



# 68<sup>th</sup> Annual Meeting of the German Society of Neuropathology and Neuroanatomy (DGNN)

September 12 - 14, 2024 in Regensburg



## Venue

University Hospital Regensburg  
Franz-Josef-Strauß-Allee 11  
93053 Regensburg  
Großer Hörsaal, Kleiner Hörsaal, D1 Mikroskopiersaal

## Organisation

*Julia Krutsch*  
KII Kongresse  
University Hospital Regensburg  
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## Registration

Online: <https://www.ukr.de/veranstaltung/dgnn-2409>



## Scientific Committee

Markus Riemenschneider, Regensburg  
Atik Baborie, Regensburg  
Patrick Harter, München  
Ulrich Schüller, Hamburg  
Christian Mawrin, Magdeburg  
Guido Reifenberger, Düsseldorf  
Christine Stadelmann-Nessler, Göttingen  
Joachim Weis, Aachen  
Manuela Neumann, Tübingen

## Hosting society:

German Society of Neuropathology and Neuroanatomy (DGNN)

## Sponsors / Exhibitors

Systemex Deutschland GmbH	4.000,00 € (Sponsor and Exhibitor)
SERVIER Deutschland GmbH	2.000,00 € (Sponsor)
Agilent Technologies Deutschland GmbH	1.000,00 € (Sponsor and Exhibitor)
NovoCure GmbH <b>novocure</b>	700,00 € (Sponsor and Exhibitor)
Carl Zeiss Microscopy Deutschland GmbH	500,00 € (Sponsor)

Sponsorship service for presentation and advertising purposes.

**Due to short term changes this final list varies from the list in the printed programme.**

## More Information

[www.ukr.de/neuropathologie](http://www.ukr.de/neuropathologie)

Sekretariat Neuropathologie  
Phone: +49 941 944 5150  
Fax: +49 941 944 5152  
E-Mail: [neuropathologie@ukr.de](mailto:neuropathologie@ukr.de)

## Congress language:

The official congress language is English. Selected sessions in German are designated in the programme.

**Please note, photographs will be taken at this event, if you prefer not to be photographed, please contact our congress management team or the photographer. Detailed data privacy information can be found at <https://www.ukr.de/neuropathologie/dgnn-annual-meeting-2024/registration>.**

# Programme

Thursday, September 12, 2024

09:00 - 12:00 **Pre-Congress Workshop NGS** (D1 Mikroskopiersaal)

Julia Lorenz, Tanja Rothhammer-Hampl, Katrin Mauch-Mücke, Annika Wefers, Regensburg

Introduction and practical start of the analysis of a DNA/RNA Panel

- LibraryPrep
  - o Starting material
  - o Overview of different techniques
  - o Panel design (commercial and custom panels), LibraryPrep
- NGS
  - o Requirements
  - o Sequencing methods
- Data analysis
  - o Requirements
  - o Bcl2Fastqs, fastq.file
  - o Mapping sequences to the reference genome: bam.files
  - o Quality parameters: fastQC, demultiplexing Stats, read counts, coverage, read distribution, deduplication rate
  - o SNP and small InDels calling, copy number analysis, LOH analysis, fusion analysis
- Data interpretation, hands on part:
  - o AMP / ASCO / CAP guideline (PMID: 27993330)
  - o Mutations, small InDels → IGV, OncoKG, InterVar, QCI: hands on interpretation
  - o Copy number variations / LOH
  - o RNA-Fusion → Cosmic Fusion curation
- Wrap up: Learning content summary, Quiz

