



MEDIZINISCHE
FAKULTÄT

Forschungsbericht 2023

Institut für Neuropathologie

INSTITUT FÜR NEUROPATHOLOGIE

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1. LEITUNG

Professor Dr. med. Christian Mawrin

2. HOCHSCHULLEHRER/INNEN

Professor Dr. med. Christian Mawrin
Prof. Dr. rer. nat. habil. Elmar Kirches

3. FORSCHUNGSPROFIL

- Rolle mitochondrialer Eisenproteine im Gehirn
- Rolle von mTORC1 und seine pharmakologische und gentechnische Manipulierbarkeit in Meningeomen
- Differentielle Expression und Bedeutung einzelner miRNAs in Meningeomen unterschiedlicher WHO-Grade
- Einfluss von Stoffwechselfparametern und mTOR-Komplexen für die Migration von Tumorzellen
- Kleine GTPasen bei Meningeomen
- Neue onkogene Mutationen bei Meningeomen (AKT1, KLF4, SMO)
- Integrine bei Meningeomen

4. EIGENE KONGRESSE, WISSENSCHAFTLICHE TAGUNGEN UND EXPONATE AUF MESSEN

Jahrestagung der Deutschen Gesellschaft für Neuropathologie und Neuroanatomie im September 2019 in Magdeburg

5. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Akkurt, Burak Han; Spille, Dorothee; Peetz-Dienhart, Susanne; Kiolbassa, Nora Maren; Mawrin, Christian; Musigmann, Manfred; Heindel, Walter Leonhard; Paulus, Werner; Stummer, Walter; Mannil, Manoj; Brokinkel, Benjamin Legolas

Radiomics-based prediction of TERT promotor mutations in intracranial high-grade meningiomas
Cancers - Basel : MDPI, Bd. 15 (2023), Heft 17, Artikel 4415, insges. 9 S.
[Imp.fact.: 5.2]

Aldabek, Dirar; Deckert, Martina; Mawrin, Christian; Warnke, Jan-Peter

Colloid cyst with hyphal-like structures - a rarity that mimics actinomycosis of the third ventricle
Clinical neuropathology - Deisenhofen, München : Dustri-Verl., Bd. 42 (2023), Heft 1/2, S. 26-29
[Imp.fact.: 1.1]

Andersen, Mikkel Schou; Kofoed, Mikkel Seremet; Paludan-Müller, Asger Sand; Pedersen, Christian Bonde; Mathiesen, Tiit; Mawrin, Christian; Wirenfeldt, Martin; Kristensen, Bjarne Winther; Olsen, Birgitte Brinkmann; Halle, Bo; Poulsen, Frantz Rom

Meningioma animal models - a systematic review and meta-analysis
Journal of translational medicine - London : BioMed Central, Bd. 21 (2023), Artikel 764, insges. 38 S.
[Imp.fact.: 7.4]

Aousji, Oumayma; Feldengut, Simone; Antonucci, Stefano; Schön, Michael Peter; Böckers, Tobias M.; Matschke, Jakob; Mawrin, Christian; Ludolph, Albert C.; Del Tredici, Kelly; Roselli, Francesco; Braak, Heiko

Patterns of synaptic loss in human amyotrophic lateral sclerosis spinal cord - a clinicopathological study
Acta Neuropathologica Communications - London : Biomed Central, Bd. 11 (2023), Artikel 120, insges. 15 S.
[Imp.fact.: 7.1]

Chen, William C.; Choudhury, Abrar; Youngblood, Mark W.; Polley, Mei-Yin C.; Lucas, Calixto-Hope G.; Mirchia, Kanish; Maas, Sybren L. N.; Suwala, Abigail Kora; Won, Minhee; Bayley, James C.; Harmanci, Akdes S.; Harmanci, Arif O.; Klisch, Tiemo; Nguyen, Minh P.; Vasudevan, Harish N.; McCortney, Kathleen; Yu, Theresa J.; Bhave, Varun; Lam, Tai-Chung; Pu, Jenny Kan-Suen; Li, Lai-Fung; Leung, Gilberto Ka-Kit; Chan, Jason W.; Perlow, Haley K.; Palmer, Joshua D.; Haberler, Christine; Bergmeister-Berghoff, Anna Sophie; Preusser, Matthias; Nicolaidis, Theodore P.; Mawrin, Christian; Agnihotri, Sameer; Resnick, Adam; Rood, Brian R.; Chew, Jessica; Young, Jacob S.; Boreta, Lauren; Braunstein, Steve E.; Schulte, Jessica; Butowski, Nicholas; Santagata, Sandro; Spetzler, David; Bush, Nancy Ann Oberheim; Villanueva-Meyer, Javier E.; Chandler, James P.; Solomon, David; Rogers, C. Leland; Pugh, Stephanie L.; Mehta, Minesh P.; Sneed, Penny K.; Berger, Mitchel S.; Horbinski, Craig M.; McDermott, Michael W.; Perry, Arie; Bi, Wenya Linda; Patel, Akash J.; Sahm, Felix; Magill, Stephen T.; Raleigh, David R.

