

Ingmar Blümcke, M.D.
Scientific Publications
ORCID: 0000-0001-8676-0788

h-index = 76
(9/2022 Clarivate Web of Science)

2022

1. Ali R, Gollwitzer S, Reindl C, Hamer H, Coras R, **Blümcke I**, Buchfelder M, Hastreiter P, Rampp S. Phase-amplitude coupling measures for determination of the epileptic network: A methodological comparison. *J Neurosci Methods*. 2022 Mar 15;370:109484. doi: 10.1016/j.jneumeth.2022.109484. Epub 2022 Jan 20. PMID: 35065957
2. **Blümcke I**, Biesel E, Bedenlier S, Händel M, Wilmshurst J, Mehndiratta MM, Yacubian EM, Cendes F, Arzimanoglou A, Beniczky S, Wolf P, Giavasi C, Baxendale S, Shisler P, Wiebe S. A structured, blended learning program towards proficiency in epileptology: the launch of the ILAE Academy Level 2 Program. *Epileptic Disord*. 2022 Oct 1;24(5):1-14. doi: 10.1684/epd.2022.1462. PMID: 35801962
3. Brandner S, Schroeter S, Çalışkan G, Salar S, Kobow K, Coras R, **Blümcke I**, Hamer H, Schwarz M, Buchfelder M, Maslarova A. Glucocorticoid modulation of synaptic plasticity in the human temporal cortex of epilepsy patients: Does chronic stress contribute to memory impairment? *Epilepsia*. 2022 Jan;63(1):209-221. doi: 10.1111/epi.17107. Epub 2021 Oct 23. PMID: 34687218
4. Choi JY, Hu S, Su TY, Murakami H, Tang Y, **Blümcke I**, Najm I, Sakaie K, Jones S, Griswold M, Wang ZI, Ma D. Normative quantitative relaxation atlases for characterization of cortical regions using magnetic resonance fingerprinting. *Cereb Cortex*. 2022 Aug 10:bhac292. doi: 10.1093/cercor/bhac292. Online ahead of print. PMID: 35945683
5. Choi JY, Krishnan B, Hu S, Martinez D, Tang Y, Wang X, Sakaie K, Jones S, Murakami H, **Blümcke I**, Najm I, Ma D, Wang ZI. Using magnetic resonance fingerprinting to characterize periventricular nodular heterotopias in pharmacoresistant epilepsy. *Epilepsia*. 2022 Mar 28. doi: 10.1111/epi.17191. Online ahead of print. PMID: 35343593
6. Gruber VE, Luinenburg MJ, Colleselli K, Endmayr V, Anink JJ, Zimmer TS, Jansen F, Gosselaar P, Coras R, Scholl T, **Blumcke I**, Pimentel J, Hainfellner JA, Höftberger R, Rössler K, Feucht M, van Scheppingen J, Aronica E, Mühlebner A. Increased expression of complement components in tuberous sclerosis complex and focal cortical dysplasia type 2B brain lesions. *Epilepsia*. 2022 Feb;63(2):364-374. doi: 10.1111/epi.17139. Epub 2021 Dec 14. PMID: 34904712
7. Hoffmann L, **Blümcke I**. Neuropathology and epilepsy surgery. *Curr Opin Neurol*. 2022 Apr 1;35(2):202-207. doi: 10.1097/WCO.0000000000001030. PMID: 35067500