13:00 - 13:20 **Congress Opening and Welcome**

*Markus Riemenschneider, Congress president DGNN 2024*

*Gertrud Maltz-Schwarzfischer, Mayor of the City of Regensburg*

*Udo Hebel, President, University of Regensburg*

*Dirk Hellwig, Dean of the Medical Faculty, University of Regensburg*

*Till Acker, Gießen, DGNN president*

13:20 - 15:15 **Neuroimmunology**

Chair: Christine Stadelmann-Nessler, Göttingen; Ralph Linker, Regensburg

- 20'+10' **Keynote Lecture:** *Marco Prinz, Freiburg*  
**Microglia and central nervous system-associated macrophages - From origin to disease modulation**
- 20'+ 5' *Philipp Beckhove, Regensburg:*  
Interventional immunology as a multipotent tool to treat brain diseases
- 15'+ 5' *Simon Hametner, Wien, Austria:*  
The role of iron deposits in brain tissue and chronic MS lesions
- 15'+5' *Markus Bauswein, Regensburg:*  
Borna Disease Virus 1 (BoDV-1) encephalitis – Novel insights from the Bornavirus focal point Bavaria
- 7'+3' *Friederike Liesche-Starnecker, Augsburg:*  
In-Depth Analysis of Viral Distribution and Immunological Profiling in Human Bornavirus Encephalitis
- 7'+3' *Deniz Yilmazer-Hanke, Ulm:*  
Global Cerebral Hypoxia-Ischemia: Ex vivo Ultrahigh Field MRI Signals Correlate with Differential Cortical Localization of Microglia and Gemistocytes Characterized by CHIT1 and CHI3L1 (YKL 40) Expression

15.15 - 15:45 **Coffee Break**

15:45 - 17:30 **Brain Tumors 1 (Classification, Miscellaneous)**

Chair: Guido Reifenberger, Düsseldorf; Torsten Pietsch, Bonn

- 20'+5' *Pieter Wesseling, Amsterdam/Utrecht, The Netherlands:*  
cIMPACT-NOW: Practical consequences of a balancing act
- 15'+5' *Sonika Dahiya, St. Louis, MO, USA:*  
Update on meningioma classification
- 15'+5' *Pascal Johann, Augsburg:*  
New vulnerabilities and mechanisms in SWI/SNF deficient CNS tumors
- 15'+5' *Abigail Suwala, Heidelberg:*  
IDH-mutant gliomas: novel subtypes
- 7'+3' *Ulrich Schüller, Hamburg:*  
Identification and description of a novel type of medulloblastoma

7'+3' *Rouzbeh Banan, Heidelberg:*  
Brain invasion in otherwise benign meningiomas: molecular characteristics and prognostic relevance

17:30 - 20:00 **Welcome Reception at the Posters**  
(exhibition space in front of Großer Hörsaal, 2nd floor, Lobby)

18:00 - 20:00 **General Meeting DGNN**  
(Kleiner Hörsaal)

Bavarian beer and Pretzels are served at both events.

### Friday, September 13, 2024

09:00 - 10:45 **Muscle / Nerv**

Chair: Joachim Weis, Aachen; Clemens Sommer, Mainz

20'+5' *Thomas Menter, Basel, Switzerland:*  
Hirschsprung and related diseases – Basics and diagnostic challenges

15'+5' *Ruth Stassart, Leipzig:*  
Nerve repair in diseases of the peripheral nervous system

15'+5' *Albena Jordanova, Antwerpen, Belgium:*  
Gene discovery efforts highlight the importance of peripheral neuropathy in the clinical spectrum of primary mitochondrial disorders

15'+5' *Maike Dohrn, Aachen:*  
Hereditary neuropathies - how genetic understanding translates into clinical disease management

7'+3' *Venkat Krishnan Sundaram, Leipzig:*  
Adipo-glia signaling mediates metabolic adaptation in peripheral nerve regeneration

7'+3' *Pascal Achenbach, Aachen:*  
Paving the path: the powerful effect of substrate topography on axon-repulsive Schwann cell-astrocyte barrier formation for spinal cord injury repair

