



Yusuke Hori, MD

Clinical Instructor, Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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Bio

BIO

Dr. Hori received his MD from Sapporo Medical University, Japan, and during that time he served as a Medical Student Research Fellow in the Department of Pharmacology. He explored the functional role of the SIRT1 gene, a longevity-associated gene, and its association with various conditions such as muscular dystrophy. He also completed a Visiting Student Research Fellowship at the Health Sciences University of Hokkaido and participated in Human Genetics projects focusing on an association between the 27-bp deletion and 538G>A mutation in the ABCC11 Gene.

After graduating from medical school, Dr. Hori completed a neurosurgery residency at National Hospital Organization Okayama Medical Center in Japan. Subsequently, he completed a Stereotactic and Functional Neurosurgery Fellowship and then a Neurosurgical Oncology and Radiosurgery Fellowship at The Cleveland Clinic. He also completed an International Neurosurgery Fellowship at Boston Children's Hospital, Harvard Medical School. In 2022, he moved to Stanford University as a postdoctoral fellow, and under the supervision of Dr. Anca Pasca, he participated in brain organoid research focusing on hypoxic brain injuries.

Since July 2023, Dr. Hori has been working as a Clinical Instructor (Neurosurgical Oncology and Radiosurgery) in the Department of Neurosurgery at Stanford under the supervision of Dr. Steven D. Chang. His clinical interests include malignant brain and spine tumors in both adult and pediatric patients. His clinical research focuses on the application of minimally invasive treatments such as laser interstitial thermal therapy, focused ultrasound, and radiosurgery to treat various neurosurgical conditions. His current lab research aims to develop an organoid model for radiation-induced brain injuries and a high-throughput screening platform to identify novel therapeutic compounds, for which he received a Clinician Educator Grant from Stanford University Maternal and Child Health Research Institute. Outside of medicine, he enjoys playing music including guitar and drums.

CLINICAL FOCUS

- Neurological Surgery
- Neurosurgical Oncology
- Radiosurgery

ACADEMIC APPOINTMENTS

- Clinical Instructor, Neurosurgery
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Clinician Educator Grant, Stanford University Maternal and Child Health Research Institute (2023)
- The Research Incentive Award, American College of Physicians Japan Chapter (2015)
- JASSO's Student of the Year 2012 Grand Prize, Japan Student Services Organization (2012)
- Japanese Society of Anti-Aging Medicine Registration Award, Keystone Symposium on Aging and Diseases of Aging (2012)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Channel Administrator, Stanford Neurosurgery Channel in Cureus (2024 - present)
- Editor, Frontiers in Neurology (2023 - present)
- Editor, Frontiers in Oncology (2023 - present)
- Member, AANS/CNS Section on Tumors (2020 - present)
- Member, The Congress of Neurological Surgeons (2019 - present)
- Member, The Japan Neurosurgical Society (2012 - present)
- Member, The Molecular Biology Society of Japan (2009 - present)
- Reviewer, BMJ Case Reports (2022 - present)
- Reviewer, World Neurosurgery: X (2022 - present)
- Reviewer, Journal of Neuro-Oncology (2020 - present)
- Reviewer, Neuromodulation: Technology at the Neural Interface (2019 - present)
- Reviewer, Nutrition, Metabolism and Cardiovascular Diseases (2019 - present)
- Reviewer, European Journal of Medical Genetics (2018 - present)
- Reviewer, World Neurosurgery (2018 - present)
- Reviewer, Brain Research (2018 - present)
- Reviewer, Scientific Reports (2017 - present)
- Reviewer, Journal of Pharmacology and Experimental Therapeutics (2013 - present)

