

Preisträger / Awardees 2023/2024

Matthias M. Baumann

Hertie Institute for Clinical Brain Research

Sensory tuning in neuronal movement commands

PNAS, 2023, 120(38); e2305759120

Roxana Zerati

International Max Planck Research School for the Mechanisms of Mental Function & Dysfunction, Tübingen

Intrinsic timescales in the visual cortex change with selective attention and reflect spatial connectivity

Nature Communications, 2023, 14:1858

Preisträgerin / Awardee 2021/22

Aleksandra Arsic

Werner Reichardt Centre for Integrative Neuroscience, AG I. Nikic-Spiegel

Minimal genetically encoded tags for fluorescent protein labeling in living neurons

Nature Communications, 2022, 13(1):1-18

Preisträger / Awardees 2019

Svenja Bodt

Medical Psychology and Behavioural Neurobiology

Fast track to the neocortex: A memory engram in the posterior parietal cortex

Science, 2018, 362(6418):1045-1048

Anuck Sawangjit

Medical Psychology and Behavioural Neurobiology

The hippocampus is crucial for forming non-hippocampal long-term memory during sleep

Nature, 2018, 564:109-113

Preisträger / Awardees 2018

Leonid Fedorov

CIN & IMPRS for Cognitive and Systems Neuroscience, Tübingen

Adaptation aftereffects reveal representations for contingent social actions

Proceedings of the National Academy of Sciences of the USA, 115(29):7515-7520

Ann-Christin Wendeln

Hertie-Institut für klinische Hirnforschung, Tübingen

Innate immune memory in the brain shapes neurological disease hallmarks

Nature, 556:332-338

Preisträger / Awardees 2017

Patricia Preston-Ferrer

Werner Reichardt Centre for Integrative Neuroscience, JRG Cellular and Synaptic Basis of Behaviour, Tübingen

Anatomical organization of presubicular head-direction circuits

eLife, pii:e14592

Sarah Wiethoff

Hertie-Institut für klinische Hirnforschung, Sektion Klinische Neurogenetik, Tübingen

Hereditary spastic paraplegia — clinicogenetic lessons from 608 patients

Annals of Neurology, 79(4):646-658

Preisträger / Awardees 2016

Lena Veit

Tierphysiologie, Institut für Neurobiologie, Tübingen

Associative learning rapidly establishes neuronal representations of upcoming behavioral choices in crows

Proceedings of the National Academy of Sciences of the USA 112:15208-15213

Tim Rohe

Universitätsklinik für Psychiatrie und Psychotherapie, Tübingen

Distinct computational principles govern multisensory integration in primary sensory and association cortices

Current Biology 26:509-514

Preisträger / Awardees 2015

Amalia Papanikolaou

Max-Planck-Institut für Biologische Kybernetik

Population receptive field analysis of the primary visual cortex complements perimetry in patients with homonymous visual field defects

Proc. Natl. Acad. Sci. USA 2014;111(16):E1656-65. doi: 10.1073/pnas.1317074111

Chih-Yang Chen

Centrum für Integrative Neurowissenschaften, Universität Tübingen

Neuronal response gain enhancement prior to microsaccades

Current Biology 2015;25(16):2065-2074

Preisträger / Awardees 2014

Cesare V. Parise

Max-Planck-Institut für Biologische Kybernetik

Natural auditory scene statistics shapes human spatial hearing

PNAS 2014;111(16):6104-8. doi: 10.1073/pnas.1322705111

Hong-Viet V. Ngo

Institut für Medizinische Psychologie, Universität Tübingen

Auditory closed-loop stimulation of the sleep slow oscillation enhances memory

Neuron 2013;78:545-553

Preisträger / Awardees 2013

Larissa Wolkenstein

Fachbereich Psychologie, AE Klinische Psychologie und Psychotherapie

Amelioration of cognitive control in depression by transcranial direct current stimulation

Biological Psychiatry 2013;73:646-651

Thomas Baden

CIN/BCCN, Inst. Ophthalmic Research

Spikes in mammalian bipolar cells support temporal layering of the inner retina

Current Biology 2013;23:48-52

Preisträger / Awardees 2012

Daniela Balslev

Hertie Institut für Klinische Hirnforschung, Abt. Kognitive Neurologie, Sektion Neuropsychologie

Eye proprioception used for visual localization only in conflict with the oculomotor plan

Journal of Neuroscience 2012;32(25):8569-8573

Henry Evrard

Max-Planck-Institut für Biologische Kybernetik, Abt. Physiologie Kognitiver Prozesse

