

# Publikationsverzeichnis

## Original-Arbeiten

1. **Kinfe TM**, Buchfelder M, Hurlemann R, Muhammad S, Yearwood TL. Leptin and associated mediators of immunometabolic signaling: Novel molecular outcome measures for neurostimulation to treat chronic pain. *Int J mol Sci* 2019;20(19). **Impact Factor: 4.2**
2. Jan Lieberz, Dirk Scheele, Franny B Spengler, Tatjana Matheisen, Lia Schneider, Birgit Stoffel-Wagner, **Thomas M. Kinfe**, René Hurlemann. Kinetics of oxytocin effects on amygdala and striatal reactivity vary between women and men. *Neuropsychopharmacology* 2019; doi: 10.1038/s41386-019-0582-6. **Impact Factor: 7.2**
3. Unilateral L4-dorsal root ganglion stimulation evokes pain relief in chronic neuropathic postsurgical knee pain and changes of inflammatory markers: Part II subgroup transcriptomic analysis. **Thomas M. Kinfe**, Krishnan V. Chakravarthy, Timothy Deer, Jeffery M. Kramer, Thomas L. Yearwood, Rene Hurlemann, Maria Asif, Muhammad Sajid Hussain, Susanne Motameny, Prerana Wagle PhD, Peter Nürnberg, Nadine Gravius, Sascha Gravius, Thomas Randau, MD, \*Shafqat R. Chaudhry, \*Sajjad Muhammad. *J Transl Med* 2019;17(1):205. doi: 10.1186/s12967-019-1952-x **Impact Factor: 4.2**
4. Saliva inter-ictal assay of peripheral circulating inflammatory mediators in migraine patients under adjunctive cervical non-invasive vagus nerve stimulation: The MOXY Study. Azize Boström, Shafqat R. Chaudhry, Ilana S. Lendvai, Sajjad Muhammad, Frigga Hönig, Dirk Scheele, Rene Hurlemann, **Thomas M. Kinfe**. *J Transl Med*; 2019;17(1):53. doi: 10.1186/s12967-019-1801-y. **Impact Factor: 4.2**
5. Inter-ictal assay of peripheral circulating inflammatory mediators in migraine patients under adjunctive cervical non-invasive vagus nerve stimulation: a proof-of-concept study. Chaudhry SR, Lendvai IS, Muhammad S, Westhofen P, Kruppenbacher J, Scheef L, Boecker H, Scheele D, Hurlemann R, **Kinfe TM**. *Brain Stimulation* 2019;12(3):643-651. **Impact Factor: 6.9**
6. Temporal profile of serum mitochondrial DNA (mtDNA) in patients with aneurysmal Subarachnoid Hemorrhage (aSAH). Shafqat Rasul Chaudhry, Stilla Frede, Gerald Seifert, Hartmut Vatter, **Thomas Mehari Kinfe**, Mika Niemelä, Dirk Dietrich, Alf Lamprecht and Sajjad Muhammad. *Mitochondrion* 2019;47:218-226. **Impact Factor: 3.3;**
7. Increased temporal discounting in social anxiety disorder normalizes after oxytocin treatment. René Hurlemann, Dirk Scheele, **Thomas M. Kinfe** Ruben Berger, Alexandra Philipsen, Marisol Voncken, Kim Kuypers, Koen Schruers. *Psychotherapy and Psychosomatics* 2019;88(1):55-57. **Impact Factor:13,1**
8. Selective L4 dorsal root ganglion stimulation evokes pain relief and changes of inflammatory markers: Part I profiling of saliva and serum molecular patterns. Nadine Gravius, Shafqat R. Chaudhry, Sajjad Muhammad, Azize Boström, Sascha Gravius, Thomas Randau, Dirk Scheele, Philipp Westhofen, Johannes

Kruppenbacher, Birgit Stoffel-Wagner, Christian Maier, Anna Weidlich, Thomas L. Yearwood, Krishnan V. Chakravarthy, Jeffery M. Kramer, Rene Hurlemann, **Thomas M. Kinfe**. *Neuromodulation* 2019 Jan;22(1):44-52. **Impact Factor:2,8**