8. Holthausen H, Coras R, Tang Y, Bai L, Wang I, Pieper T, Kudernatsch M, Hartlieb T, Staudt M, Winkler P, Hofer W, Jabari S, Kobow K, **Blümcke I**. Multilobar unilateral hypoplasia with emphasis on the posterior quadrant and severe epilepsy in children with FCD ILAE Type 1A. *Epilepsia*. 2022 Jan;63(1):42-60. doi: 10.1111/epi.17114. Epub 2021 Nov 6. PMID: 34741301
9. Jabari S, Kobow K, Pieper T, Hartlieb T, Kudernatsch M, Polster T, Bien CG, Kalbhenn T, Simon M, Hamer H, Rössler K, Feucht M, Mühlebner A, Najm I, Peixoto-Santos JE, Gil-Nagel A, Delgado RT, Aledo-Serrano A, Hou Y, Coras R, von Deimling A, **Blümcke I**. DNA methylation-based classification of malformations of cortical development in the human brain. *Acta Neuropathol*. 2022 Jan;143(1):93-104. doi: 10.1007/s00401-021-02386-0. Epub 2021 Nov 19. PMID: 34797422
10. López-Rivera JA, Smuk V, Leu C, Nasr G, Vegh D, Stefanski A, Pérez-Palma E, Busch R, Jehi L, Najm I, **Blümcke I**, Lal D. Incidence and prevalence of major epilepsy-associated brain lesions. *Epilepsy Behav Rep*. 2022 Feb 11;18:100527. doi: 10.1016/j.ebr.2022.100527. eCollection 2022. PMID: 35243289
11. Mennecke A, Khakzar KM, German A, Herz K, Fabian MS, Liebert A, **Blümcke I**, Kasper BS, Nagel AM, Laun FB, Schmidt M, Winkler J, Dörfler A, Zaiss M. 7 tricks for 7 T CEST: Improving the reproducibility of multipool evaluation provides insights into the effects of age and the early stages of Parkinson's disease. *NMR Biomed*. 2022 Feb 22:e4717. doi: 10.1002/nbm.4717. Online ahead of print. PMID: 35194865
12. Miyata H, Kuwashige H, Hori T, Kubota Y, Pieper T, Coras R, **Blümcke I**, Yoshida Y. Variable histopathology features of neuronal dyslamination in the cerebral neocortex adjacent to epilepsy-associated vascular malformations suggest complex pathogenesis of focal cortical dysplasia ILAE type IIIc. *Brain Pathol*. 2022 Jan 9:e13052. doi: 10.1111/bpa.13052. Online ahead of print. PMID: 35001442
13. Najm I, Lal D, Alonso Vanegas M, Cendes F, Lopes-Cendes I, Palmi A, Paglioli E, Sarnat HB, Walsh CA, Wiebe S, Aronica E, Baulac S, Coras R, Kobow K, Cross JH, Garbelli R, Holthausen H, Rössler K, Thom M, El-Osta A, Lee JH, Miyata H, Guerrini R, Piao YS, Zhou D, **Blümcke I**. The ILAE consensus classification of focal cortical dysplasia: An update proposed by an ad hoc task force of the ILAE diagnostic methods commission. *Epilepsia*. 2022 Aug;63(8):1899-1919. doi: 10.1111/epi.17301. Epub 2022 Jun 15. PMID: 35706131
14. Reinhardt A, Pfister K, Schrimpf D, Stichel D, Sahm F, Reuss DE, Capper D, Wefers AK, Ebrahimi A, Sill M, Felsberg J, Reifenberger G, Becker A, Prinz M, Staszewski O, Hartmann C, Schittenhelm J, Gramatzki D, Weller M, Olar A, Rushing EJ, Bergmann M, Farrell MA, **Blümcke I**, Coras R, Beckervordersandforth J, Kim SH, Rogerio F, Dimova PS, Niehusmann P, Unterberg A, Platten M, Pfister SM, Wick W, Herold-Mende C, von Deimling A. Anaplastic ganglioglioma-A diagnosis comprising several distinct tumour types. *Neuropathol Appl Neurobiol*. 2022 Aug 17:e12847. doi: 10.1111/nan.12847. Online ahead of print. PMID: 35977725
15. Singh G, Braga P, Carrizosa J, Prevos-Morgant M, Mehndiratta MM, Shisler P, Triki C, Wiebe S, Wilmshurst J, **Blümcke I**. An epilepsy curriculum for primary health care providers: a report from the Education Council of the International League Against Epilepsy. *Epileptic Disord*. 2022 Dec 1;24(6):1-11. doi: 10.1684/epd.2022.1479. PMID: 35993831

