

Neuro-onkologisch relevante wissenschaftliche Publikationen der
 Universitätsklinik für Neurochirurgie am Inselspital Bern und in
 Zusammenarbeit mit anderen Zentren

2019	<p>Seidel K, Hani L, Lutz K, Zbinden C, Redmann A, Consuegra A, Raabe A, Schucht P</p> <p>Postoperative navigated transcranial magnetic stimulation to predict motor recovery after surgery of tumors in motor eloquent areas.</p> <p>Clin Neurophysiol. 2019 Apr 5;130(6):952-959.</p>
	<p>Skinner SA, Aydinlar EI, Borges LF, Carter BS, Currier BL, Deletis V, Dong C, Dormans JP, Drost G, Fernandez-Conejero I, Hoffman EM, Holdefer RN, Kimaid PAT, Koht A, Kothbauer KF, MacDonald DB, McAuliffe JJ 3rd, Morledge DE, Morris SH, Norton J, Novak K, Park KS, Perra JH, Prell J, Rippe DM, Sala F, Schwartz DM, Segura MJ, Seidel K, Seubert C, Simon MV, Soto F, Strommen JA, Szelenyi A, Tello A, Ulkatan S, Urriza J, Wilkinson M.</p> <p>Is the new ASNM intraoperative neuromonitoring supervision "guideline" a trustworthy guideline? A commentary.</p> <p>J Clin Monit Comput. 2019 Apr;33(2):191-192.</p>
2018	<p>Seidel K, Biner MS, Zubak I, Rychen J, Beck J, Raabe A.</p> <p>Continuous dynamic mapping to avoid accidental injury of the facial nerve during surgery for large vestibular schwannomas.</p> <p>Neurosurg Rev. 2018 Oct 26. doi: 10.1007/s10143-018-1044-z.</p>
	<p>Gutt-Will M, Murek M, Schwarz C, Hwer E, Vulcu S, Beck J, Raabe A, Schucht P.</p> <p>Frequent Diagnostic Under-Grading in Isocitrate Dehydrogenase Wild-Type Gliomas due to Small Pathological Tissue Samples.</p> <p>Neurosurgery. 2018 Oct 17. doi:10.1093/neuros/nyy433.</p>
	<p>Moiyadi A, Velayutham P, Shetty P, Seidel K, Janu A, Madhugiri V, Singh V, Patil A, John R.</p> <p>Combined motor evoked potential monitoring and subcortical dynamic mapping in motor eloquent tumors allows safer and extended resections.</p> <p>World Neurosurg. 2018 Aug 20. pii: S1878-8750(18)31829-1.</p>

	<p>Pedrosa de Barros N, Meier R, Pletscher M, Stettler S, Knecht U, Herrmann E, Schucht P, Reyes M, Gralla J, Wiest R, Slotboom J.</p> <p>On the relation between MR spectroscopy features and the distance to MRI-visible solid tumor in GBM patients.</p> <p>Magn Reson Med. 2018 Dec;80(6):2339-2355.</p>
2017	<p>Kellner-Weldon F, Stippich C, Wiest R, Lehmann V, Meier R, Beck J, Schucht P, Raabe A, Reyes M, Bink A.</p> <p>Comparison of perioperative automated versus manual two-dimensional tumor analysis in glioblastoma patients.</p> <p>Eur J Radiol. 2017 Oct; 95:75-81.</p>
	<p>Hewer E, Prebil N, Berezowska S, Gutt-Will M, Schucht P, Dettmer MS, Vassella E.</p> <p>Diagnostic implications of TERT promoter mutation status in diffuse gliomas in a routine clinical setting.</p> <p>Virchows Arch. 2017 Nov;471(5):641-649.</p>
	<p>Sartori E, Langer R, Vassella E, Hewer E, Schucht P, Zlobec I, Berezowska S.</p> <p>Low co-expression of epidermal growth factor receptor and its chaperone heat shock protein 90 is associated with worse prognosis in primary glioblastoma, IDH-wild-type.</p> <p>Oncol Rep. 2017 Oct;38(4):2394-2400.</p>
	<p>Bogdańska MU, Bodnar M, Piotrowska MJ, Murek M, Schucht P, Beck J, Martínez-González A, Pérez-García VM.</p> <p>A mathematical model describes the malignant transformation of low grade gliomas: Prognostic implications.</p> <p>PLoS One. 2017 Aug 1;12(8):e0179999.</p>
	<p>Schucht P, Seidel K, Jilch A, Beck J, Raabe A.</p> <p>A review of monopolar motor mapping and a comprehensive guide to continuous dynamic motor mapping for resection of motor eloquent brain tumors.</p> <p>Neurochirurgie. 2017 Jun;63(3):175-180.</p>
	<p>Bogdańska MU, Bodnar M, Belmonte-Beitia J, Murek M, Schucht P, Beck J, Pérez-García VM.</p> <p>A mathematical model of low grade gliomas treated with temozolomide and its therapeutical implications.</p> <p>Math Biosci. 2017 Jun;288:1-13.</p>