9. LINAC Stereotactic Radiosurgery for Trigeminal Neuralgia - Retrospective Two-Institutional Examination of Treatment Outcomes. Ali Rashid; Bogdan Pinteau, **Thomas M. Kinfe**, Gunnar Surber, Klaus Hamm, Jan P. Boström. *Radiation Oncology Radiat Oncol.* 2018 Aug 22;13(1):153. doi: 10.1186/s13014-018-1102-2. **Impact Factor:2,86**
10. The impact of MRI Steady-State Sequences as an additional assessment modality in vestibular schwannoma patients after Stereotactic Radiotherapy or Radiosurgery. Julian P. Sauer, **Thomas M. Kinfe**, Bogdan Pinteau, Andreas Schafer, Jan P Boström. *Strahlenther Oncology Strahlenther Onkol.* 2018 Dec;194(12):1103-1113. doi: 10.1007/s00066-018-1317-z **Impact Factor:2,74**
11. Systemic HMGB1, a novel predictive biomarker for cerebral vasospasm in Subarachnoid Hemorrhage. Sajjad Muhammad, Shafqat Rasul Chaudhry, Agi Güresir, Birgit Stoffel Wagner, Rolf Fimmers, **Thomas Mehari Kinfe**, Dirk Dietrich, Alf Lamprecht, Hartmut Vatter, Erdem Güresir *Crit Care Med Crit Care Med.* 2018 Nov;46(11):e1023-e1028. **Impact Factor:7,05**
12. Oxytocin reduces a chemosensory-induced stress bias in social perception. Aylene Maier, Dirk Scheele, Franny B Spengler, Tugba Menba, Franziska Mohr, Onur Güntürkün, Birgit Stoffel-Wagner, **Thomas M. Kinfe**, Wolfgang Maier, Sahib S. Khalsa, M. and René Hurlemann. *Neuropsychopharmacology Neuropsychopharmacology.* 2019 Jan;44(2):281-288. **Impact Factor:6,4**
13. Elevated systemic IL-6 levels in patients with aneurysmal subarachnoid hemorrhage is an unspecific marker for post-SAH complications Shafqat Rasul Chaudhry, Birgit Stoffel-Wagner, **Thomas Mehari Kinfe**, Hartmut Vatter, Dirk Dietrich, Alf Lamprecht, Sajjad Muhammad. *Int J of Mol Sci Int J Mol Sci.* 2017 Dec 1;18(12). pii: E2580. doi: 10.3390/ijms18122580. **Impact Factor:4,2**
14. Changes of metabolic disorders associated peripheral cytokine/adipokine traffic in non-obese chronic back patients responsive to burst spinal cord stimulation Sajjad Muhammad, Shafqat. R. Chaudhry, Thomas L. Yearwood, Joachim K. Krauss, **Kinfe TM**. *Neuromodulation* 2017 Oct 24. doi: 10.1111/ner.12708. **Impact Factor:2,8**
15. Aneurysmal Subarachnoid Hemorrhage lead to systemic upregulation of Il-23/Il-17 inflammatory axis. Muhammad S, Chaudhry SR, Güresir E, Vatter H, **Kinfe TM**, Dietrich D, Lamprecht A. *Cytokine* 2017;97:96-103. **Impact Factor:3,4**
16. Early motor function after local treatment of brain metastases in the region of the motor cortex either with stereotactic radiotherapy or radiosurgery, or with electrophysiologically controlled microsurgical resection: a retrospective observational study of two consecutive cohorts. Bogdan Pinteau, Brigitta G. Baumert, **Thomas M. Kinfe**, Konstantinos Gousias, Yaroslav Parpaley, Jan P. Boström. *Strahlenther Oncology* 2017;12(1):177. **Impact Factor:2,735**