16. Tang Y, **Blümcke I**, Su TY, Choi JY, Krishnan B, Murakami H, Alexopoulos AV, Najm IM, Jones SE, Wang ZI. Black Line Sign in Focal Cortical Dysplasia IIB: A 7T MRI and Electroclinicopathologic Study. *Neurology*. 2022 Aug 9;99(6):e616-e626. doi: 10.1212/WNL.000000000200702. Epub 2022 May 16. PMID: 35940890
17. Toledano R, Martínez-Alvarez R, Jiménez-Huete A, García-Morales I, Aledo-Serrano Á, Cabrera W, Rey G, Campo P, Gómez-Angulo JC, **Blumcke I**, Álvarez-Linera J, Del Pozo JM, Gil-Nagel A. Stereoelectroencephalography in the preoperative assessment of patients with refractory focal epilepsy: experience at an epilepsy centre. *Neurologia (Engl Ed)*. 2022 Jun;37(5):334-345. doi: 10.1016/j.nrleng.2019.05.006. Epub 2021 May 25. PMID: 35672120
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19. Wang Y, Wang L, **Blümcke I**, Zhang W, Fu Y, Shan Y, Piao Y, Zhao G. Integrated genotype-phenotype analysis of long-term epilepsy-associated ganglioglioma. *Brain Pathol*. 2022 Jan;32(1):e13011. doi: 10.1111/bpa.13011. Epub 2021 Aug 5. PMID: 34355449
20. Weisshardt I, Vlaev I, Cross JH, **Blümcke I**. Taking the Learner on a Journey - An analysis of an Integrated Virtual CME Program in Epilepsy during the COVID-19 Pandemic. *J Eur CME*. 2021 Dec 10;10(1):2015190. doi: 10.1080/21614083.2021.2015190. eCollection 2021. PMID: 34912591
21. Wirries A, Geiger F, Hammad A, Bäumllein M, Schmeller JN, **Blümcke I**, Jabari S. AI Prediction of Neuropathic Pain after Lumbar Disc Herniation-Machine Learning Reveals Influencing Factors. *Biomedicines*. 2022 Jun 4;10(6):1319. doi: 10.3390/biomedicines10061319. PMID: 35740341

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23. **Blümcke I**, Coras R, Busch RM, Morita-Sherman M, Lal D, Prayson R, Cendes F, Lopes-Cendes I, Rogerio F, Almeida VS, Rocha CS, Sim NS, Lee JH, Kim SH, Baulac S, Baldassari S, Adle-Biassette H, Walsh CA, Bizzotto S, Doan RN, Morillo KS, Aronica E, Mühlebner A, Becker A, Cienfuegos J, Garbelli R, Giannini C, Honavar M, Jacques TS, Thom M, Mahadevan A, Miyata H, Niehusmann P, Sarnat HB, Söylemezoglu F, Najm I. Toward a better definition of focal cortical dysplasia: An iterative histopathological and genetic agreement trial. *Epilepsia*. 2021 Jun;62(6):1416-1428. doi: 10.1111/epi.16899. Epub 2021 May 5. PMID: 33949696
24. Bongaarts A, Mijnsbergen C, Anink JJ, Jansen FE, Spliet WGM, den Dunnen WFA, Coras R, **Blümcke I**, Paulus W, Gruber VE, Scholl T, Hainfellner JA, Feucht M, Kotulska K, Jozwiak S, Grajkowska W, Buccoliero AM, Caporalini C, Giordano F, Genitori L, Söylemezoğlu F, Pimentel J, Jones DTW, Scicluna BP, Schouten-van Meeteren AYN, Mühlebner A, Mills JD, Aronica E. Distinct DNA Methylation Patterns of Subependymal Giant Cell Astrocytomas in