Targeted gene expression profiling predicts meningioma outcomes and radiotherapy responses
Nature medicine - New York, NY : Nature America Inc., Bd. 29 (2023), Heft 12, S. 3067-3076
[Imp.fact.: 82.9]

Chung, Ha-Yeun; Wickel, Jonathan; Hahn, Nina; Mein, Nils; Schwarzbrunn, Meike; Koch, Philipp-Sebastian; Ceangă, Mihai; Haselmann, Holger; Baade-Büttner, Carolin; Steckelberg, Nikolai; Hempel, Nina; Schmidl, Lars; Groth, Marco; Andreas, Nico; Götze, Juliane; Coldewey, Sina M.; Bauer, Michael; Mawrin, Christian; Dargvainiene, Justina; Leypoldt, Frank; Steinke, Stephan; Wang, Zhao-Qi; Hust, Michael; Geis, Christian

Microglia mediate neurocognitive deficits by eliminating C1q-tagged synapses in sepsis-associated encephalopathy
Science advances - Washington, DC [u.a.]: Assoc., Bd. 9 (2023), Heft 21, Artikel eabq7806, insges. 17 S.
[Imp.fact.: 13.6]

Dumitru, Claudia-Alexandra; Schröder, Hannah; Schäfer, Frederik Till Alexander; Aust, Jan Friedrich; KreBe, Nina; Siebert, Carl Ludwig Raven; Stein, Klaus-Peter; Haghikia, Aiden; Wilkens, Ludwig Bernhard; Mawrin, Christian; Sandalcioglu, I. Erol

Progesterone receptor membrane component 1 (PGRMC1) modulates tumour progression, the immune microenvironment and the response to therapy in glioblastoma
Cells - Basel : MDPI, Bd. 12 (2023), Heft 20, Artikel 2498, insges. 16 S.

[Imp.fact.: 6.0]

Fürtjes, Gina; Reinecke, David; Spreckelsen, Niklas; Meißner, Anna-Katharina; Rueß, Daniel Friedrich; Timmer, Marco; Freudiger, Christian W.; Ion-Margineanu, Adrian; Khalid, Florian; Watrinet, Konstantin; Mawrin, Christian; Chmyrov, Andriy; Goldbrunner, Roland; Bruns, Oliver; Neuschmelting, Volker

Intraoperative microscopic autofluorescence detection and characterization in brain tumors using stimulated Raman histology and two-photon fluorescence

Frontiers in oncology - Lausanne : Frontiers Media, Bd. 13 (2023), S. 1-12, Artikel 1146031, insges. 12 S.

[Imp.fact.: 4.7]

Kros, Johan M.; Rushing, Elisabeth Jane; Uwimana, Aimé L.; Hernández-Laín, Aurelio; Michotte, Alex; Al-Hussaini, Maysa; Bielle, Franck; Mawrin, Christian; Marucci, Gianluca; Tesileanu, C. Mircea S.; Stupp, Roger; Baumert, Brigitta; Van den Bent, Martin J.; French, Pim J.; Gorlia, Thierry

Mitotic count is prognostic in IDH mutant astrocytoma without homozygous deletion of CDKN2A/B - results of consensus panel review of EORTC trial 26053 (CATNON) and EORTC trial 22033-26033

Neuro-Oncology - Oxford : Oxford Univ. Press, Bd. 25 (2023), Heft 8, S. 1443-1449

[Imp.fact.: 15.9]