17. High frequency (10 kHz) or burst spinal cord stimulation (SCS) in failed back surgery syndrome patients (FBSS) with predominant back pain: one year comparative data. Muhammad S, Chaudhry SR, Roeske S, **Kinfe TM**. *Neuromodulation* 2017; 20(7):661-667. **Impact Factor:2,8**
18. Burst spinal cord stimulation increases peripheral anti-neuroinflammatory Interleukin 10 (IL-10) levels in Failed Back Surgery Syndrome patients with predominant back pain. **Kinfe TM**, S. Muhammad, C. Link, S. Roeske, S. R. Chaudhry, T. L. Yearwood. *Neuromodulation* 2017;20(4):322-330. **Impact Factor:2,8**
19. Extended Long-Term Effects of Cervical Vagal Nerve Stimulation on Headache Intensity/Frequency and Affective/Cognitive Headache Perception in Drug Resistant Complex-Partial Seizure Patients. Pintea B, Hampel K, Boström J, Surges R, Vatter H, Lendvai IS, **Kinfe TM**. *Neuromodulation* 2017;20(4):375-382. **Impact Factor:2,8**
20. Antidiabetic and antidyslipidemic effects of *Heliotropium strigosum* in rat models of type I and type II diabetes. Chaudhry SR, Akram A, Aslam N, Asif M, Wajid M, **Kinfe T**, Jabeen Q, Muhammad S. *Acta Pol Pharm*. 2016 Nov;73(6):1575-1586. **Impact Factor:0,614**
21. Decompressive craniectomy for stroke: early cranioplasty is a predictor for postoperative complications. Borger V, Schuss P, **Kinfe TM**, Vatter H, Güresir E. *World Neurosurgery* 2016;92:83-88. **Impact Factor:2,592**
22. Cervical non-invasive vagus nerve stimulation (nVNS) for preventive and acute treatment of episodic and chronic migraine and migraine-associated sleep disturbance: preliminary findings from a prospective observational cohort study **Kinfe TM**, Pintea B, Muhammad S, Zaremba S, Roeske S, Simon BJ, Vatter H. *J Headache Pain*. 2015;16:101. **Impact Factor:3,58**
23. High frequency (10 kHz) or burst spinal cord stimulation (SCS) in failed back surgery syndrome patients (FBSS) with predominant back pain: preliminary results from a prospective observational study. **Kinfe TM**, Pintea B, Link C, Roeske S, Güresir A, Güresir E, Vatter H. *Neuromodulation* 2016;19(3):268-75. **Impact Factor:2,8**
24. Percutaneous nerve field stimulation (PENS) of the occipital region as a possible predictor for occipital nerve stimulation (ONS) responsiveness in refractory headache disorders? A feasibility study. **Kinfe TM**, Pintea B, Roeske S, Güresir A, Güresir E, Vatter H. *Cephalalgia*. 2016;36(8):779-89 **Impact Factor:4,4**
25. Treatment of acromegaly patients with risk-adapted single or fractionated stereotactic high-precision radiotherapy: High local control and low toxicity in a pooled series. **Boström JP**, **Kinfe T**, Meyer A, Pintea B, Gerlach R, Surber G, Lammering G, Hamm K. *Strahlenther Onkol*. 2015;191(6):477-85. **Impact Factor:2,735**
26. Earlier and sustained response with incidental use of cardiovascular drugs among patients with low- to medium-grade meningiomas treated with radiosurgery (SRS)

or stereotactic radiotherapy (SRT). **Pintea B, Kinfe TM**, Baumert BG, Boström J. *Radiother Oncol.* 2014;111(3):446-50. **Impact Factor:4,328**

