



Richard Drexler

Postdoctoral Scholar, Neurology and Neurological Sciences

Bio

HONORS AND AWARDS

- Marit Mary Swenson Award for Pediatric DMG/DIPG, Society of Neuro-Oncology (2024)
- Award for Excellence in Cancer Neuroscience, Society of Neuro-Oncology (2023)

PROFESSIONAL EDUCATION

- Resident, University Medical Center Hamburg-Eppendorf (Germany) , Neurosurgery
- PhD, Medical School Hannover (Germany) , Cancer Biology (2021)
- MD, Semmelweis University Budapest (Hungary) & University of Oxford (UK) (2020)

STANFORD ADVISORS

- Michelle Monje-Deisseroth, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Neuronal activity-dependent mechanisms of small cell lung cancer pathogenesis.** *Nature*
Savchuk, S., Gentry, K. M., Wang, W., Carleton, E., Biagi-Junior, C. A., Luthria, K., Yalçın, B., Ni, L., Farnsworth, H. C., Davis, R. A., Drexler, R., Melms, J. C., Liu, et al
2025
- **Cholinergic neuronal activity promotes diffuse midline glioma growth through muscarinic signaling.** *Cell*
Drexler, R., Drinnenberg, A., Gavish, A., Yalçın, B., Shamardani, K., Rogers, A. E., Mancusi, R., Trivedi, V., Taylor, K. R., Kim, Y. S., Woo, P. J., Soni, N., Su, et al
2025
- **Characterizing and targeting glioblastoma neuron-tumor networks with retrograde tracing.** *Cell*
Tetzlaff, S. K., Reyhan, E., Layer, N., Bengtson, C. P., Heuer, A., Schroers, J., Faymonville, A. J., Langeroudi, A. P., Drewa, N., Keifert, E., Wagner, J., Soyka, S. J., Schubert, et al
2024
- **Myelin plasticity in the ventral tegmental area is required for opioid reward.** *Nature*
Yalçın, B., Pomrenze, M. B., Malacon, K., Drexler, R., Rogers, A. E., Shamardani, K., Chau, I. J., Taylor, K. R., Ni, L., Contreras-Esquivel, D., Malenka, R. C., Monje, M.
2024
- **A prognostic neural epigenetic signature in high-grade glioma.** *Nature medicine*
Drexler, R., Khatri, R., Sauvigny, T., Mohme, M., Maire, C. L., Ryba, A., Zghaibeh, Y., Duhren, L., Salviano-Silva, A., Lamszus, K., Westphal, M., Gempt, J., Wefers, et al