- Tuberous Sclerosis Complex. *Cell Mol Neurobiol*. 2021 Oct 28. doi: 10.1007/s10571-021-01157-5. Online ahead of print. PMID: 34709498
25. Peixoto-Santos JE, **Blumcke I**. Neuropathology of the 21th century for the Latin American epilepsy community. *Seizure*. 2021 Feb 8:S1059-1311(21)00036-4. doi: 10.1016/j.seizure.2021.02.003. Online ahead of print. PMID: 33602567
 26. Rampp S, Rössler K, Hamer H, Illek M, Buchfelder M, Doerfler A, Pieper T, Hartlieb T, Kudernatsch M, Koelble K, Peixoto-Santos JE, **Blümcke I**, Coras R. Dysmorphic neurons as cellular source for phase-amplitude coupling in Focal Cortical Dysplasia Type II. *Clin Neurophysiol*. 2021 Mar;132(3):782-792. doi: 10.1016/j.clinph.2021.01.004. Epub 2021 Jan 20. PMID: 33571886
 27. Bonduelle T, Hartlieb T, Baldassari S, Sim NS, Kim SH, Kang HC, Kobow K, Coras R, Chipaux M, Dorfmueller G, Adle-Biassette H, Aronica E, Lee JH, **Blumcke I**, Baulac S. Frequent SLC35A2 brain mosaicism in mild malformation of cortical development with oligodendroglial hyperplasia in epilepsy (MOGHE). *Acta Neuropathol Commun*. 2021 Jan 6;9(1):3. doi: 10.1186/s40478-020-01085-3. PMID: 33407896
 28. Shawarba J, Kaspar B, Rampp S, Winter F, Coras R, **Blumcke I**, Hamer H, Buchfelder M, Roessler K. Advantages of magnetoencephalography, neuronavigation and intraoperative MRI in epilepsy surgery re-operations. *Neurol Res*. 2021 Jan 5:1-6. doi: 10.1080/01616412.2020.1866384. Online ahead of print. PMID: 33402062
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 31. Montesinos-Rongen M, Terrao M, May C, Marcus K, **Blümcke I**, Hellmich M, Küppers R, Brunn A, Deckert M. The process of somatic hypermutation increases polyreactivity for central nervous system antigens in primary central nervous system lymphoma. *Haematologica* 2021 Mar 1;106(3):708-717. doi: 10.3324/haematol.2019.242701. PMID: 32193251
 32. Jablonski J, Hoffmann L, **Blümcke I**, Fejtová A, Uebe S, Ekici AB, Gnatkovsky V, Kobow K. Experimental Epileptogenesis in a Cell Culture Model of Primary Neurons from Rat Brain: A Temporal Multi-Scale Study. *Cells*. 2021 Nov 3;10(11):3004. doi: 10.3390/cells10113004. PMID: 34831225
 33. Fitzgerald Z, Morita-Sherman M, Hogue O, Joseph B, Alvim MKM, Yasuda CL, Vegh D, Nair D, Burgess R, Bingaman W, Najm I, Kattan MW, **Blumcke I**, Worrell G, Brinkmann BH, Cendes F, Jehi L. Improving the prediction of epilepsy surgery outcomes using basic scalp EEG findings. *Epilepsia*. 2021 Oct;62(10):2439-2450. doi: 10.1111/epi.17024. Epub 2021 Aug 2. PMID: 34338324

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35. Morita-Sherman M, Li M, Joseph B, Yasuda C, Vegh D, De Campos BM, Alvim MKM, Louis S, Bingaman W, Najm I, Jones S, Wang X, **Blümcke I**, Brinkmann BH, Worrell G, Cendes F, Jehi L. Incorporation of quantitative MRI in a model to predict temporal lobe epilepsy surgery outcome. *Brain Commun*. 2021 Jul 16;3(3):fcab164. doi: 10.1093/braincomms/fcab164. eCollection 2021. PMID: 34396113

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37. Bongaarts A, van Scheppingen J, Korotkov A, Mijnsbergen C, Anink JJ, Jansen FE, Spliet WGM, den Dunnen WFA, Gruber VE, Scholl T, Samueli S, Hainfellner JA, Feucht M, Kotulska K, Jozwiak S, Grajkowska W, Buccoliero AM, Caporalini C, Giordano F, Genitori L, Coras R, **Blümcke I**, Krsek P, Zamecnik J, Meijer L, Scicluna BP, Schouten-van Meeteren AYN, Mühlebner A, Mills JD, Aronica E. The coding and non-coding transcriptional landscape of subependymal giant cell astrocytomas. *Brain*. 2020 Jan 1;143(1):131-149. doi: 10.1093/brain/awz370. PMID: 31834371
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