

## Publikationsverzeichnis – PD Dr. med. Daniela Becker

### Originalarbeiten

<b>Erst-/Ko - Autorschaften</b>				
#	Autoren	Titel	Zitation (incl. Seitenzahl)	Impact Factor (IF)
1.	Becker D, Lenga P, Teuber J, Scherer M, Neher P, Jungk C, Jesser J, Pflüger I, Bruckner T, Bendszus M, Meier-Hein K, Unterberg A.	Prediction of visual field deficits using q-ball high resolution fiber tractography of the optic radiation for adjacently located intracerebral lesions	In preparation	
2.	Peretzke R, Maier-Hein K, Becker D, Saikat R, Kirchhoff Y, Bohn J, Neher P.	Semi-automatic white matter tract classification with active learning	Under Review. Medical Image Computing and Computer-Assisted Intervention 2023	
3.	Lenga P, Scherer M, Neher P, Jungk C, Jesser J, Pflüger I, Bendszus M, Maier-Hein K, Unterberg A, Becker D.	Tensor- and High Resolution Fiber Tractography for the delineation of the optic radiation and corticospinal tract in the proximity of intracerebral lesions: A reproducibility and repeatability study	Accepted. 02/2023. Acta neurochirurgica.	2.816
4.	Moritz Scherer; Paul Zerweck; Daniela Becker; Lars Kihm; Jessica Jesser; Christopher Beynon; Andreas Unterberg	The value of intraoperative MRI in functional pituitary adenoma resection – A consecutive single center series of 114 Cases	Accepted. Neurosurgical Review. 05/22	3.042

5.	Becker D, Scherer M, Neher P, Jungk C, Jesser J, Pflüger I, Bruckner T, Bendszus M, Maier-Hein K, Unterberg A.	Comparison of diffusion signal models for fiber tractography in eloquent glioma surgery – determination of accuracy under awake craniotomy conditions	World Neurosurgery. Accepted 10/21	1.829
6.	Becker D, Scherer M, Neher P, Jungk C, Jesser J, Pflüger I, Bruckner T, Bendszus M, Maier-Hein K, Unterberg A.	Going beyond DTI-tractography in eloquent glioma surgery - High Resolution Fiber Tractography: Q-ball or Constrained Spherical Deconvolution?	World Neurosurgery. Accepted 10/2019	1.723
7.	Becker D, Scherer M, Neher P, Jungk C, Jesser J, Tursunova I, Bendszus M, Maier-Hein K, Unterberg A	Q-ball - High Resolution Fiber Tractography of Language Associated Tracts – Quantitative Evaluation of Applicability for Glioma Resections	Journal of Neurosurgical Sciences. Accepted 10/2019	1.883
8.	Kuhnt D, Bauer MH, Sommer J, Merhof D, Nimsky C	Optic radiation fiber tractography in glioma patients based on high angular resolution diffusion imaging with compressed sensing compared with diffusion tensor imaging - initial experience	PLoS One. 2013 Jul 26;8(7):e70973. doi: 10.1371/journal.pone. 0070973. Print 2013	4.351
9.	Kuhnt D, Bauer MH, Egger J, Richter M, Kapur T, Sommer J, Merhof D, Nimsky C	Fiber tractography based on diffusion tensor imaging compared with high-angular-resolution diffusion imaging with compressed sensing: initial experience	Neurosurgery. 2013 Jan;72 Suppl 1:165-75. doi: 10.1227/NEU.0b013e318270d9fb	2.862
10.	Kuhnt D, Bauer MH, Becker A, Merhof D, Zolal A, Richter M,	Intraoperative visualization of fiber tracking based	Neurosurgery. 2012 Apr;70(4):911-9; discussion 919-20. doi: 10.1227/NEU.0b013e318237a807	2.862

	Grummich P, Ganslandt O, Buchfelder M, Nimsky C	reconstruction of language pathways in glioma surgery		
11.	Kuhnt D, Becker A, Ganslandt O, Bauer M, Buchfelder M, Nimsky C	Correlation of the extent of tumor volume resection and patient survival in surgery of glioblastoma multiforme with high-field intraoperative MRI guidance.	Neuro Oncol. 2011 Dec;13(12):1339-48. doi: 10.1093/neuonc/nor133. Epub 2011 Sep 12	6.180
12.	Kuhnt D, Ganslandt O, Schlaffer SM, Buchfelder M, Nimsky C.	Quantification of glioma removal by intraoperative high-field magnetic resonance imaging: an update	Neurosurgery. 2011 Oct;69(4):852-62; discussion 862-3. doi: 10.1227/NEU.0b013e318225ea6b. Erratum in: Neurosurgery. 2013 Nov;73(5):E913	2.862
13.	Bauer MH, Kuhnt D, Barbieri S, Klein J, Becker A, Freisleben B, Hahn HK, Nimsky C	Reconstruction of white matter tracts via repeated deterministic streamline tracking--initial experience	PLoS One. 2013 May 6;8(5):e63082. doi: 10.1371/journal.pone.0063082. Print 2013	4.351
14.	Nimsky C, Kuhnt D, Ganslandt O, Buchfelder M	Multimodal navigation integrated with imaging	Acta Neurochir Suppl. 2011;109:207-14. doi: 10.1007/978-3-211-99651-5_32	1.472
15.	Bauer MH, Barbieri S, Klein J, Egger J, Kuhnt D, Freisleben B, Hahn HK, Nimsky C	Boundary estimation of fiber bundles derived from diffusion tensor images	Int J Comput Assist Radiol Surg. 2011 Jan;6(1):1-11. doi: 10.1007/s11548-010-0423-x. Epub 2010 Jun 19	1.827
16.	Nimsky C, von Keller B, Schlaffer S, Kuhnt D, Weigel D, Ganslandt O, Buchfelder M	Updating navigation with intraoperative image data	Top Magn Reson Imaging. 2009 Jan;19(4):197-204. doi: 10.1097/RMR.0b013e31819574ad	2.42
17.	Becker A, Kuhnt D, Bakowsky U, Nimsky C	Contrast-enhanced ultrasound ventriculography	Neurosurgery. 2012 Dec;71(2 Suppl Operative):ons296-301; discussion ons301. doi: 10.1227/NEU.0b013e31826a8a97	2.862

