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|  | **Neurowissenschaftliche Gesellschaft e.V.** |

MEMBERSHIP APPLICATION FORM

I herewith apply for the 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, Junior-Prof., 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 MemberDate/Signature | Name, Address of NWG MemberDate/Signature |

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MEMBERSHIP APPLICATION FORM

**I choose the following 2 sections:**

|  |  |
| --- | --- |
| ❑ Behavioural Neurobiology | ❑ Developmental Neurobiology und Neurogenetics |
| ❑ Cellular Neurobiology | ❑ Molecular Neurobiology |
| ❑ Clinical Neuroscience | ❑ Neuropharmacology and -toxicology |
| ❑ Cognitive Neuroscience | ❑ Systems Neurobiology |
| ❑ Computational Neuroscience |  |

**I am a student and opt** (in addition) **for the Young German Neuroscience Society (jNWG):**

❑ yes ❑ no

**My area of work involves the following fields:**

(please choose **no more then five topics** from the list below and fill in the numbers)

|  |  |  |
| --- | --- | --- |
| 1.  | 2.  | Others: |
| 3.  | 4.  |  |
| 5.  |  |  |

**My spectrum of methods involves the following fields:**

(please choose **no more then five topics** from the list below and fill in the numbers)

|  |  |  |
| --- | --- | --- |
| 1.  | 2.  | Others: |
| 3.  | 4.  |  |
| 5.  |  |  |

❑ 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: or send it via email to:

Stefanie Korthals korthals@mdc-berlin.de

Neurowissenschaftliche Gesellschaft e.V.

Max-Delbrück-Centrum für Molekulare Medizin

Robert-Rössle-Str. 10

13125 Berlin

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|  | **Neurowissenschaftliche Gesellschaft e.V.** |

# Payment

Annual Fee:

Seniors (Professor, PD, PI, Group Leader, Junior-Prof., 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

**SEPA Direct Debit Mandate**

Creditor identifier of the GNS: DE64NWG00001110437

I authorise the German Neuroscience Society to withdraw the annual membership fee

of ❑ 100,-- EURO/Year ❑ 80,-- EURO/Year ❑ 40,-- EURO/Year.

from the following **bank account (only SEPA area)**:

IBAN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Bank: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

BIC/SWIFT Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Furthermore, I inform my bank to debit my account in accordance with the instructions from the GNS.

Place, Date: Signature: \_\_\_\_\_

Account holder (Name, first name): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Payment via** ❑ **VISA-Card or** ❑ **Euro-/Mastercard**

Card number:

 (These are the sixteen digits on the front of your credit card) (These are the three digits on

 the back of your card)

Exp. Date: / Name of the card holder: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Amount: \_\_\_\_\_\_\_\_\_\_\_ EURO Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Bank Transfer**

Correspondent bank: Deutsche Bank IBAN: DE55 1007 0848 0463 8664 05

 BIC / SWIFT-CODE: DEUTDEDB110

Please send your application to: or send it via email to:

Stefanie Korthals korthals@mdc-berlin.de

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Max-Delbrück-Centrum für Molekulare Medizin

Robert-Rössle-Str. 10

13125 Berlin

**Topics**

Please choose no more then **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**

1. apoptosis, cell death
2. gene structure and function
3. regulation of gene expression
4. peptide and protein processing and sorting
5. membrane composition and cell‑surface macromolecules
6. cytoskeleton, axonal transport
7. neuroglia and myelin
8. blood‑brain barrier
9. neuroimmunology
10. staining and tracing techniques
11. protein chemistry
12. second messenger pathways

**Excitable Membranes and Synaptic Transmission**

1. synaptic structure and function
2. presynaptic mechanisms
3. postsynaptic mechanisms
4. pharmacology of synaptic transmission
5. ion channels
6. ion channels modulation and regulation
7. functional synaptic plasticity

**Neurotransmitters, Modulators and Receptors**

1. free radicals
2. (anti) oxidants
3. acetylcholine, cholinergic receptors
4. excitatory amino acids and their receptors
5. amino acids, GABA, benzodiazepines and receptors
6. peptides
7. opioids
8. catecholamines and their receptors
9. uptake, storage, secretion and metabolism
10. interactions between neurotransmitters,
11. co‑transmission, co‑localisation
12. regional localisation of receptors and transmitters
13. behavioural pharmacology
14. nucleotides and their receptors
15. other neuroactive substances (e.g. NO, adenosine)
16. serotonin and its receptors

**Neuroendocrine and Autonomic Regulation**

1. neuroendocrine control
2. regulation of autonomic and cardiovascular functions
3. biological rhythms and sleep
4. brain metabolism