27. Paddle versus cylindrical leads for percutaneous implantation in spinal cord stimulation for failed back surgery syndrome: a single-center trial. **Kinfe TM**, Quack F, Wille C, Schu S, Vesper J. *J Neurol Surg A Cent Eur Neurosurg.* 2014;75(6):467-73. **Impact Factor:0,8**
28. Percutaneous implanted paddle lead for spinal cord stimulation: technical considerations and long-term follow-up. **Kinfe TM**, Schu S, Quack FJ, Wille C, Vesper J. *Neuromodulation* 2012;15(4):402-7. **Impact Factor:2,8**
29. Stereotactic versus endoscopic surgery in periventricular lesions. **Kinfe TM**, Capelle HH, Mirzayan MJ, Boschert J, Weigel R, Krauss JK. *Acta Neurochir (Wien).* 2011;153(3):517-26. **Impact Factor:1,881**
30. Impact of surgical treatment on tremor due to posterior fossa tumors. **Kinfe TM**, Capelle HH, Krauss JK. *J Neurosurg.* 2008;108(4):692-7. **Impact Factor:4,059**
31. Continuous perioperative apomorphine in deep brain stimulation surgery for Parkinson's disease. Slotty PJ, Wille C, **Kinfe TM**, Vesper J. *Br J Neurosurg.* 2014;28(3):378-82. **Impact Factor:1,051**
32. The impact of brain shift in deep brain stimulation surgery: observation and obviation. Slotty PJ, Kamp MA, Wille C, **Kinfe TM**, Steiger HJ, Vesper J. *Acta Neurochir (Wien).* 2012 ;154(11):2063-8; discussion 2068. **Impact Factor:1,881**
33. GPi-DBS may induce a hypokinetic gait disorder with freezing of gait in patients with dystonia. Schrader C, Capelle HH, **Kinfe TM**, Blahak C, Bätzner H, Lütjens G, Dressler D, Krauss JK. *Neurology.* 2011;77(5):483-8. **Impact Factor:8,32**
34. Micrographia induced by pallidal DBS for segmental dystonia: a subtle sign of hypokinesia? Blahak C, Capelle HH, Baezner H, **Kinfe TM**, Hennerici MG, Krauss JK. *J Neural Transm (Vienna).* 2011;118(4):549-53. **Impact Factor:2,39**
35. Battery lifetime in pallidal deep brain stimulation for dystonia. Blahak C, Capelle HH, Baezner H, **Kinfe TM**, Hennerici MG, Krauss JK. *Eur J Neurol.* 2011;18(6):872-5. **Impact Factor:3,988**
36. Deep brain stimulation for camptocormia in dystonia and Parkinson's disease. Capelle HH, Schrader C, Blahak C, Fogel W, **Kinfe TM**, Baezner H, Krauss JK. *J Neurol.* 2011;258(1):96-103. **Impact Factor:3,389**
37. Less is more: adaptation of voltage after battery replacement in deep brain stimulation for dystonia. Blahak C, Capelle HH, Bätzner H, **Kinfe T**, Hennerici MG, Krauss JK. *Stereotact Funct Neurosurg.* 2010;88(5):311-4. **Impact Factor:1,692**
38. Chronic deep brain stimulation in patients with tardive dystonia without a history of major psychosis. Capelle HH, Blahak C, Schrader C, Baezner H, **Kinfe TM**, Herzog J, Dengler R, Krauss JK. *Mov Disord.* 2010;25(10):1477-81. **Impact Factor:7,072**

39. Neonatal lesions of the entorhinal cortex induce long-term changes of limbic brain regions and maze learning deficits in adult rats. Harich S, **Kinfe T**, Koch M, Schwabe K. *Neuroscience*. 2008;153(4):918-28. **Impact Factor:3,277**
40. Hypothalamic deep brain stimulation for cluster headache: experience from a new multicase series. Bartsch T, Pinsker MO, Rasche D, **Kinfe T**, Hertel F, Diener HC, Tronnier V, Mehdorn HM, Volkmann J, Deuschl G, Krauss JK. *Cephalalgia*. 2008;28(3):285-95. **Impact Factor:3,609**
41. Cell type-specific mRNA quantitation in non-neoplastic tissues after laser-assisted cell picking. Bohle RM, Hartmann E, **Kinfe T**, Ermert L, Seeger W, Fink L. *Pathobiology*. 2000;68(4-5):191-5. **Impact Factor:1,703**
42. Immunostaining for cell picking and real-time mRNA quantitation. Fink L, **Kinfe T**, Seeger W, Ermert L, Kummer W, Bohle RM. *Am J Pathol*. 2000 ;157(5):1459-66. **Impact Factor:4,057**
43. Immunostaining and laser-assisted cell picking for mRNA analysis. Fink L, **Kinfe T**, Stein MM, Ermert L, Hänze J, Kummer W, Seeger W, Bohle RM. *Lab Invest*. 2000;80(3):327-33. **Impact Factor:4,857**