2024

- **Safety in epilepsy surgery: a multicenter analysis of surgery-related complications and seizure outcome in 1167 cases of mesial temporal lobe epilepsy.** *Journal of neurosurgery*
Pantel, T., Drexler, R., Ben-Haim, S., Rada, A., Woermann, F. G., Cloppenborg, T., Bien, C. G., Simon, M., Kalbhenn, T., Colon, A., Rijkers, K., Schijns, O., Borger, et al
2026: 1-10
- **Dysregulated Microglial Synaptic Engulfment in Diffuse Midline Glioma.** *bioRxiv : the preprint server for biology*
Mancusi, R., Tatlock, E., Shamardani, K., Acosta-Alvarez, L., Drexler, R., Trivedi, V., Gavish, A., Niizuma, K., Soni, N., Woo, P., Mulinyawe, S., Jahan, S., Logan, et al
2025
- **Serotonergic neuron-glioma interactions drive high-grade glioma pathophysiology.** *bioRxiv : the preprint server for biology*
Drexler, R., Yalçın, B., Mancusi, R., Rogers, A., Shamardani, K., Woo, P. J., Ravel, A., Wu, S., Yabo, Y. A., Steger, L., de Biagi-Junior, C. A., Cascio, C. L., Malenka, et al
2025
- **LEVETIRACETAM THERAPEUTICALLY TARGETS GABAERGIC SYNAPSES IN DIFFUSE MIDLINE GLIOMA**
Barron, T., Yalcin, B., Su, M., Mochizuki, A., Drexler, R., Cantor, E., Byun, Y., Gavish, A., Shamardani, K., Xu, H., Ni, L., Soni, N., Tlais, et al
OXFORD UNIV PRESS INC.2025: v69
- **Sex-Based Immune Divergence in Glioblastoma Correlates with Distinct T Cell States and Survival Outcomes**
Senta Ryba, A., Maire, C., Muller, C., Runger, A., Drexler, R., Fita, K., Reetz, M., Ricklefs, F., Duhrsen, L., Westphal, M., Lamszus, K., Mohme, M.
OXFORD UNIV PRESS INC.2025: v213
- **TARGETING NEURON-GLIOMA CHLORIDE CROSS-TALK IN GLIOBLASTOMA**
Krishna, S., Gonzales, C., Drexler, R., Sibih, Y., Lee, K., Dada, A., Daniel, A., Soledad, M., Gulati, A., Viswanath, P., Cadwell, C., Monje, M., Hervey-Jumper, et al
OXFORD UNIV PRESS INC.2025: v76
- **DECODING THE SPATIAL ARCHITECTURE OF INTEGRATED ELECTROPHYSIOLOGICAL AND TRANSCRIPTOMIC DIVERSITY IN MALIGNANT BRAIN TUMORS**
Grabis, E., Hilfiger, L., Villa, G., Waldmann, J., Drexler, R., Mancusi, R., Zhang, J., Yabo, Y. A., Menzl, L., Kueckelhaus, J., Peng, T., Van Hijfte, L., Muhlbauer, et al
OXFORD UNIV PRESS INC.2025: v54
- **ADRENERGIC NEURONS OF THE LOCUS COERULEUS PROMOTE DIFFUSE MIDLINE GLIOMA GROWTH**
Gloria Byun, Y., Kim, Y., Gavish, A., Barron, T., Andini, N., Ivec, A., Drexler, R., Su, M., Woo, P., Geraghty, A., Logan, N., Deisseroth, K., Monje, et al
OXFORD UNIV PRESS INC.2025: v70
- **PSILOCYBIN INDUCES SUSTAINED GLIOMA GROWTH THROUGH SEROTONERGIC AND TRKB PATHWAYS**
Drexler, R., Yalcin, B., Mancusi, R., Rogers, A., Shamardani, K., Woo, P., Ravel, A., Yabo, Y. A., De Biagi-Junior, C., Lo Cascio, C., Malenka, R., Heifets, B., Filbin, et al
OXFORD UNIV PRESS INC.2025: v61-v62
- **International survey-based assessment of the reliability, validity, and interpretability of the TDN grade for neurosurgical adverse events.** *Scientific reports*
Terrapon, A. P., Kalin, V., Zeitlberger, A. M., Weller, J., Kissling, C., Neidert, N., Mohme, M., El-Garci, A., Juratli, T. A., Dao Trong, P., Stienen, M. N., Hostettler, I. C., Broggi, et al
2025; 15 (1): 37600
- **Evaluation of Intraoperative Adverse Events and Perioperative Outcomes in Pediatric Neurosurgery.** *World neurosurgery*
Middelkamp, M., Drexler, R., Groth, F. S., Sauvigny, T., Ricklefs, F. L., Kammler, G., Zeidler, E. M., Dührsen, L.
2025: 124434
- **Neuroigin-3 interaction with CSPG4 regulates normal and malignant glial precursors through PIEZO1.** *bioRxiv : the preprint server for biology*
Gillespie, S. M., Seok Kim, Y., Geraghty, A. C., Yalçın, B., Mancusi, R., Hysinger, J., English Ivec, A., Reed, J., Drexler, R., Quezada, M., Malacon, K., Woo, P., Mount, et al
2025