**Sensory Systems**

1. somatic and visceral afferents
2. spinal cord
3. somatosensory pathways and cortex
4. sensory ganglia
5. pain
6. retina and photoreceptors
7. visual pathways and cortex
8. auditory systems
9. chemical senses
10. invertebrate sensory systems

**Motor Systems and Sensorimotor Integration**

1. cortex
2. basal ganglia
3. thalamus
4. cerebellum
5. vestibular system
6. oculomotor system
7. reflex function
8. spinal cord and brainstem
9. control of posture and movement
10. circuitry and pattern generation
11. invertebrate motor function
12. muscle

**Other Systems of the CNS**

1. limbic system
2. hypothalamus
3. hippocampus and amygdala
4. association cortex
5. brain stem systems
6. comparative neuroanatomy
7. brain of invertebrates
8. ventral cord of invertebrates

**Behaviour**

1. human behavioural neurobiology
2. brain function and language
3. interhemispheric relations lateralisation
4. transgenic/gene knockout animals and behaviour
5. learning and memory
6. spatial cognition
7. motivation and emotion
8. neuroethology
9. invertebrate learning and behaviour
10. feeding and drinking
11. hormonal control of behaviour
12. monoamines and behaviour
13. neuropeptides and behaviour
14. drugs of abuse
15. psychotherapeutic drugs
16. behavioural aspects of ageing
17. invertebrate sensory systems
18. invertebrate motor systems

**Disorders of the Nervous System**

1. genetic models
2. epilepsy
3. Alzheimer's
4. Parkinson's
5. Huntington's
6. degenerative disease others
7. ischemia/hypoxia
8. cerebrovascular diseases
9. tumors
10. neuromuscular diseases
11. motor neuron diseases
12. neuropathy
13. neuroprotection
14. behavioural disorders
15. neurotoxicity
16. neural protheses
17. clinical neurophysiology
18. psychosis
19. anxiety disorders

**Computational Approaches**

1. neural networks
2. 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**

1. cell culture techniques
2. organotypic tissue culture
3. neuronal cell culture
4. glial cell culture
5. immortalizing central nervous system cells
6. techniques to measure cell prolifaration, necrosis and apoptosis
7. experimental transplantation

**Gene Cloning, Expression and Mutagenesis**

1. PCR
2. cloning of neural gene products
3. interaction trap/two-hybrid system to identify interacting proteins
4. transient expression of proteins
5. mutagenesis approaches to study protein structure-function relationship
6. Gene targeting
7. Transgenic animals

**Molecular Neuroscience**

1. RNA analyses by nuclease protection
2. reducing gene expression in the brain via antisense methods
3. production of antibodies
4. epitope tagging of recombinant proteins
5. transcriptome analysis (DD-PCR, CHIPS, SAGE)
6. hyperexpression of proteins in situ
7. deletion of genes (knockout techniques)
8. proteomanalysis (2-D gel electrophoresis)
9. Knock-out methodology
10. germline transgenic methodology
11. somatic transgenic methodology
12. protein chemistry

**Neurophysiology**

1. use of brain slices
2. acute isolation of neural cells
3. extracellular recording techniques
4. intracellular recording techniques with sharp microelectrodes
5. patch-clamp recording
6. imaging nervous system activity
7. recording from behaving animals
8. recording from whole brains/ganglia

**Neurochemistry/Neuropharmacology**

1. microdialysis
2. analyzing radioligand binding data
3. ligand characterization using microphysiometry
4. uptake and release of neurotransmitters
5. optical uncaging of comounds
6. analysis of brain metabolism
7. protein chemistry
8. peptide sequencing
9. ELISA
10. systemic or local manipulation of brain functions

**Behavioral Neuroscience**

1. EMGs. EEGSs, recording of locomotory activity
2. locomotor behavior
3. sexual and reproductive behavior
4. animal tests of anxiety
5. learning and memory
6. measures of food intake and ingestive behaviour
7. methods of behavioral pharmacology
8. methods of behavioral physiology
9. sensory and perceptual physiology
10. psychophysics
11. navigation and orientation
12. choice strategies and optimization of behavior

#### Clinical Neuroscience

### PET

1. MRI
2. DOPPLER
3. MEG
4. EEG
5. evoked potentials
6. CSF-analysis
7. animal models for diseases

**Model Organisms**

1. C. elegans
2. Drosophila
3. zebrafish
4. mouse
5. rat
6. human
7. annelid
8. mollusc
9. crustacean
10. insect
11. arthropod
12. invertebrate (other)
13. fish
14. amphibians and reptiles
15. rodent
16. bird (avian)
17. mammal
18. primate