Von economo neurons in the anterior insula of the macaque monkey

Neuron 2012;74(3):482-489

Preisträger / Awardees 2011

Thomas Ethofer

Universitätsklinik für Psychiatrie und Psychotherapie, Tübingen

Emotional voice areas: Anatomical location, functional properties, and structural connections revealed by combined fMRI/DTI

Cerebral Cortex 2012;22(1):191-200. doi: 10.1093/cercor/bhr113

Maik Stüttgen

Hertie Institut für Klinische Hirnforschung, Abt. Kognitive Neurologie

Integration of vibrotactile signals for whisker-related perception in rats is governed by short-time constants: comparison of neurometric and psychometric performance

Journal of Neuroscience 2010;30(6):2060-9. doi: 10.1523/JNEUROSCI.3943-09.2010

Preisträger / Awardees 2010

Regan Ashby

Institut für Ophthalmologie, Sektion Neurobiologie des Auges

The effect of bright light on lens-compensation in chicks

Investigative Ophthalmology and Visual Science 2010;51(10):5247-53. doi: 10.1167/iovs.09-4689

Vittorio Caggiano

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

Mirror neurons differentially encode the peripersonal and extrapersonal space of monkeys

Science 2009;324(5925):403-406

Preisträger / Awardees 2009

Christoph Kayser

Max-Planck-Institut für biologische Kybernetik

Spike-phase coding boosts and stabilizes the information carried by spatial and temporal spike patterns

Neuron 2009;61(4):597-608; DOI 10.1016/j.neuron.2009.01.008

Matthis Synofzik

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

The cerebellum updates predictions about the visual consequences of one's behavior

Current Biology 2008;18:814-818

Preisträger / Awardees 2008

Andreas Bartels

Max-Planck-Institut für biologische Kybernetik

Natural vision reveals regional specialization to local motion and to contrast-invariant, global flow in the human brain

Cerebral Cortex 2008;18:709-717

Oana Tudusciuc

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

Neuronal population coding of continuous and discrete quantity in the primate posterior parietal cortex

Proc. Natl. Acad. Sci. USA 2007;104:14513-14518

Preisträger / Awardees 2007

Antonino Casile

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

Non-visual motor training influences biological motion perception

Current Biology 2006;16:69-74

Manuela Nowotny

Universitäts-HNO-Klinik, Tübingen

Nanomechanics of the subtektorial space caused by electromechanics of cochlear outer hair cells

Proc. Natl. Acad. Sci. USA 2006;103:2120-2125

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Axel Lindner

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

Disorders of agency in schizophrenia correlate with an inability to compensate for the sensory consequences of actions

Current Biology 2005;15:1119-1124

Andrew E. Welchman

Max-Planck-Institut für biologische Kybernetik, Tübingen

3D shape perception from combined depth cues in human visual cortex

Nature Neuroscience 2005;8:820-827

Preisträger / Awardees 2005

Katrien de Graaf

Hertie-Institut für klinische Hirnforschung, Abt. Allgemeine Neurologie

MHC class II isotype- and allele-specific attenuation of experimental autoimmune encephalomyelitis

Journal of Immunology 2004;173:2792-2802

Andreas Luft

Hertie-Institut für klinische Hirnforschung, Abt. Allgemeine Neurologie

Motor skill learning depends on protein synthesis in motor cortex after training

Journal of Neuroscience 2004;24:6515-6520

Preisträger / Awardees 2004

Alla Ignashchenkova

Hertie-Institut für klinische Hirnforschung, Abt. Kognitive Neurologie

Neuron specific contribution of the superior colliculus to overt and covert shifts of attention

Nature Neuroscience 2004;7:56-64

Manuel Frieze

Hertie-Institut für klinische Hirnforschung, Abt. Allgemeine Neurologie

MICA/NKG2D-mediated immunogene therapy of experimental gliomas

Cancer Research 2003;63:8996-9006

Preisträger / Awardees 2003

Zoe Kourtzi

Max-Planck-Institut für biologische Kybernetik, Tübingen

Perceptual organization of local elements into global shapes in the human visual cortex

Current Biology 2003;13:342-349

Mikael Simons

Hertie-Institut für klinische Hirnforschung, Abt. Allgemeine Neurologie

Overexpression of the myelin proteolipid protein leads to accumulation of cholesterol and proteolipid protein in endosomes/lysosomes: implications for Pelizaeus-Merzbacher disease