- **High peritumoral network connectedness in glioblastoma reveals a distinct epigenetic signature and is associated with decreased overall survival.** *Neuro-oncology*
Jütten, K., Ort, J., Kernbach, J. M., Meyer-Baese, A., Meyer-Baese, U., Hamou, H. A., Clusmann, H., Wiesmann, M., Bremer, J., Koch, H., Bak, A., Ricklefs, F., Drexler, et al
2025
- **Extracellular Vesicles Carrying Tenascin-C are Clinical Biomarkers and Improve Tumor-Derived DNA Analysis in Glioblastoma Patients.** *ACS nano*
Salviano-Silva, A., Wollmann, K., Brenna, S., Reimer, R., Neumann, J. E., Dottermusch, M., Woythe, L., Maire, C. L., Puig, B., Schuller, U., Saul, M. J., Westphal, M., Drexler, et al
2025
- **Molecular-based decision-making in glioblastoma surgery: when to aim for supramaximal resection.** *Neuro-oncology*
Drexler, R., Lim, M., Hervey-Jumper, S. L.
2025
- **Peripheral blood-derived immune cell counts as prognostic indicators and their relationship with DNA methylation subclasses in glioblastoma patients.** *Brain pathology (Zurich, Switzerland)*
Asey, B., Pantel, T. F., Mohme, M., Zghaibeh, Y., Dührsen, L., Silverbush, D., Schüller, U., Drexler, R., Ricklefs, F. L.
2025: e13334
- **Cancer neuroscience and glioma: clinical implications.** *Acta neurochirurgica*
Westphal, M., Drexler, R., Maire, C., Ricklefs, F., Lamszus, K.
2025; 167 (1): 2
- **Transcription enhanced associate domain factor 1 (TEAD1) predicts liver regeneration outcome of ALPPS-treated patients.** *HPB : the official journal of the International Hepato Pancreato Biliary Association*
Küchler, M., Ehmke, M., Jaquet, K., Wohlmuth, P., Feldhege, J. M., Reese, T., Hartmann, T., Drexler, R., Huber, T., Burmester, T., Oldhafer, K. J.
2024
- **BRAINSTEM NEUROMODULATORY NEURONS PROMOTE GLIOMA GROWTH LOCALLY AND VIA LONG-RANGE PROJECTIONS TO MIDLINE AND CORTICAL STRUCTURES**
Drexler, R., Drinnenberg, A., Gavish, A., Yalcin, B., Shamardani, K., Rogers, A., Mancusi, R., Taylor, K., Kim, Y., Woo, P., Ravel, A., Tatlock, E., Jokhai, et al
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- **IMPACT OF DEPRESSION AND ITS TREATMENT ON SURVIVAL AND TUMOR PROGRESSION IN RTK2 GLIOBLASTOMAS: IDENTIFICATION OF A HIGH-RISK SUBGROUP**
Zghaibeh, Y., Brembach, F., Silverbush, D., Gempt, J., Schueller, U., Monje, M., Heiland, D., Drexler, R., Ricklefs, F.
OXFORD UNIV PRESS INC.2024
- **A multicenter study of clinical outcomes and volumetric trends in suspected microprolactinomas.** *Neurosurgical review*
Hong, C. S., Chabros, J., Kilgallon, J. L., Gerstl, J. V., Omara, C., Drexler, R., Flitsch, J., Ricklefs, F. L., Ryba, A. S., Mazzatenta, D., Guaraldi, F., Corrales, C. E., Min, et al
2024; 47 (1): 703
- **Cholinergic Neuronal Activity Promotes Diffuse Midline Glioma Growth through Muscarinic Signaling.** *bioRxiv : the preprint server for biology*
Drexler, R., Drinnenberg, A., Gavish, A., Yalcin, B., Shamardani, K., Rogers, A., Mancusi, R., Taylor, K. R., Kim, Y. S., Woo, P. J., Ravel, A., Tatlock, E., Ramakrishnan, et al
2024
- **Distinct relapse pattern across molecular ependymoma types.** *Neuro-oncology*
Obrecht-Sturm, D., Schoof, M., Eckhardt, A., Mynarek, M., Gilbert, M. R., Aldape, K., Armstrong, T. S., Ramaswamy, V., Bockmayr, M., von Hoff, K., Fleischhack, G., Adolph, J. E., Tippelt, et al
2024
- **Sex-dependent characteristics and outcomes after clipping of unruptured intracranial aneurysms: a multicenter propensity score-matched study.** *Journal of neurosurgery*
Drexler, R., Sauvigny, J., Pantel, T. F., Ricklefs, F. L., Catapano, J. S., Wanebo, J. E., Lawton, M. T., Sanchin, A., Hecht, N., Vajkoczy, P., Raygor, K. P., Tonetti, D. A., Abla, et al
2024: 1-8