10:45 - 11:15 **Coffee Break**

11:15 - 13:00 **Neurodegeneration**

Chair: Manuela Neumann, Tübingen; Atik Baborie, Regensburg

- 20'+5' *Jürgen Winkler, Erlangen:*  
Synucleinopathies - Recent insights into pathomechanisms and novel research trends
- 15'+5' *Henne Holstege, Amsterdam, The Netherlands:*  
Genomics of Neurodegenerative Diseases and Aging - Insights from the 100-plus Study
- 15'+5' *Dietmar Thal, Leuven, Belgium:*  
Regulated cell death in neurodegenerative disorders
- 15'+5' *Valerio Zenatti, München:*  
Endo-lysosomal dysfunction and neuronal-glia crosstalk in Niemann Pick type C disease
- 7'+3' *Felix L. Struebing, München:*  
Alpha-synuclein co-pathology in Alzheimer's disease drives tau accumulation
- 7'+3' *Gunnar Hargus, New York, NY, USA:*  
Frontotemporal dementia patient neurons with the MAPT-N279K mutation are responsive to tau filaments and contribute to neuroinflammation in vivo

13:00 - 15:00 **Main Poster Viewing Session**

With light lunch at the posters.

(exhibition space in front of Großer Hörsaal, 2nd floor, Lobby)

Join the Poster Spotlight Presentations!

(Moderation: Christian Mawrin, Magdeburg)

parallel offer: **Individual Counseling for your proposal with the German Research Foundation (DFG)**

Dr. Michael Müller, DFG

Programme Officer for Molecular and Cellular Neurology and Neuropathology (Kleiner Hörsaal)

(Appointments available from 13:00 - 15:00 in 15 minute intervals)

Dr. Michael Müller offers individual advice for (early career) researchers who are planning to submit a research proposal to the German Research Foundation (DFG). Topics such as the appropriate funding programme for your career stage, opportunities and pitfalls in the application process or general questions about DFG proposals can be discussed here.

Please scan the QR code to register.



15:00 - 16:50 **Brain Tumors 2 (Innovative Methods)**

Chair: Markus Riemenschneider, Regensburg; Patrick Harter, München

- 15'+5' *Daniel Amsel, Gießen:*  
METIS: A Meningioma Testset for Inter-Institutional Domain Shifts in Computational Histopathology
- 15'+5' *Roman Sankowski, Freiburg:*  
Context-dependent CAM (CNS-associated macrophage) signatures in human patients with glioblastoma
- 15'+5' *Philipp Euskirchen, Berlin:*  
Brain tumor diagnostics by nanopore sequencing – an update
- 15'+5' *Ulrich Schüller, Hamburg:*  
Specific DNA methylation patterns and CNV profiles in mouse models of paediatric tumors
- 7'+3' *Pinar Cakmak, Frankfurt:*  
Spatial multiomics profiling reveals heterogeneity of B:T cell interactions and plasma cell formation in tertiary lymphoid structures in human gliomas
- 7'+3' *Christian Thomas, Münster:*  
Ultra-rapid bacterial detection from neuropathology specimens using next-generation PCR and nanopore sequencing
- 7'+3' *Antonia Gocke, Hamburg:*  
CCNV: R package for enhanced cumulative copy number variation analysis

17:00 - 18:00 **Parallel Sessions**

**Session 1: Großer Hörsaal**

**Session 2: Kleiner Hörsaal**

**Session 1**



**BZKF-Studiengruppe Hirntumoren - Molekulares Tumorboard**

(Session in German)

**Diskussionspanel:**

*Louisa von Baumgarten, Peter Hau, Martin Proescholdt, Julia Lorenz, Patrick Harter, Annika Wefers, Markus Riemenschneider*

Detektion molekularer Veränderungen mittels des TSO500-Panels

Variantenannotation, Studienannotation (Klinische Signifikanz- und Evidenzgraduierung)

Fallbeispiele (z.B. Tumor mit EGFR-Veränderung, IDH-mutiertes Gliom, Gliome mit hoher Mutationslast, etc.)

