

MEMBERSHIP APPLICATION FORM

I herewith apply for membership in the German Neuroscience Society

Entry into the membership directory of the German Neuroscience Society.:

Name	
First Name	
Title	
Affiliation:	
Institution (University, Company)	
Department	
Street	
Postal code + City + Country	
Telephone number	
Fax	
Email	
Private address:	
Street	
Postal code + City + Country	
Telephone number / Fax	

I am a student (enclose certificate): yes no Year of birth _____

I am: female male diverse

Membership Categories and Fees:

- Seniors (Professor, PD, PI, Group Leader, etc.) 100,-- EURO/Year
- Postdocs (post-graduate, PhD, Dr., etc.) 80,-- EURO/Year
- Students, members in parental leave, retired and unemployed members 40,-- EURO/Year

Terms and conditions of the membership can be found in the statutes (available in German only: https://nwg-info.de/de/ueber_uns/satzung). By signing this document I confirm that I am aware of it and accept the statutes and privacy policy.

Date: _____ Signature: _____

I support this application for membership in the German Neuroscience Society

Name, Address of NWG Member

Name, Address of NWG Member

Date/Signature

Date/Signature

MEMBERSHIP APPLICATION FORM**I choose the following 2 sections:**

- | | |
|---|---|
| <input type="checkbox"/> Behavioural Neurobiology | <input type="checkbox"/> Developmental Neurobiology und Neurogenetics |
| <input type="checkbox"/> Cellular Neurobiology | <input type="checkbox"/> Molecular Neurobiology |
| <input type="checkbox"/> Clinical Neuroscience | <input type="checkbox"/> Neuropharmacology and -toxicology |
| <input type="checkbox"/> Cognitive Neuroscience | <input type="checkbox"/> Systems Neurobiology |
| <input type="checkbox"/> Computational Neuroscience | <input type="checkbox"/> Young German Neuroscience Society - jNWG |

My area of work involves the following fields (please choose no more than five topics from the list below and fill in the numbers):

- | | | |
|---|---|------------------|
| 1. <input type="text"/> <input type="text"/> <input type="text"/> | 2. <input type="text"/> <input type="text"/> <input type="text"/> | Others:
_____ |
| 3. <input type="text"/> <input type="text"/> <input type="text"/> | 4. <input type="text"/> <input type="text"/> <input type="text"/> | _____ |
| 5. <input type="text"/> <input type="text"/> <input type="text"/> | | _____ |

My spectrum of methods involves the following fields (please choose no more than five topics from the list below and fill in the numbers):

- | | | |
|---|---|------------------|
| 1. <input type="text"/> <input type="text"/> <input type="text"/> | 2. <input type="text"/> <input type="text"/> <input type="text"/> | Others:
_____ |
| 3. <input type="text"/> <input type="text"/> <input type="text"/> | 4. <input type="text"/> <input type="text"/> <input type="text"/> | _____ |
| 5. <input type="text"/> <input type="text"/> <input type="text"/> | | _____ |

- I agree with the use of any data for scientific information processing (**FENS membership**).
This decision can be revoked at any time.

Please send your application to:

Stefanie Korthals
Neurowissenschaftliche Gesellschaft e.V.
Max-Delbrück-Centrum für Molekulare Medizin
Robert-Rössle-Str. 10
13125 Berlin

or send it via email/fax to:

korthals@mdc-berlin.de, +49 30 9406 2813

Topics

Please choose no more than **five topics** from the list below and fill in the numbers to the form:

Development and Plasticity

- 1 cell proliferation and lineage
- 2 cell migration
- 3 cell determination and differentiation
- 4 process outgrowth
- 5 trophic agents
- 6 (neuro)trophic factors
- 7 substrates, ECM, cell adhesion molecules
- 8 synaptogenesis
- 9 regressive events in neural development
- 10 endocrine control and development
- 11 nutritional and prenatal factors
- 12 plasticity in adult animals
- 13 regeneration and sprouting
- 14 transplantations
- 15 developmental disorders
- 16 regional and system development
- 17 ageing

Cell Biology

- 18 apoptosis, cell death
- 19 gene structure and function
- 20 regulation of gene expression
- 21 peptide and protein processing and sorting
- 22 membrane composition and cell-surface macromolecules
- 23 cytoskeleton, axonal transport
- 24 neuroglia and myelin
- 25 blood-brain barrier
- 26 neuroimmunology
- 27 staining and tracing techniques
- 28 protein chemistry
- 29 second messenger pathways

Excitable Membranes and Synaptic Transmission

- 30 synaptic structure and function
- 31 presynaptic mechanisms
- 32 postsynaptic mechanisms
- 33 pharmacology of synaptic transmission
- 34 ion channels
- 35 ion channels modulation and regulation
- 36 functional synaptic plasticity

Neurotransmitters, Modulators and Receptors

- 37 free radicals
- 38 (anti) oxidants
- 39 acetylcholine, cholinergic receptors
- 40 excitatory amino acids and their receptors
- 41 amino acids, GABA, benzodiazepines and receptors
- 42 peptides
- 43 opioids
- 44 catecholamines and their receptors
- 45 uptake, storage, secretion and metabolism
- 46 interactions between neurotransmitters,
- 47 co-transmission, co-localisation
- 48 regional localisation of receptors and transmitters
- 49 behavioural pharmacology
- 50 nucleotides and their receptors
- 51 other neuroactive substances (e.g. NO, adenosine)
- 52 serotonin and its receptors

Neuroendocrine and Autonomic Regulation

- 53 neuroendocrine control
- 54 regulation of autonomic and cardiovascular functions
- 55 biological rhythms and sleep
- 56 brain metabolism