Journal of Cell Biology 2002; 157:327-336

Preisträger / Awardees 2002

Tilo Kircher

Klinik für Psychiatrie und Psychotherapie, Tübingen

Neural correlates of formal thought disorder in schizophrenia: preliminary findings from a functional magnetic resonance imaging study

Arch Gen Psychiatry 2001;58:769-774

Dominik Oliver

Physiologisches Institut Tübingen

Intracellular anions as the voltage sensor of prestin, the outer hair cell motor protein

Science 2001;292:2340-2343

Preisträger / Awardees 2001

Carsten Pusch

Molekulargenetisches Labor, Universitäts-Augenklinik, Tübingen

The complete form of X-linked congenital stationary night blindness is caused by mutations in a gene encoding a leucine-rich repeat protein

Nature Genetics 2000;26:324-327

Wolfgang Wick

Hertie-Institut für klinische Hirnforschung, Abt. Allgemeine Neurologie

Sublethal irradiation promotes migration and invasiveness of glioma cells: implications for radiotherapy of human glioblastoma

Cancer Research 2001;61:2744-2750

Ezrin-dependent promotion of glioma cell clonogenicity, motility, and invasion mediated by BCL-2 and transforming growth factor-beta2

Journal of Neuroscience 2001;21:3360-3368

Preisträger / Awardees 2000

Marc Ernst

Max-Planck-Institut für biologische Kybernetik, Tübingen

Touch can change visual slant perception

Nature Neuroscience 2000;3:69-73

Stefan Treue

Neurologische Universitätsklinik Tübingen, Abt. Kognitive Neurologie

Feature-based attention influences motion processing gain in macaque visual cortex

Nature 1999;399:575-579

Preisträger / Awardees 1999

Susanne Kohl

Molekulargenetisches Labor, Universitäts-Augenklinik, Tübingen

Total colourblindness is caused by mutations in the gene encoding the alpha-subunit of the cone photoreceptor cGMP-gated cation channel

Nature Genetics 1998;19:257-259

Sandra Single

Friedrich-Miescher-Labor, Max-Planck-Institute, Tübingen

Dendritic integration and its role in computing image velocity

Science 1998;281:1848-1850

Preisträger / Awardees 1998

Rainer Friedrich

Max-Planck-Institut für Entwicklungsbiologie, Tübingen

Combinatorial and chemotopic odorant coding in the zebrafish olfactory bulb visualized by optical imaging

Neuron 1997;18:737-752

Thomas Haarmeier

Neurologische Universitätsklinik Tübingen

False perception of motion in a patient who cannot compensate for eye movements

Nature 1997;389:849-852

Preisträger / Awardees 1997

Paul Pauli

Institut für Medizinische Psychologie und Verhaltensneurobiologie

Behavioral and neurophysiological evidence for altered processing of anxiety-related words in panic disorder

Journal of Abnormal Psychology 1997;106

Cornelius Schwarz

Neurologische Universitätsklinik Tübingen

Comparison of projection neurons in the pontine nuclei and the nucleus reticularis tegmenti pontis of the rat

Journal of Comparative Neurology 1996;376:403-419

Preisträger / Awardees 1996

Michael Fetter

Neurologische Universitätsklinik Tübingen, Abt. Allgemeine Neurologie

Vestibular neuritis spares the inferior division of the vestibular nerve

Brain 1996;119:755-763

Serena Preyer

Universitäts-HNO-Klinik, Tübingen

Preisträger / Awardees 1995

Karl Gegenfurtner

Max-Planck-Institut für biologische Kybernetik, Tübingen

Temporal and chromatic properties of motion mechanisms

Vision Research 1995;35:1547-1563

Hans-Otto Karnath

Neurologische Universitätsklinik Tübingen

Subjective body orientation in neglect and the interactive contribution of neck muscle proprioception and vestibular stimulation

Brain 1994;117:1001-1012

Preisträger / Awardees 1994

Mathias Bähr

Neurologische Universitätsklinik Tübingen

Appearance of target-specific guidance information for regenerating axons after CNS lesions

Neuron 1993;11:975-983

Friedemann Pulvermüller

Institut für Medizinische Psychologie und Verhaltensneurobiologie, Tübingen

Lexical decision after left, right and bilateral presentation of function words, content words and non-words: evidence for interhemispheric interaction

Neuropsychologia 1994;32:105-124

Behavioral and neuronal changes during treatment of mixed transcortical aphasia: a case study

Cognition 1993;48:139-161

Preisträger / Awardees 1993

Kurt Lingenhöhl

Zoologisches Institut, Tierphysiologie

Riesenneurone in der Formatio reticularis der Ratte: Ein neuronales Korrelat der akustischen Schreckreaktion?