PROFESSIONAL EDUCATION

- Postdoctoral Fellow, Stanford University School of Medicine , Brain Organoids and Disease Modeling (NeoPasca Lab) (2023)
- International Fellow, Boston Children's Hospital, Harvard Medical School, MA , Pediatric Neurosurgery Fellowship (2022)
- Chief Clinical Fellow, Cleveland Clinic, OH , Neurosurgical Oncology and Radiosurgery Fellowship (2021)
- Clinical Fellow, Cleveland Clinic, OH , Stereotactic and Functional Neurosurgery Fellowship (2019)
- Resident, NHO Okayama Medical Center, Okayama University, Japan , Neurosurgical Residency (2018)
- Intern, Asahi General Hospital, Japan , Mandatory Postgraduate Clinical Training Program (2015)
- M.D., Sapporo Medical University, Japan (2013)
- Medical Student Research Fellow, Sapporo Medical University, Japan , Molecular Pharmacology (Dr. Horio Lab) (2013)
- Visiting Student Research Fellow, Health Sciences University of Hokkaido, Japan , Human Genetics (Dr. Niikawa Lab) (2011)

PATENTS

- Yoshiyuki Horio, Atsushi Kuno, Yusuke Hori. "Japan Patent 5,850,503 Composition for treating muscular dystrophy", Sapporo Medical University, Feb 3, 2016

Research & Scholarship

LAB AFFILIATIONS

- Anca Pasca, NeoPasca Lab (7/1/2022)

Publications

PUBLICATIONS

- **Adjuvant Stereotactic Radiosurgery With or Without Postresection Fractionated Radiation Therapy for the Management of Clival Chordomas in Adults: An International Multicenter Case Series.** *Neurosurgery*
Bin-Alamer, O., Pikis, S., Mantziaris, G., Abdulbaki, A., Mallela, A. N., Lu, V. M., Peker, S., Samanci, Y., Nabeel, A. M., Reda, W. A., Tawadros, S. R., El-Shehaby, A. M., Abdelkarim, et al
2023
- **Occult Intraosseous Dermoid Cyst at the Nasofrontal Junction.** *Pediatric neurosurgery*
Hori, Y. S., Albanese, J. S., Meara, J. G., Proctor, M. R.
2022
- **Multifocal Subdural Hematoma in a Teenager after a Fourth Dimension Roller Coaster Ride.** *Pediatric neurosurgery*
Hori, Y. S., Gramer, R. M., Penumaka, A., Northam, W. T., See, A. P.
2022
- **Stereotactic radiosurgery for intracranial chordomas: an international multiinstitutional study.** *Journal of neurosurgery*
Pikis, S., Mantziaris, G., Peker, S., Samanci, Y., Nabeel, A. M., Reda, W. A., Tawadros, S. R., El-Shehaby, A. M., Abdelkarim, K., Eldin, R. M., Sheehan, D., Sheehan, K., Liscak, et al
2022: 1-8
- **Stereotactic Laser Ablation (SLA) followed by consolidation stereotactic radiosurgery (cSRS) as treatment for brain metastasis that recurred locally after initial radiosurgery (BMRS): a multi-institutional experience.** *Journal of neuro-oncology*
Peña Pino, I., Ma, J., Hori, Y. S., Fomchenko, E., Dusenbery, K., Reynolds, M., Wilke, C., Yuan, J., Srinivasan, E., Grabowski, M., Fecci, P., Domingo-Musibay, E., Fujioka, et al
2022; 156 (2): 295-306
- **Standalone gamma knife radiosurgery for brain metastasis of malignant peripheral nerve sheath tumor** *INTERDISCIPLINARY NEUROSURGERY-ADVANCED TECHNIQUES AND CASE MANAGEMENT*
Hori, Y. S., Barnett, G. H.
2021; 25
- **Spinal Cord Stimulation for Visceral Pain: Present Approaches and Future Strategies.** *Pain medicine (Malden, Mass.)*
Woodroffe, R. W., Pearson, A. C., Pearlman, A. M., Howard, M. A., Nauta, H. J., Nagel, S. J., Hori, Y. S., Machado, A. G., Almeida Frizon, L., Helland, L., Holland, M. T., Gillies, G. T., Wilson, et al
2020; 21 (10): 2298-2309
- **Earlier radiosurgery leads to better pain relief and less medication usage for trigeminal neuralgia patients: an international multicenter study.** *Journal of neurosurgery*
Mureb, M., Golub, D., Benjamin, C., Gurewitz, J., Strickland, B. A., Zada, G., Chang, E., Urgošák, D., Lišák, R., Warnick, R. E., Speckter, H., Eastman, S., Kaufmann, et al
2020: 1-8
- **Insidious abdominal wall pseudocyst following ventriculoperitoneal shunting** *INTERDISCIPLINARY NEUROSURGERY-ADVANCED TECHNIQUES AND CASE MANAGEMENT*
Hori, Y. S., Sharma, A., Nagel, S. J.
2020; 19

