairs and Diversity, LMU
- **Program Management**: Dr. Susanne Döring-Buchmann (LMU International Office), Sylvia Zehner (LMU Munich Center for Neurosciences)
- **Participating academic units**: Munich Center for Neurosciences (MCN), Graduate School for Systemic Neurosciences (GSN)
- **Academic Management**: Prof. Dr. Oliver Behrend, Prof. Dr. Benedikt Grothe (MCN/GSN)
- **Institutional Responsibility**: LMU International Office, LMU Biocenter

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