	<p>Meier R, Porz N, Knecht U, Loosli T, Schucht P, Beck J, Slotboom J, Wiest R, Reyes M.</p> <p>Automatic estimation of extent of resection and residual tumor volume of patients with glioblastoma.</p> <p>J Neurosurg. 2017 Oct;127(4):798-806.</p>
	<p>Pérez-Beteta J, Martínez-González A, Molina D, Amo-Salas M, Luque B, Arregui E, Calvo M, Borrás JM, López C, Claramonte M, Barcia JA, Iglesias L, AVECILLAS J, Albillo D, Navarro M, Villanueva JM, Paniagua JC, Martino J, Velásquez C, Asenjo B, Benavides M, Herruzo I, Delgado MD, Del Valle A, Falkov A, Schucht P, Arana E, Pérez-Romasanta L, Pérez-García VM.</p> <p>Glioblastoma: does the pre-treatment geometry matter? A postcontrast T1 MRI-based study.</p> <p>Eur Radiol. 2017 Mar;27(3):1096-1104.</p>
	<p>Ulkatan S, Jaramillo AM, Téllez MJ, Kim J, Deletis V, Seidel K.</p> <p>Incidence of intraoperative seizures during motor evoked potential monitoring in a large cohort of patients undergoing different surgical procedures.</p> <p>J Neurosurg. 2017 Apr;126(4):1296-1302.</p>
2016	<p>Porz N, Habegger S, Meier R, Verma R, Jilch A, Fichtner J, Knecht U, Radina C, Schucht P, Beck J, Raabe A, Slotboom J, Reyes M, Wiest R.</p> <p>Fully Automated Enhanced Tumor Compartmentalization: Man vs. Machine Reloaded.</p> <p>PLoS One. 2016 Nov 2;11(11):e0165302.</p>
	<p>Fiechter M, Hwer E, Knecht U, Wiest R, Beck J, Raabe A, Oertel MF.</p> <p>Adult anaplastic pilocytic astrocytoma - a diagnostic challenge? A case series and literature review.</p> <p>Clin Neurol Neurosurg. 2016 Aug;147:98-104.</p>
2015	<p>Nowacki A, Seidel K, Schucht P, Schindler K, Abela E, Heinemann D, Gutbrod K, Wiest R, Raabe A, Pollo C.</p> <p>Induction of fear by intraoperative stimulation during awake craniotomy: case presentation and systematic review of the literature.</p> <p>World Neurosurg. 2015 Aug;84(2):470-4.</p>

	<p>Stieglitz LH, Raabe A, Beck J. Simple Accuracy Enhancing Techniques in Neuronavigation. World Neurosurg. 2015 Aug;84(2):580-4.</p>
	<p>Schucht P, Beck J, Seidel K, Raabe A. Extending resection and preserving function: modern concepts of glioma surgery. Swiss Med Wkly. 2015 Feb 4;145:w14082.</p>
	<p>Pérez-García VM, Bogdanska M, Martínez-González A, Belmonte-Beitia J, Schucht P, Pérez-Romasanta LA. Delay effects in the response of low-grade gliomas to radiotherapy: a mathematical model and its therapeutical implications. Math Med Biol. 2015 Sep;32(3):307-29.</p>
2014	<p>Schucht P, Seidel K, Beck J, Murek M, Jilch A, Wiest R, Fung C, Raabe A. Intraoperative monopolar mapping during 5-ALA-guided resections of glioblastomas adjacent to motor eloquent areas: evaluation of resection rates and neurological outcome. Neurosurg Focus. 2014 Dec;37(6):E16.</p>
	<p>Stummer W, Rodrigues F, Schucht P, Preuss M, Wiewrodt D, Nestler U, Stein M, Artero JM, Platania N, Skjøth-Rasmussen J, Della Puppa A, Caird J, Cortnum S, Eljamel S, Ewald C, González-García L, Martin AJ, Melada A, Peraud A, Brentrup A, Santarius T, Steiner HH; European ALA Pediatric Brain Tumor Study Group. Predicting the "usefulness" of 5-ALA-derived tumor fluorescence for fluorescence-guided resections in pediatric brain tumors: a European survey. Acta Neurochir (Wien). 2014 Dec;156(12):2315-24.</p>
	<p>Porz N, Bauer S, Pica A, Schucht P, Beck J, Verma RK, Slotboom J, Reyes M, Wiest R. Multi-modal glioblastoma segmentation: man versus machine. PLoS One. 2014 May 7;9(5):e96873.</p>