- **Delayed obstructive hydrocephalus from intraventricular hemorrhage in a patient with concomitant deep vein thrombosis and occult cancer** *CHIRURGIA-ITALY*
Hori, Y. S., Ebisudani, Y., Aoi, M., Fukuhara, T.
2019; 32 (2): 99-101
- **Hypertensive Cerebral Hemorrhage in a Patient with Turner Syndrome Caused by Deletion in the Short Arm of the X Chromosome.** *Pediatric neurosurgery*
Hori, Y. S., Ohkura, T., Ebisudani, Y., Umakoshi, M., Ishi, M., Oda, K., Aoi, M., Inoue, T., Furujo, M., Tanaka, H., Fukuhara, T.
2018; 53 (3): 167-170
- **Subarachnoid hemorrhage from rupture of a rapidly formed aneurysm following relapse of fungal orbital apex syndrome** *CHIRURGIA-ITALY*
Hori, Y. S., Saito, T., Ebisudani, Y., Yamada, H., Akagi, Y., Aoi, M., Shinno, Y., Narai, H., Marunaka, H., Fukuhara, T.
2018; 31 (6): 264-267
- **Elevated Serum Fibrinogen Degradation Products on Admission Is a Novel Predictive Factor for Recurrence of Chronic Subdural Hematoma.** *World neurosurgery*
Hori, Y. S., Ebisudani, Y., Aoi, M., Fukuhara, T.
2018; 118: e753-e757
- **Choroid Plexus Hyperplasia with Intractable Ascites and a Resulting Communicating Hydrocele following Shunt Operation for Hydrocephalus.** *Pediatric neurosurgery*
Hori, Y. S., Nagakita, K., Ebisudani, Y., Aoi, M., Shinno, Y., Fukuhara, T.
2018; 53 (6): 407-412
- **Primary Central Nervous System Hodgkin Lymphoma-Like Posttransplant Lymphoproliferative Disorder.** *World neurosurgery*
Hori, Y. S., Nagakita, K., Ebisudani, Y., Aoi, M., Fukuhara, T., Shinno, Y.
2018; 114: 230-234
- **Extracranial glioblastoma diagnosed by examination of pleural effusion using the cell block technique: case report.** *Neurosurgical focus*
Hori, Y. S., Fukuhara, T., Aoi, M., Oda, K., Shinno, Y.
2018; 44 (6): E8
- **Adult-Onset Hemorrhagic Quasi-Moyamoya Disease with Unilateral Steno-occlusive Lesion in a Patient with Neurofibromatosis Type 1.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Hori, Y. S., Ebisudani, Y., Aoi, M., Fukuhara, T.
2018; 27 (5): 1423-1424
- **Peritoneal catheter knot formation in ventriculoperitoneal shunting: an intraoperative artificial phenomenon?** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*
Hori, Y. S., Ebisudani, Y., Umakoshi, M., Aoi, M., Fukuhara, T.
2018; 34 (1): 31-33
- **Joint Capsule-Like Intracranial Osteochondroma Mimicking Cystic Meningioma.** *World neurosurgery*
Hori, Y. S., Ebisudani, Y., Aoi, M.
2017; 108: 985.e9-985.e11
- **Fulminant Bacillus cereus septicaemia with multiple organ ischaemic/haemorrhagic complications in a patient undergoing chemotherapy for acute myelogenous leukaemia.** *BMJ case reports*
Hori, Y. S., Kadera, S., Nagai, Y., Suzuki, Y.
2017; 2017
- **A Novel Association between the 27-bp Deletion and 538G>A Mutation in the ABCC11 Gene.** *Human biology*
Hori, Y. S., Yamada, A., Matsuda, N., Ono, Y., Starenki, D., Sosonkina, N., Yoshiura, K. I., Niikawa, N., Ohta, T.
2017; 89 (4): 305-307
- **Presence of a Malignant Tumor as a Novel Predictive Factor for Repeated Recurrences of Chronic Subdural Hematoma.** *World neurosurgery*
Hori, Y. S., Aoi, M., Oda, K., Fukuhara, T.
2017; 105: 714-719
- **Intrathecal Baclofen Pump Implantation for Type 2 Gaucher Disease.** *Pediatric neurosurgery*
Hori, Y. S., Fukuhara, T., Aoi, M., Ochi, M., Furujo, M.