18.	Hofer MJ, Riehmer V, Kuhnt D, Braun V, Nimsky C, Weber RG, Sommer C, Pagenstecher A	Genomic profiling to assess the clonal relationship between histologically distinct intracranial tumours	Neuropathol Appl Neurobiol. 2012 Aug;38(5):500-4. doi: 10.1111/j.1365-2990.2012.01280.x	3.495
19.	Becker A, Marxer E, Brüssler J, Hoormann AS, Kuhnt D, Bakowsky U, Nimsky C	Ultrasound active nanoscaled lipid formulations for thrombus lysis	Eur J Pharm Biopharm. 2011 Apr;77(3):424-9. doi: 10.1016/j.ejpb.2010.12.003. Epub 2010 Dec 17	3.151
20.	Huttner HB, Janich P, Köhrmann M, Jászai J, Siebzehnruhl F, Blümcke I, Suttorp M, Gahr M, Kuhnt D, Nimsky C, Krex D, Schackert G, Löwenbrück K, Reichmann H, Jüttler E, Hacke W, Schellinger PD, Schwab S, Wilsch-Bräuninger M, Marzesco AM, Corbeil D	The stem cell marker prominin-1/CD133 on membrane particles in human cerebrospinal fluid offers novel approaches for studying central nervous system disease	Stem Cells. 2008 Mar;26(3):698-705. Epub 2007 Dec 20	7.747

Reviews (R), Short Reports (SR), Fallberichte (FB), Sonstige (S)

<b>Erst - Autorschaften</b>					
#	Autoren	Titel	Zitation (incl. Seitenzahl)	IF	Typ
1.	Kuhnt D, Bauer MH, Ganslandt O, Nimsky C	Functional imaging: where do we go from here?	J Neurosurg Sci. 2013 Mar;57(1):1-11	1.883	R
2.	Kuhnt D, Bauer MH, Nimsky C	Brain shift compensation and neurosurgical image fusion using intraoperative MRI: current status and future challenges	Crit Rev Biomed Eng. 2012;40(3):175-85	0.32	R

3.	Kuhnt D, Ganslandt O, Buchfelder M, Nimsky Ch	Multimodal navigation in glioma surgery	Current Medical Imaging Reviews. 2010; 4,6; (259 – 265). doi 10.2174/157340510793205512.	0.647	R
4.	Kuhnt D, Becker A, Benes L, Nimsky C	Reversible cortical blindness and internuclear ophthalmoplegia after neurosurgical operation: case report and review of the literature	J Neurol Surg A Cent Eur Neurosurg. 2013 Dec;74 Suppl 1:e128-32. doi: 10.1055/s-0032-1327448. Epub 2012 Oct 5	1.06	FB
5.	Kuhnt D, Coras R, Eyupoglu IY, Struffert T, Schellinger PD, Buchfelder M, Nimsky C	Herpes simplex encephalitis after neurosurgical operations: report of 2 cases and review of the literature	J Neurol Surg A Cent Eur Neurosurg. 2012 Mar;73(2):116-22. doi: 10.1055/s-0032-1309062. Epub 2012 Mar 30	1.06	FB

## Buchbeiträge und Patente

<b>Erst - Autorschaften</b>			
#	Autoren	Titel	Zitation (incl. Seitenzahl)
1.	Kuhnt D, Bauer M, Nimsky Ch	Multimodality Navigation in Neurosurgery	Intraoperative Imaging and Image Guided Therapy. Jolesz FA. DOI 10.1007/978-1-4614-7657-3_36. Springer 2014. 497-506.
2.	Kuhnt D, Bauer M, Gansland O, Nimsky Ch	MRI Guidance of Intracranial Tumor Resection	Medical Radiology. Diagnostic Imaging. Springer Verlag DOI 10.1007/174_2011. Chapter 393.
3.	Kuhnt D, Bauer M, Nimsky Ch	Präoperative fMRT Diagnostik, Neuronavigation	Funktionelle MRT in Psychiatrie und Neurologie. 2. Aufl. Schneider F, Fink G. Springer 2012. 258-264.