	<p>Schucht P, Seidel K, Murek M, Stieglitz LH, Urwyler N, Wiest R, Steinlin M, Leibundgut K, Raabe A, Beck J.</p> <p>Low-threshold monopolar motor mapping for resection of lesions in motor eloquent areas in children and adolescents.</p> <p>J Neurosurg Pediatr. 2014 May;13(5):572-8.</p>
	<p>Raabe A, Beck J, Schucht P, Seidel K.</p> <p>Continuous dynamic mapping of the corticospinal tract during surgery of motor eloquent brain tumors: evaluation of a new method.</p> <p>J Neurosurg. 2014 May;120(5):1015-24.</p>
	<p>Schucht P, Knittel S, Slotboom J, Seidel K, Murek M, Jilch A, Raabe A, Beck J.</p> <p>5-ALA complete resections go beyond MR contrast enhancement: shift corrected volumetric analysis of the extent of resection in surgery for glioblastoma.</p> <p>Acta Neurochir (Wien). 2014 Feb;156(2):305-12; discussion 312.</p>
	<p>Raabe A, Beck J, Schucht P, Seidel K.</p> <p>Continuous dynamic mapping of the corticospinal tract during surgery of motor eloquent brain tumors: a prospective study.</p> <p>Neurosurgery. 2014 Dec;37(6):E16.</p>
2013	<p>Schucht P, Murek M, Jilch A, Seidel K, Hewer E, Wiest R, Raabe A, Beck J.</p> <p>Early re-do surgery for glioblastoma is a feasible and safe strategy to achieve complete resection of enhancing tumor.</p> <p>PLoS One. 2013 Nov 13;8(11):e79846.</p>
	<p>Schucht P, Ghareeb F, Duffau H.</p> <p>Surgery for low-grade glioma infiltrating the central cerebral region: location as a predictive factor for neurological deficit, epileptological outcome, and quality of life.</p> <p>J Neurosurg. 2013 Aug;119(2):318-23.</p>
	<p>Leu S, von Felten S, Frank S, Vassella E, Vajtai I, Taylor E, Schulz M, Hutter G, Hench J, Schucht P, Boulay JL, Mariani L.</p> <p>IDH/MGMT-driven molecular classification of low-grade glioma is a strong predictor for long-term survival.</p> <p>Neuro Oncol. 2013 Apr;15(4):469-79.</p>

	<p>Seidel K, Beck J, Stieglitz L, Schucht P, Raabe A.</p> <p>The warning-sign hierarchy between quantitative subcortical motor mapping and continuous motor evoked potential monitoring during resection of supratentorial brain tumors.</p> <p>J Neurosurg. 2013 Feb;118(2):287-96.</p>
	<p>Schucht P, Moritz-Gasser S, Herbet G, Raabe A, Duffau H.</p> <p>Subcortical electrostimulation to identify network subserving motor control.</p> <p>Hum Brain Mapp. 2013 Nov;34(11):3023-30.</p>
2012	<p>Schucht P, Beck J, Abu-Isa J, Andereggen L, Murek M, Seidel K, Stieglitz L, Raabe A.</p> <p>Gross total resection rates in contemporary glioblastoma surgery: results of an institutional protocol combining 5-aminolevulinic acid intraoperative fluorescence imaging and brain mapping.</p> <p>Neurosurgery. 2012 Nov;71(5):927-35; discussion 935-6.</p>
	<p>Seidel K, Beck J, Stieglitz L, Schucht P, Raabe A.</p> <p>Low-threshold monopolar motor mapping for resection of primary motor cortex tumors.</p> <p>Neurosurgery. 2012 Sep;71(1 Suppl Operative):104-14; discussion 114-5.</p>
	<p>Stieglitz LH, Seidel K, Wiest R, Beck J, Raabe A.</p> <p>Localization of primary language areas by arcuate fascicle fiber tracking.</p> <p>Neurosurgery. 2012 Jan;70(1):56-64; discussion 64-5.</p>
2011	<p>Stieglitz LH, Lüdemann WO, Giordano M, Raabe A, Fahlbusch R, Samii M.</p> <p>Optic radiation fiber tracking using anteriorly angulated diffusion tensor imaging: a tested algorithm for quick application.</p> <p>Neurosurgery. 2011 May;68(5):1239-51.</p>
2009	<p>Raabe A, Van De Ville D, Leutenegger M, Szelényi A, Hattingen E, Gerlach R, Seifert V, Hauger C, Lopez A, Leitgeb R, Unser M, Martin-Williams EJ, Lasser T.</p> <p>Laser Doppler imaging for intraoperative human brain mapping.</p> <p>Neuroimage. 2009 Feb 15;44(4):1284-9.</p>