2017; 52 (5): 331-335

- **Eosinopenia in Children following Traumatic Intracranial Hemorrhage Is Associated with Poor Prognosis and Prolonged Hospital Admission.** *Pediatric neurosurgery*
Hori, Y. S., Fukuhara, T., Aoi, M., Namba, Y.
2016; 51 (2): 57-60
- **Prefectural difference in spontaneous intracerebral hemorrhage incidence in Japan analyzed with publically accessible diagnosis procedure combination data: possibilities and limitations.** *Epidemiology and health*
Fukuhara, T., Hori, Y.
2016; 38: e2016028
- **Eosinopenia as a Predictive Factor of the Short-Term Risk of Mortality and Infection after Acute Cerebral Infarction.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Hori, Y. S., Koderu, S., Sato, Y., Shiojiri, T.
2016; 25 (6): 1307-12
- **Chloroquine potentiates temozolomide cytotoxicity by inhibiting mitochondrial autophagy in glioma cells.** *Journal of neuro-oncology*
Hori, Y. S., Hosoda, R., Akiyama, Y., Sebori, R., Wanibuchi, M., Mikami, T., Sugino, T., Suzuki, K., Maruyama, M., Tsukamoto, M., Mikuni, N., Horio, Y., Kuno, et al
2015; 122 (1): 11-20
- **Inactive cardiac sarcoidosis with characteristic findings on cardiac MRI.** *BMJ case reports*
Hori, Y. S., Koderu, S., Oshima, H., Kanda, J.
2013; 2013
- **Regulation of FOXOs and p53 by SIRT1 modulators under oxidative stress.** *PloS one*
Hori, Y. S., Kuno, A., Hosoda, R., Horio, Y.
2013; 8 (9): e73875
- **Resveratrol improves cardiomyopathy in dystrophin-deficient mice through SIRT1 protein-mediated modulation of p300 protein.** *The Journal of biological chemistry*
Kuno, A., Hori, Y. S., Hosoda, R., Tanno, M., Miura, T., Shimamoto, K., Horio, Y.
2013; 288 (8): 5963-72
- **Differential cell-protective function of two resveratrol (trans-3,5,4'-trihydroxystilbene) glucosides against oxidative stress.** *The Journal of pharmacology and experimental therapeutics*
Hosoda, R., Kuno, A., Hori, Y. S., Ohtani, K., Wakamiya, N., Oohiro, A., Hamada, H., Horio, Y.
2013; 344 (1): 124-32
- **Resveratrol ameliorates muscular pathology in the dystrophic mdx mouse, a model for Duchenne muscular dystrophy.** *The Journal of pharmacology and experimental therapeutics*
Hori, Y. S., Kuno, A., Hosoda, R., Tanno, M., Miura, T., Shimamoto, K., Horio, Y.
2011; 338 (3): 784-94