

主な研究課題・発表代表論文

脳神経外科学講座 Neurosurgery

研究領域 脳・神経病態制御医学

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主な研究課題

- ・脳卒中診療における遠隔医療システムの開発
- ・クモ膜下出血における遅発性脳虚血と皮質拡張性抑制の研究
- ・脳血管の特殊性に関する分子学のおよび解剖・生理学的探究
- ・てんかん、脳卒中、頭部外傷における温度受容機構の解明
- ・glymphatic pathwayの解明

発表代表論文

1. Moriyama H, Nomura S, Imoto H, Inoue T, Fujiyama Y, Haji K, Maruta Y, **Ishihara H**, Suzuki M. Suppressive Effects of Transient Receptor Potential Melastatin 8 Agonist on Epileptiform Discharges and Epileptic Seizures. *Front Pharmacol*. 2021 Oct 1;12:766782.
2. Kawano A. Association Between Spreading Depolarization and Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Post Hoc Analysis of a Randomized Trial of the Effect of Cilostazol on Delayed Cerebral Ischemia. *Neurocrit Care*. 2021 35(Suppl 2):91-99.
3. Oka F. Intracranial pressure spikes trigger spreading depolarizations. *Brain*. 2021; in press.
4. Sugimoto K. Peri-Infarct Hot-Zones Have Higher Susceptibility to Optogenetic Functional Activation-Induced Spreading Depolarizations. *Stroke*. 2020;51(8):2526-35.
5. Nishimoto T. Cerebral hemodynamics associated with fluid-attenuated inversion recovery hyperintense vessels in patients with extracranial carotid artery stenosis. *Neuroradiology*. 2020;62(6):677-84.
6. Ishihara H. Hounsfield Unit Value of Interpeduncular Cistern Hematomas Can Predict Symptomatic Vasospasm. *Stroke*. 2020 Jan;51(1):143-148.
7. Ishihara H. Impact of Frailty on Medium-Term Outcome in Asymptomatic Patients After Carotid Artery Stenting. *World Neurosurg*. 2019 Jul ; 127 : e396-e399.
8. Moriyama H. Suppressing Effects of Cooling Compounds Icilin on Penicillin G-Induced Epileptiform Discharges in Anesthetized Rats. *Front Pharmacol*. 2019 Jun 13 ; 10 : 652.
9. Oka F. Delayed Cerebral Ischemia After Subarachnoid Hemorrhage : Experimental-Clinical Disconnect and the Unmet Need. *Neurocrit Care*. 2020 Feb;32(1):238-251.
10. Sugimoto K. Cilostazol decreases duration of spreading depolarization and spreading ischemia after aneurysmal subarachnoid hemorrhage. *Ann Neurol*. 2018 Dec;84(6):873-885

11. Nomura S. Reduction of spike generation frequency by cooling in brain slices from rats and from patients with epilepsy. *J Cereb Blood Flow Metab.* 2019 Nov;39(11):2286-2294.
12. Sadahiro H. Activation of the Receptor Tyrosine Kinase AXL Regulates the Immune Microenvironment in Glioblastoma. *Cancer Res.* 2018 Jun 1;78(11):3002-3013.