- **Circulating extracellular vesicles as biomarker for diagnosis, prognosis and monitoring in glioblastoma patients.** *Neuro-oncology*
Ricklefs, F. L., Wollmann, K., Salviano-Silva, A., Drexler, R., Maire, C. L., Kaul, M. G., Reimer, R., Schuller, U., Heinemann, S., Kolbe, K., Mummert, T., Glatzel, M., Peine, et al
2024
- **Defining benchmark outcomes for mesial temporal lobe epilepsy surgery: A global multicenter analysis of 1119 cases.** *Epilepsia*
Drexler, R., Ricklefs, F. L., Ben-Haim, S., Rada, A., Wörmann, F., Cloppenborg, T., Bien, C. G., Simon, M., Kalbhenn, T., Colon, A., Rijkers, K., Schijns, O., Borger, et al
2024
- **Corrigendum: Grade 3 Meningioma Survival and Recurrence Outcomes in an International Multicenter Cohort.** *Journal of neurological surgery. Part B, Skull base*
Tosefsky, K., Rebchuk, A. D., Wang, J. Z., Ellenbogen, Y., Drexler, R., Ricklefs, F. L., Sauvigny, T., Schuller, U., Cutler, C. B., Lucke-Wold, B., Mehkri, Y., Lama, S., Sutherland, et al
2024; 85 (Suppl 1): e1
- **Temporal change of DNA methylation subclasses between matched newly diagnosed and recurrent glioblastoma.** *Acta neuropathologica*
Drexler, R., Khatri, R., Schüller, U., Eckhardt, A., Ryba, A., Sauvigny, T., Dührsen, L., Mohme, M., Ricklefs, T., Bode, H., Hausmann, F., Huber, T. B., Bonn, et al
2024; 147 (1): 21
- **Microsurgical Clipping of Unruptured Anterior Circulation Aneurysms-A Global Multicenter Investigation of Perioperative Outcomes.** *Neurosurgery*
Sauvigny, J., Drexler, R., Pantel, T. F., Ricklefs, F. L., Catapano, J. S., Wanebo, J. E., Lawton, M. T., Sanchin, A., Hecht, N., Vajkoczy, P., Raygor, K., Tonetti, D., Abla, et al
2024
- **Unclassifiable CNS tumors in DNA methylation-based classification: clinical challenges and prognostic impact.** *Acta neuropathologica communications*
Drexler, R., Brembach, F., Sauvigny, J., Ricklefs, F. L., Eckhardt, A., Bode, H., Gempt, J., Lamszus, K., Westphal, M., Schüller, U., Mohme, M.
2024; 12 (1): 9
- **Survival probability of epigenetically defined IDH-wild-type glioblastoma without necrosis or vascular proliferation.** *Neuro-oncology advances*
Harter, P. N., Weber, K. J., Ricklefs, F. L., Drexler, R., Schuller, U., Hack, M., Hanke, T., Dohmen, H., Acker, T., von Deimling, A., Hasselblatt, M., Dive, I., Unger, et al
2024; 6 (1): vdae138
- **The role of surgical management for prolactin-secreting tumors in the era of dopaminergic agonists: An international multicenter report.** *Clinical neurology and neurosurgery*
Findlay, M. C., Sabahi, M., Azab, M., Drexler, R., Rotermund, R., Ricklefs, F. L., Flitsch, J., Smith, T. R., Kilgallon, J. L., Honegger, J., Nasi-Kordhishti, I., Gardner, P. A., Gersey, et al
2023; 236: 108079
- **NEURAL SIGNATURE OF GBM EXHIBITS SYNAPTOGENIC AND OPC-LIKE FEATURES AND INDEPENDENTLY PREDICTS PATIENT SURVIVAL**
Drexler, R., Khatri, R., Sauvigny, T., Mohme, M., Ryba, A., Duehrsen, L., Maire, C., Salviano-Silva, A., Lamszus, K., Westphal, M., Gempt, J., Wefers, A., Neumann, et al
OXFORD UNIV PRESS INC.2023
- **Mean global DNA methylation serves as independent prognostic marker in IDH wild type glioblastoma.** *Neuro-oncology*
Eckhardt, A., Drexler, R., Schoof, M., Struve, N., Capper, D., Jelgersma, C., Onken, J., Harter, P. N., Weber, K. J., Divé, I., Rothkamm, K., Hoffer, K., Klumpp, et al
2023
- **Epigenetic profiling reveals a strong association between lack of 5-ALA fluorescence and EGFR amplification in IDH-wildtype glioblastoma.** *Neuro-oncology practice*
Drexler, R., Sauvigny, T., Schüller, U., Eckhardt, A., Maire, C. L., Khatri, R., Hausmann, F., Hänzemann, S., Huber, T. B., Bonn, S., Bode, H., Lamszus, K., Westphal, et al
2023; 10 (5): 462-471