Christoph Redies

Max-Planck-Institut für Entwicklungsbiologie, Tübingen

Restricted expression of N- and R-cadherin on neurites of the developing chicken CNS

Journal of Neuroscience 1992;12:3525-3534

Preisträger / Awardees 1992

Hermann Ackermann

Neurologische Universitätsklinik Tübingen

Articulatory deficits in Parkinsonian dysarthria: an acoustic analysis

J Neurol Neurosurg Psychiatry 1991;54:1093-1098

Johannes Zanker

Max-Planck-Institut für biologische Kybernetik, Tübingen

Theta motion: a paradoxical stimulus to explore higher order motion extraction

Vision Research 1993;33:553-569

Preisträger / Awardees 1991

Thomas Klockgether

Neurologische Universitätsklinik Tübingen

NMDA antagonists potentiate antiparkinsonian actions of L-dopa in monoamine-depleted rats

Ann Neurol 1990;128:539-546

Frank Schaeffel

Universitäts-Augenklinik, Tübingen

Developing eyes that lack accommodation grow to compensate for imposed defocus

Vis Neurosci 1990;4:177-183

Properties of the feedback loops controlling eye growth and refractive state in the chicken

Vision Research 1991;31:717-734

Preisträger / Awardees 1990

Tobias Bonhoeffer

Max-Planck-Institut für biologische Kybernetik, Tübingen

Synaptic plasticity in rat hippocampal slice cultures: local "Hebbian" conjunction of pre- and postsynaptic stimulation leads to distributed synaptic enhancement

Proc. Natl. Acad. Sci USA 1989;86:8113-8117

Frank Schneider

Psychiatrische Universitätsklinik Tübingen

Computer-based analysis of facial action in schizophrenic and depressed patients

Eur Arch Psychiatry Clin

Neurosci 1990;240:67-76

Preisträger / Awardees 1989

Manfred Caesar

Zellkulturen als in vitro-Modell in der Neurobiologie: histologische und physiologische Untersuchungen an Hippocampus- und Cortex-Slice-Kulturen

Buch, 1989

Thomas Nägele

Neuroradiologie, Radiologische Universitätsklinik Tübingen

MR-Volumetrie und Relaxationszeitmessungen vor und nach Alkoholentzug

Dissertation

Preisträger / Awardees 1988

Solon Thanos

Universitäts-Augenklinik Tübingen

Outgrowth and directional specificity of fibers from embryonic retinal transplants in the chick optic tectum

Developmental Brain Research 1987;32:161-179

Hans-Peter Thier

Neurologische Universitätsklinik Tübingen

Neuronal activity in the dorsolateral pontine nucleus of the alert monkey modulated by visual stimuli and eye movements

Experimental Brain Research 1988;70:496-512

Preisträger / Awardees 1986

Eckhard Friauf

Institut für Biologie III, Universität Tübingen

Morphology of motoneurons in different subdivisions of rat facial nucleus stained intracellularly with horseradish peroxidase

Journal of Comparative Neurology 1986;253:231-241

Charlotte Helfrich-Förster

Institut für Biologie I, Universität Tübingen

Use of *Drosophila melanogaster* brain mutants for the localization of the pacemaker of circadian locomotor activity rhythm

J Neurogenetics 1987;4:137-140

Preisträger / Awardees 1985

Manfred Fahle

Universitäts-Augenklinik Tübingen

Curvature detection in the visual field and a possible physiological correlate

Experimental Brain Research 1986;63:113-124

Günther Schmalzing

Institut für Toxikologie, Universität Tübingen

Coupling of Li⁺ distribution to the plasma membrane potential of rat cortical synaptosomes

J Biol Chem 1986;261:650-656

Preisträger / Awardees 1984

Hans-Christoph Diener

Neurologische Universitätsklinik Tübingen

The significance of delayed long-loop responses to ankle displacement for the diagnosis of multiple sclerosis

Electroencephalogr Clin Neurophysiol 1984;57:336-342

Thomas Elbert

Psychologisches Institut, Universität Tübingen

Patterns of stimulus- and self-induced slow brain potentials - a sign of task-specific preparation

Hum Neurobiol 1986;5:67-69