## Session 2 **JuNe / Young Neuropathologists Career Seminar**



(Session in German)

Chair: Roman Sankowski, Freiburg; Benjamin Englert, Helsinki

- 15' *Azadeh Ebrahimi, Bonn:*  
Der Weg zur Habilitation: Lang, steinig, aber lohnenswert?!
- 15' *Christine Stadelmann-Nessler, Göttingen:*  
Fördermöglichkeiten für Nachwuchswissenschaftler
- 15' *Katrin Frauenknecht, Dudelange, Luxembourg:*  
Karrierewege über Landesgrenzen hinweg
- 15' Fragen und Austausch zwischen Teilnehmenden und Referentinnen

## 20:00 **Social Evening**

Brauhaus am Schloss,  
Waffnergasse 6,  
93047 Regensburg  
[www.brauhaus-am-schloss.com](http://www.brauhaus-am-schloss.com)



Please note, to attend this event, advance registration was required by September 6, 2024.

**Saturday, September 14, 2024**

## 09:00 - 11:00 **Mini-Symposium on Quality Assurance in Neuropathology**



In cooperation with the Quality Insurance Commission of the DGNN  
(Session in German)

Chair: Markus Riemenschneider, Regensburg; Kaspar Matiasek, München

- 15'+5' *Simona Curelea, Berlin:*  
Grundlagen der Akkreditierung in der Neuropathologie



- 15'+5' *Felix Sahm, Heidelberg:*  
Entwicklung von fachlichen Leitlinien zur Akkreditierung von molekularneuropathologischen Verfahren
- 15'+5' *Thomas Pilz, Berlin:*  
Vorstellung der QULP (Qualitätssicherungs-Initiative Pathologie)
- 15'+5' *Katrin Mauch-Mücke, Regensburg:*  
Ringversuchslandschaft in der Neuropathologie
- 15'+5' *Michael Vogeser, München:*  
Die Ad-hoc-Kommission In-vitro Diagnostik (IVD) in der AWMF
- 15'+5' *Alonso Barrantes-Freer, Leipzig:*  
Beispiele zur Umsetzung der IVDR in der Neuropathologie

11.00 - 11.30 **Coffee Break**

11:30 - 13:30 **Highlights in Clinical and Translational Research**

Chair: Nils Ole Schmidt, Regensburg; Ulrich Schüller, Hamburg

- 15'+5' *Clair Gardiner, Dublin, Ireland:*  
Targeting NK cell function to restore patient anti-cancer immunity
- 15'+5' *Selim Corbacioglu, Regensburg:*  
Irinotecan and temozolomide in combination with dasatinib and rapamycin for patients with relapsed or refractory neuroblastoma: results of the prospective randomized RIST trial
- 15'+5' *Volker Neuschmelting, Köln:*  
Intraoperative stimulated Raman histology for personalized brain tumor surgery
- 15'+5' *Peter Hau and Tanja Rothhammer-Hampl, Regensburg:*  
Evaluating national standards and response patterns in molecular neurooncological tumor boards
- 15'+5' *Henrik Heiland, Erlangen/Freiburg:*  
Transitioning spatial and single cell multiomics into clinical applications
- 15'+5' *Beate Winner, Erlangen:*  
Induced pluripotent stem cells and brain organoids as disease models in neurological research

13:30-14:00 **Closing Ceremony and Awards**

**Funding Price Neurodegeneration of the Sibylle Assmus Foundation**

*(Laudatio: Markus Riemenschneider, Regensburg)*

10'            Award Winner Lecture: Dasha Nelidova, Basel, Switzerland:  
Restoring vision by near-infrared light sensors

**Werner-Rosenthal-Prize of the DGNN**

*(Laudatio: Christian Mawrin, Magdeburg)*

5'            Award Winner Presentation

**Theodor-Schwann-Prize of the DGNN** *(Laudatio: Joachim Weis, Aachen)*

**Poster Awards and Closing Remarks** *(Markus Riemenschneider, Regensburg)*