- **Crooke Cell Adenoma Confers Poorer Endocrinological Outcomes Compared with Corticotroph Adenoma: Results of a Multicenter, International Analysis.** *World neurosurgery*
Findlay, M. C., Drexler, R., Azab, M., Karbe, A., Rotermund, R., Ricklefs, F. L., Flitsch, J., Smith, T. R., Kilgallon, J. L., Honegger, J., Nasi-Kordhishti, I., Gardner, P. A., Gersey, et al
2023
- **Global Outcomes for Microsurgical Clipping of Unruptured Intracranial Aneurysms: A Benchmark Analysis of 2245 Cases.** *Neurosurgery*
Drexler, R., Sauvigny, T., Pantel, T. F., Ricklefs, F. L., Catapano, J. S., Wanebo, J. E., Lawton, M. T., Sanchin, A., Hecht, N., Vajkoczy, P., Raygor, K., Tonetti, D., Abla, et al
2023
- **In Reply: A Multicenter, Propensity Score-Matched Assessment of Endoscopic Versus Microscopic Approaches in the Management of Pituitary Adenomas.** *Neurosurgery*
Findlay, M. C., Drexler, R., Karsy, M.
2023
- **Defining Benchmark Outcomes for Transsphenoidal Surgery of Pituitary Adenomas: A Multicenter Analysis.** *European journal of endocrinology*
Drexler, R., Rotermund, R., Smith, T. R., Kilgallon, J. L., Honegger, J., Nasi-Kordhishti, I., Gardner, P. A., Gersey, Z. C., Abdallah, H. M., Jane, J. A., Marino, A. C., Knappe, U. J., Uksul, et al
2023
- **Grade 3 meningioma survival and recurrence outcomes in an international multicenter cohort.** *Journal of neurosurgery*
Tosefsky, K., Rebchuk, A. D., Wang, J. Z., Ellenbogen, Y., Drexler, R., Ricklefs, F. L., Sauvigny, T., Schüller, U., Cutler, C. B., Lucke-Wold, B., Mehkri, Y., Lama, S., Sutherland, et al
2023: 1-11
- **Epigenetic neural glioblastoma enhances synaptic integration and predicts therapeutic vulnerability.** *bioRxiv : the preprint server for biology*
Drexler, R., Khatri, R., Sauvigny, T., Mohme, M., Maire, C. L., Ryba, A., Zghaibeh, Y., Dührsen, L., Salviano-Silva, A., Lamszus, K., Westphal, M., Gempt, J., Wefers, et al
2023
- **Association of the classification of intraoperative adverse events (ClassIntra) with complications and neurological outcome after neurosurgical procedures: a prospective cohort study.** *Acta neurochirurgica*
Drexler, R., Ricklefs, F. L., Pantel, T., Göttische, J., Nitzschke, R., Zöllner, C., Westphal, M., Dührsen, L.
2023
- **A Multicenter, Propensity Score-Matched Assessment of Endoscopic Versus Microscopic Approaches in the Management of Pituitary Adenomas.** *Neurosurgery*
Findlay, M. C., Drexler, R., Khan, M., Cole, K. L., Karbe, A., Rotermund, R., Ricklefs, F. L., Flitsch, J., Smith, T. R., Kilgallon, J. L., Honegger, J., Nasi-Kordhishti, I., Gardner, et al
2023
- **Targeted anticonvulsive treatment of IDH-wildtype glioblastoma based on DNA methylation subclasses.** *Neuro-oncology*
Drexler, R., Göttische, J., Sauvigny, T., Schüller, U., Khatri, R., Hausmann, F., Hänzelmann, S., Huber, T. B., Bonn, S., Heiland, D. H., Delev, D., Venkataramani, V., Winkler, et al
2023
- **Impact of the SARS-CoV-2 pandemic on the survival of patients with high-grade glioma and best practice recommendations.** *Scientific reports*
Vogel, M. M., Wagner, A., Gempt, J., Krenzlín, H., Zeyen, T., Drexler, R., Voss, M., Nettekoven, C., Abboud, T., Mielke, D., Rohde, V., Timmer, M., Goldbrunner, et al
2023; 13 (1): 2766
- **DNA methylation subclasses predict the benefit from gross total tumor resection in IDH-wildtype glioblastoma patients.** *Neuro-oncology*
Drexler, R., Schüller, U., Eckhardt, A., Filipski, K., Hartung, T. I., Harter, P. N., Divé, I., Forster, M. T., Czabanka, M., Jelgersma, C., Onken, J., Vajkoczy, P., Capper, et al
2023; 25 (2): 315-325
- **Epigenetic profiling reveals a strong association between lack of 5-ALA fluorescence and EGFR amplification in IDH -wildtype glioblastoma** *Neuro-Oncology Practice*

