



NEUROCHIRURGIE DER ZUKUNFT

Publikationen 2025 -2020



UNIVERSITÄTSKLINIK FÜR NEUROCHIRURGIE



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Foreword



Univ.-Prof. DDR. Karl Rössler, Head of Department

It is with great pleasure that we present the scientific publications of the Vienna University Department of Neurosurgery from the years 2020–2025. This compilation documents the high level of scientific activity within our department and, in particular, reflects the exceptional commitment and professional expertise of all staff members in both research and clinical practice.

The year 2025 was especially characterized by technological innovation. The consistent integration of modern high-tech solutions into daily neurosurgical practice established new standards in the precision, safety, and personalization of neurosurgical procedures. Artificial intelligence, augmented reality, intraoperative navigation, and robotics have become essential components of our clinical and scientific work and contribute significantly to the further development and improvement of patient care.

The publications summarized here demonstrate our commitment not only to applying technological innovation, but also to actively shaping and scientifically evaluating it. The close integration of clinical practice, translational research, and international collaboration forms the foundation of our scientific success.

Together, we will continue to consistently align the advancement of neurosurgery with the benefit of our patients.

Publikationsliste 2025
97 Publikationen
Gesamt Impact Factor 2025: 651.43

1. Anselm Joseph Gadenstaetter, Alice Barbara Auinger, Matthias Gerlitz, Dominik Riss, Erdem Yildiz, Karl Roessler, Christian Matula, Valerie Dahm, Christoph Arnoldner: *Long-Term Follow-Up After Translabyrinthine IAC Tumor Removal With Simultaneous Cochlear Implantation*. *Otol Neurotol*. 2025 Dec 1;46(10):1310-1315. doi: 10.1097/MAO.0000000000004313. Epub 2025 Nov 12. **IF: 2**
2. Anna Antoni, Philipp Puhl, Lukas Wedrich, Rebecca Wagner, Matthias Millesi, Valerie Weihs, Elisabeth Schwendenwein, Silke Aldrian, Stefan Hajdu: *Impact of Different DOACs on Complications of TBI After Low-Energy Trauma*. *J Clin Med*. 2025 Dec 11;14(24):8787. doi: 10.3390/jcm14248787. **IF: 2.9**
3. Farjad Khalaveh, Silvan Busch, Mehmet-Salih Yildirim, Julia Shawarba, Matthias Tomschik, Johannes Herta, Christian Matula, Karl Roessler: *Polymethylmethacrylate versus autologous bone flap reconstruction after retrosigmoid vestibular schwannoma surgery: impact on wound healing and patient satisfaction*. *World Neurosurg*. 2025 Dec 26:124760. doi: 10.1016/j.wneu.2025.124760. Online ahead of print. **IF: 2.1**
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8. Yildirim Mehmet Salih; Hedrich Cora; Azizi Amedeo; Peyrl Andreas; Gojo Johannes; Kiesel Barbara; Kasprian Gregor; Dorfer Christian: *Impact of Childhood Cerebellar Tumor Surgery on White Matter Integrity in adulthood: Insights from Automated Tract Segmentation*. *Neuro-Oncology* 2025 Nov. doi: 10.1093/neuonc/noaf201.1228. **IF: 13.4**
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12. Mair Maximilian J.; Werner Jan-Michael; Weller Jonathan; Barci Enio; Katzendobler Sophie; Isakaj Jera; Berchtold Luzia; Aras Thedora; Sturzl Roman; Hennenberg Juliane; Reis Jonas; Puhr Hannah C.; Schabhtl Thomas; Kiesel Barbara; Widhalm Georg; Wohrer Adelheid; Nakuz Thomas; Hacker Marcus; Furtner Julia; Schonecker Stephan; Harter Patrick N.; Von Baumgarten Louisa; Berghoff Anna S.; Thon Niklas; Preusser Matthias; Albert Nathalie L.: *[18F]Fluoroethyltyrosine and [11C]methionine PET for prognostic stratification of newly diagnosed IDH-mutant gliomas - a retrospective, bicentric cohort study*. Neuro-Oncology. 2025 Nov. doi: 10.1093/neuonc/noaf201.1162. **IF: 13.4**
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