### Review Artikel

44. Spotlight on cervical vagus nerve stimulation for the treatment of primary headache disorders: A review. Lendvai IS, Maier A, Scheele D, Hurlmann R, **Kinfe TM**. *J Pain Res J Pain Res*. 2018;11:1613-1625. doi: 10.2147/JPR.S129202. **Impact Factor:2,589**
45. Burst spinal cord stimulation: Review of preclinical studies and comments on clinical outcomes. Krishnan Chakravarthy, Alex Kent, Adil Reza, Fangfang Xing, Jeff Kramer, Lawrence Poree and **Thomas M. Kinfe** *Neuromodulation Neuromodulation*. 2019;22(3):235-243. **Impact Factor:2,8**
46. The appropriate use of neurostimulation of the spinal cord and peripheral nervous system for the treatment of chronic pain and ischemic diseases: the Neuromodulation Appropriateness Consensus Committee. Deer TR, Mekhail N, Provenzano D, Pope J, Krames E, Leong M, Levy RM, Abejon D, Buchser E, Burton A, Buvanendran A, Candido K, Caraway D, Cousins M, DeJongste M, Diwan S, Eldabe S, Gatzinsky K, Foreman RD, Hayek S, Kim P, **Kinfe TM**, Kloth D, Kumar K, Rizvi S, Lad SP, Liem L, Linderoth B, Mackey S, McDowell G, McRoberts P, Poree L, Prager J, Raso L, Rauck R, Russo M, Simpson B, Slavin K, Staats P, Stanton-Hicks M, Verrills P, Wellington J, Williams K, North R; Neuromodulation Appropriateness Consensus Committee. *Neuromodulation*. 2014;17(6):515-50; discussion 550. **Impact Factor:2,8**
47. Is Spinal Cord Stimulation Useful and Safe for the Treatment of Chronic Pain of Ischemic Origin? A Review. **Kinfe TM**, Bogdan P, Vatter H. *Clin J Pain*. 2016;32(1):7-13. **Impact Factor:3,492**

48. Occipital nerve block prior to occipital nerve stimulation for refractory chronic migraine and chronic cluster headache: myth or prediction? **Kinfe TM**, Schuss P, Vatter H. *Cephalalgia*. 2015;35(4):359-62. **Impact Factor:4,4**
49. The impact of multichannel microelectrode recording (MER) in deep brain stimulation of the basal ganglia. **Kinfe TM**, Vesper J. *Acta Neurochir Suppl*. 2013;117:27-33. **Impact Factor:1,881**
50. Role of danger associated molecular pattern molecules (DAMPs) in aneurysmal subarachnoid hemorrhage. Shafqat Rasul Chaudhry, Hafez A, Rezai JB, **Kinfe TM**, Alf Lamprecht, Niemela M, Sajjad Muhammad. *Int J Mol Sci Int J Mol Sci*. 2018;19(7). pii: E2035. doi: 10.3390/ijms19072035. **Impact Factor:4,2**
51. Spinal and Peripheral Neuromodulation and Neuroinflammation: Lessons learned thus far and future prospects of biomarker development. Krishnan Chakravarthy, Fang Xing, Kelly Bruno, Alexander R. Kent, Adil Raza, Rene Hurlemann, **Thomas M. Kinfe**. *Neuromodulation Neuromodulation*. 2019;22(3):235-243. doi: 10.1111/ner.12859. **Impact Factor:2,8**
52. Non-invasive and invasive brain stimulation concepts for the targeted treatment of schizophrenia symptom domains. **Thomas M. Kinfe** and Rene Hurlemann. *Nervenarzt* 2019;90(1):73-88. **Impact Factor:0,74**

#### **Letter, Case reports, Viewpoints**

53. Migraine improvement after anterior thalamic deep brain stimulation (ANT-DBS) for drug-resistant idiopathic generalized seizure: A case report. Ilana S. Lendvai, **Thomas M. Kinfe** *Headache* 2017 Jun;57(6):964-966. **Impact Factor:3,0**
54. Stereotactic MR-guided focussed ultrasound deep brain lesioning: The resurrection of posteroventral pallidotomy and thalamotomy for Parkinson's Disease? **Kinfe TM** *Acta Neurochir (Wien)*. 2017 2017;159(7):1367-1369. **Impact Factor:1,881**
55. Sub-perceptual Burst versus perceptual tonic spinal cord stimulation waveforms for drug-resistant orthostatic tremor: comparative data of 2 cases Bogdan Pinteá, Laura de Boni, **Kinfe TM** *Mov Disord Clin Pract*. 2017;4(4):612-615. **Impact Factor: 0.76**
56. The default mode network: a neuroimaging-based objective biomarker and predictor for neuromodulation treatment of migraine? **Kinfe TM** *J Neurosurg Sci*. 2016 Nov 17. **Impact Factor:1,522**
57. The Usefulness of Spinal Cord Stimulation for Chronic Pain Due to Combined Vasospastic Prinzmetal Angina and Diabetic Neuropathic Pain of the Lower Limbs. **Kinfe TM**, Pinteá B. *J Neurol Surg A Cent Eur Neurosurg*. 2016;77(2):176-8. **Impact Factor:0,8**
58. Solitary fibrous tumor of the foramen of Monro. **Kinfe TM**, Tschan CA, Stan AC, Krauss JK. *Clin Neurol Neurosurg*. 2008;110(4):404-7. **Impact Factor:1,381**