Drexler, R., Sauvigny, T., Schüller, U., Eckhardt, A., Maire, C., Khatri, R., Hausmann, F., Hänzelmann, S., Huber, T., Bonn, S., Bode, H., Lamszus, K., Westphal, et al
2023

- **DNA methylation subclass receptor tyrosine kinase II (RTK II) is predictive for seizure development in glioblastoma patients.** *Neuro-oncology*
Ricklefs, F. L., Drexler, R., Wollmann, K., Eckhardt, A., Heiland, D. H., Sauvigny, T., Maire, C., Lamszus, K., Westphal, M., Schüller, U., Dührsen, L.
2022; 24 (11): 1886-1897
- **The Comprehensive Complication Index (CCI) as a Measure of Postoperative Morbidity and Neurological Outcome after Elective Intracranial Surgery.** *Journal of neurological surgery. Part A, Central European neurosurgery*
Drexler, R., Ricklefs, F. L., Pantel, T. F., Götsche, J., Westphal, M., Dührsen, L.
2022
- **Single-Center Experience Using a 3D4K Digital Operating Scope System for Aneurysm Surgery.** *Operative neurosurgery (Hagerstown, Md.)*
Pantel, T., Drexler, R., Götsche, J., Piffko, A., Westphal, M., Regelsberger, J., Dührsen, L.
2022; 22 (6): 433-439
- **Enhancing Safety in Epilepsy Surgery (EASINESS): Study Protocol for a Retrospective, Multicenter, Open Registry.** *Frontiers in neurology*
Drexler, R., Ben-Haim, S., Bien, C. G., Borger, V., Cardinale, F., Carpentier, A., Cendes, F., Chandra, S., Clusmann, H., Colon, A., de Curtis, M., Delev, D., Didato, et al
2021; 12: 782666
- **Impact of acute kidney injury after extended liver resections.** *HPB : the official journal of the International Hepato Pancreato Biliary Association*
Reese, T., Kröger, F., Makridis, G., Drexler, R., Jusufi, M., Schneider, M., Brüning, R., von Rittberg, Y., Wagner, K. C., Oldhafer, K. J.
2021; 23 (7): 1000-1007
- **The clinical relevance of the Hippo pathway in pancreatic ductal adenocarcinoma.** *Journal of cancer research and clinical oncology*
Drexler, R., Küchler, M., Wagner, K. C., Reese, T., Feyerabend, B., Kleine, M., Oldhafer, K. J.
2021; 147 (2): 373-391
- **Association of subcellular localization of TEAD transcription factors with outcome and progression in pancreatic ductal adenocarcinoma.** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*
Drexler, R., Fahy, R., Küchler, M., Wagner, K. C., Reese, T., Ehmke, M., Feyerabend, B., Kleine, M., Oldhafer, K. J.
2021; 21 (1): 170-179
- **Establishing a student-run free clinic in a major city in Northern Europe: a 1-year experience from Hamburg, Germany.** *Journal of public health (Oxford, England)*
Drexler, R., Frösche, F., Predel, C., Sturm, B., Ustorf, K., Lehner, L., Janzen, J., Valentin, L., Scheer, T., Lehnert, F., Tadzic, R., Oldhafer, K. J., Meyer, et al
2020; 42 (4): 793-798
- **Involvement of Medical Students During the Coronavirus Disease 2019 Pandemic: A Cross-Sectional Survey Study.** *Cureus*
Drexler, R., Hambrecht, J. M., Oldhafer, K. J.
2020; 12 (8): e10147
- **Significance of unphosphorylated and phosphorylated heat shock protein 27 as a prognostic biomarker in pancreatic ductal adenocarcinoma.** *Journal of cancer research and clinical oncology*
Drexler, R., Wagner, K. C., Küchler, M., Feyerabend, B., Kleine, M., Oldhafer, K. J.
2020; 146 (5): 1125-1137