Sensory Systems

- 57 somatic and visceral afferents
- 58 spinal cord
- 59 somatosensory pathways and cortex
- 60 sensory ganglia
- 61 pain
- 62 retina and photoreceptors

- 63 visual pathways and cortex
- 64 auditory systems
- 65 chemical senses
- 66 invertebrate sensory systems

Motor Systems and Sensorimotor Integration

- 67 cortex
- 68 basal ganglia
- 69 thalamus
- 70 cerebellum
- 71 vestibular system
- 72 oculomotor system
- 73 reflex function
- 74 spinal cord and brainstem
- 75 control of posture and movement
- 76 circuitry and pattern generation
- 77 invertebrate motor function
- 78 muscle

Other Systems of the CNS

- 79 limbic system
- 80 hypothalamus
- 81 hippocampus and amygdala
- 82 association cortex
- 83 brain stem systems
- 84 comparative neuroanatomy
- 85 brain of invertebrates
- 86 ventral cord of invertebrates

Behaviour

- 87 human behavioural neurobiology
- 88 brain function and language
- 89 interhemispheric relations lateralisation
- 90 transgenic/gene knockout animals and behaviour
- 91 learning and memory
- 92 spatial cognition
- 93 motivation and emotion
- 94 neuroethology
- 95 invertebrate learning and behaviour
- 96 feeding and drinking
- 97 hormonal control of behaviour
- 98 monoamines and behaviour
- 99 neuropeptides and behaviour
- 100 drugs of abuse
- 101 psychotherapeutic drugs
- 102 behavioural aspects of ageing
- 103 invertebrate sensory systems
- 104 invertebrate motor systems

Disorders of the Nervous System

- 105 genetic models
- 106 epilepsy
- 107 Alzheimer's
- 108 Parkinson's
- 109 Huntington's
- 110 degenerative disease others
- 111 ischemia/hypoxia
- 112 cerebrovascular diseases
- 113 tumors
- 114 neuromuscular diseases
- 115 motor neuron diseases
- 116 neuropathy
- 117 neuroprotection
- 118 behavioural disorders
- 119 neurotoxicity
- 120 neural prostheses
- 121 clinical neurophysiology
- 122 psychosis
- 123 anxiety disorders

Computational Approaches

- 124 neural networks
- 125 artificial intelligence

Methods

Please choose no more than **five methods** from the list below and fill in the numbers to the form

Neuroanatomical Methods

- 1 histological techniques
- 2 in situ hybridization
- 3 receptor binding techniques
- 4 tracing techniques
- 5 immunocytochemistry
- 6 electron microscopy/immunoelectron microscopy
- 7 intracellular marking

Cellular and Developmental Neuroscience

- 8 cell culture techniques
- 9 organotypic tissue culture
- 10 neuronal cell culture
- 11 glial cell culture
- 12 immortalizing central nervous system cells
- 13 techniques to measure cell proliferation, necrosis and apoptosis
- 14 experimental transplantation

Gene Cloning, Expression and Mutagenesis

- 15 PCR
- 16 cloning of neural gene products
- 17 interaction trap/two-hybrid system to identify interacting proteins
- 18 transient expression of proteins
- 19 mutagenesis approaches to study protein structure-function relationship
- 20 Gene targeting
- 21 Transgenic animals

Molecular Neuroscience

- 22 RNA analyses by nuclease protection
- 23 reducing gene expression in the brain via antisense methods
- 24 production of antibodies
- 25 epitope tagging of recombinant proteins
- 26 transcriptome analysis (DD-PCR, CHIPS, SAGE)
- 27 hyperexpression of proteins in situ
- 28 deletion of genes (knockout techniques)
- 29 proteomanalysis (2-D gel electrophoresis)
- 30 Knock-out methodology
- 31 germline transgenic methodology
- 32 somatic transgenic methodology
- 33 protein chemistry

Neurophysiology

- 34 use of brain slices
- 35 acute isolation of neural cells
- 36 extracellular recording techniques
- 37 intracellular recording techniques with sharp microelectrodes
- 38 patch-clamp recording
- 39 imaging nervous system activity
- 40 recording from behaving animals
- 41 recording from whole brains/ganglia

Neurochemistry/Neuropharmacology

- 42 microdialysis
- 43 analyzing radioligand binding data
- 44 ligand characterization using microphysiometry
- 45 uptake and release of neurotransmitters
- 46 optical uncaging of compounds
- 47 analysis of brain metabolism
- 48 protein chemistry
- 49 peptide sequencing
- 50 ELISA
- 51 systemic or local manipulation of brain functions

Behavioral Neuroscience

- 52 EMGs, EEGs, recording of locomotory activity
- 53 locomotor behavior
- 54 sexual and reproductive behavior
- 55 animal tests of anxiety
- 56 learning and memory
- 57 measures of food intake and ingestive behaviour
- 58 methods of behavioral pharmacology
- 59 methods of behavioral physiology
- 60 sensory and perceptual physiology
- 61 psychophysics
- 62 navigation and orientation
- 63 choice strategies and optimization of behavior

Clinical Neuroscience

- 64 PET
- 65 MRI
- 66 DOPPLER
- 67 MEG
- 68 EEG
- 69 evoked potentials
- 70 CSF-analysis
- 71 animal models for diseases

Model Organisms

- 72 C. elegans
- 73 Drosophila
- 74 zebrafish
- 75 mouse
- 76 rat
- 77 human
- 78 annelid
- 79 mollusc
- 80 crustacean
- 81 insect
- 82 arthropod
- 83 invertebrate (other)
- 84 fish
- 85 amphibians and reptiles
- 86 rodent
- 87 bird (avian)
- 88 mammal
- 89 primate