- 59.** Deep brain stimulation for treatment of hemichorea-hemiballism after craniopharyngioma resection: long-term follow-up. Capelle HH, **Kinfe TM**, Krauss JK. J Neurosurg. 2011;115(5):966-70. **Impact Factor:4,059**
- 60.** Occipital nerve stimulation for refractory occipital pain after occipitocervical fusion: expanding indications. Ghaemi K, Capelle HH, **Kinfe TM**, Krauss JK. Stereotact Funct Neurosurg. 2008;86(6):391-3. **Impact Factor:1,692**
- 61.** Partial Response of Intractable Cluster-Tic Syndrome Treated by Cervical Non-Invasive Vagal Nerve Stimulation (nVNS). **Kinfe TM**, Pintea B, Güresir E, Vatter H. Brain Stimul. 2015;8(3):669-71. **Impact Factor:6,9**
- 62.** Reconstruction of the petrosal bone for treatment of kinetic tremor due to cerebellar herniation and torsion of cerebellar outflow pathways. **Kinfe TM**, Sedlacek O, Blahak C, Bergler W, Wöhrle JC, Daffertshofer M, Bänzner H, Hennerici M, Krauss JK. Mov Disord. 2008;23(10):1485-7. **Impact Factor:8,3**
- 63.** Pallidal deep brain stimulation in "belly dancer's dyskinesia.". Schrader C, Capelle H, **Kinfe T**, Krauss JK. Mov Disord. 2009;24(11):1698-700. **Impact Factor:8,3**
- 64.** Progress in neuromodulation therapy for treating acute refractory head pain in primary headache disorders. Krishnan Chakravarthy, Thomas M. Kinfe, Paul J. Christo. Pain Management; 2019;9(1):9-11. **Impact Factor:2,72**
- 65.** Is molecular inflammatory profiling a useful tool for personalized brain stimulation in psychiatric disorders? **Thomas M. Kinfe** and Rene Hurlemann. Neuromodulation; 2018;21(8):826-827. **Impact Factor:2,8**

### **Buchkapitel**

**Kinfe TM**, Vesper J: Deep brain stimulation. Chapter in: Runehov A&Oviedo L (eds) Encyclopedia of Science and Religion. Eds. Springer Science Media 2012 Heidelberg, Germany

Chakravarthy KV, **Kinfe TM**, Russo M, Sanarelli D: Vagus nerve stimulation for chronic pain. Chapter in: Vagus nerve stimulation. Eds. XXX 2019, XX, USA

### **Aktuelle Arbeiten unter Begutachtung**

#### **Original-Arbeiten**

- 66.** Chaudhry, SR., Kinfe, TM., Lamprecht, A., Niemelä, M., and Muhammad, S. Elevated systemic chemokine CCL5 is a predictive biomarker for post-aSAH complications and clinical outcome after aneurysmal subarachnoid hemorrhage (aSAH). International Journal of Molecular Sciences (under review).

- 67.** Stereotactic MR-guided focussed ultrasound deep brain lesioning for the treatment of psychiatric disorders: Technical development and current indications. **Thomas M. Kiefe** and Rene Hurlemann. Neuromodulation (under review)
- 68.** Chaudhry, SR., Kiefe, TM., Lamprecht, A., Niemelä, M., and Muhammad, S. Clinical significance of elevated interleukin (IL)-10 levels in aneurysmal subarachnoid hemorrhage (SAH) patients. Cytokine (under review).
- 69.** Lindemann J, Rakers C, Matuskova H, Simon B, **Kiefe T**, Petzold G. Vagus nerve stimulation reduces peri-infarct depolarization burden and cortical stroke volume in a rat model of stroke. Brain Stimulation (under review)

Thomas M. Kiefe

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