Müller, Ulf Joachim; Schmalenbach, Lucas J.; Dobrowolny, Henrik; Guest, Paul C.; Schlaaff, Konstantin; Mawrin, Christian; Truebner, Kurt; Bogerts, Bernhard; Gos, Tomasz; Bernstein, Hans-Gert; Steiner, Johann

Reduced anterior insular cortex volume in male heroin addicts - a postmortem study

European archives of psychiatry and clinical neuroscience - Darmstadt : Steinkopff, Bd. 273 (2023), Heft 6, S. 1233-1241

[Imp.fact.: 4.7]

Scheer, Maximilian; Simmermacher, Sebastian; Prell, Julian; Leisz, Sandra; Scheller, Christian; Mawrin, Christian; Strauss, Christian; Rampp, Stefan

Recurrences and progression following microsurgery of vestibular schwannoma

Frontiers in Surgery - Lausanne : Frontiers Media, Bd. 10 (2023), Artikel 1216093, insges. 7 S.

[Imp.fact.: 1.8]

Spindler, Kai Jörg; Mawrin, Christian; Strauss, Christian; Prell, Julian Konrad Theodor

Cranial and spinal metastasis of a nonfunctioning pituitary adenoma - Report of a case

Journal of neurological surgery / A - New York, NY : Thieme, Bd. 84 (2023), Heft 4, S. 394-398

[Imp.fact.: 1.0]

Tauziède-Espariat, Arnault; Pfister, Stefan M.; Mawrin, Christian; Sahm, Felix

Pediatric meningiomas - a literature review and diagnostic update

Neuro-oncology advances - Oxford : Oxford University Press, Bd. 5 (2023), S. i105-i111, insges. 7 S.

[Imp.fact.: 3.5]

Tröscher, Anna R.; Mair, Katharina M.; Juan, Laia Verdú; Köck, Ulrike; Steinmaurer, Anja; Baier, Hartmut; Becker, Albert; Blümcke, Ingmar; Finzel, Martin; Geis, Christian; Höftberger, Romana; Mawrin, Christian; Oertzen, Tim J.; Pitsch, Julika; Surges, Rainer; Voges, Berthold Rolf; Weis, Serge; Winklehner, Michael; Wörmann, Friedrich Gerrit; Bauer, Jan; Bien, Christian G.

Temporal lobe epilepsy with GAD antibodies - neurons killed by T cells not by complement membrane attack complex

Brain - Oxford : Oxford Univ. Press, Bd. 146 (2023), Heft 4, S. 1436-1452

[Imp.fact.: 14.5]

BEGUTACHTETE BUCHBEITRÄGE

Wang, Justin Z.; Nassiri, Farshad; Mawrin, Christian; Zadeh, Gelareh

Genomic landscape of meningiomas

Biological and Clinical Landscape of Meningiomas , 1st ed. 2023. - Cham : Springer International Publishing ; Zadeh, Gelareh, S. 137-158

ABSTRACTS

Candemir, Özge; Hahn, Nina; Chung, Ha-Yeun; Wickel, Jonathan; Schwarzbrunn, Meike; Koch, Philipp; Stackelberg, Nikolai; Groth, Marco; Mawrin, Christian; Steinke, Stephan; Hust, Michael; Skerka, Christine; Geis, Christian

C1q dependent synaptic pruning in sepsis-associated encephalopathy (SAE)

Immunobiology - München : Elsevier, Bd. 228 (2023), Heft 5, S. 61, Artikel 152596

[Imp.fact.: 2.8]

Mawrin, Christian; Luchtman, Michael; Kirches, Elmar

Molecular characterization of glioma tissue after TTFIELDS treatment

Neuro-Oncology - Oxford : Oxford Univ. Press, Bd. 25 (2023), Heft Supplement_5, S. v176, Artikel PATH-38

[Imp.fact.: 15.9]

Umatham, Vincent Gottfried; Dettmeyer, Reinhard B.; Mawrin, Christian; Acker, Till; Schänzer, Anne

Cerebral intussusceptive angiogenesis - distinct small vessel pathology associated with COVID-19

Brain pathology - Oxford : Wiley-Blackwell, Bd. 33 (2023), Heft S 1, S. 137-139, Artikel S21-NI-A237

[Imp.fact.: 6.4]