

Stanford



Karthik Ravi

MD Student with Scholarly Concentration in Informatics & Data-Driven Medicine / Surgery, expected graduation Spring 2028

Bio

HONORS AND AWARDS

- Knight-Hennessy Scholar, Stanford
- Forbes under 30, Forbes (2025)

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of Michigan Ann Arbor (2022)
- MPhil, University of Cambridge , Medical Sciences (2023)
- BS, University of Michigan , Biology and Business (2022)

LINKS

- LinkedIn: <https://linkedin.com/in/meet-karthik-ravi>
- Research Publications: <https://scholar.google.com/citations?user=rlzt9IEAAA&hl=en>

Publications

PUBLICATIONS

- **Adaptive immunotherapeutic paradigms in diffuse midline glioma: integrating epigenetic reprogramming, neuron-glioma interactions, and tumor microenvironment modulation.** *Journal of neuro-oncology*
Liu, J., Ha, J. H., Abikenari, M., Sjöholm, M. A., Annagiri, S., Ravi, K., Bergsneider, B. H., Verma, R., Theodoros, D., Medikonda, R., Li, G., Prolo, L. M., Monje, et al
2025; 176 (2): 144
- **Supraorbital craniotomy for focal frontal epilepsy via eyebrow incision and guided by in situ stereo-EEG electrodes: illustrative case.** *Journal of neurosurgery. Case lessons*
Ravi, K., Huang, Y., Fariyike, O. A., Uchitel, J., Wu, A. Y., Hyslop, A., Gallentine, W. B., Phillips, H. W.
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- **Clinical Impact of Intratumoral Cyst Decompression in Diffuse Intrinsic Pontine Glioma Patients: A Retrospective Analysis**
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OXFORD UNIV PRESS INC.2025: v419
- **The use of Bevacizumab in the treatment of brain arteriovenous malformations: a systematic review.** *Neurosurgical review*
Baig Mirza, A., Fayez, F., Al-Munaer, M., Georgiannakis, A., Burn, L., Ravi, K., Vastani, A., Syrris, C., Patel, J., Matloob, S.
2025; 48 (1): 506
- **Prediction of seizure risk after repetitive mild traumatic brain injury in childhood.** *Journal of neurosurgery. Pediatrics*
Jin, M. C., Ravi, K., Wu, A., Garcia, C. A., Rodrigues, A. J., Savchuk, S., Ruiz Colón, G. D., Kakusa, B. W., Parker, J. J., Grant, G. A., Prolo, L. M.
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- **TRENDS IN LOW GRADE GLIOMA PROGNOSIS AND THE EVOLVING IMPACT OF GROSS TOTAL RESECTION ACROSS FIFTY YEARS: A MULTICOHORT ANALYSIS**
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- **Retrospective Comparison of Targeted Anticancer Drugs Predicted by the CNS-TAP Tool Versus Those Selected by a Molecularly Driven Tumor Board in Children With DIPG.** *Journal of pediatric hematology/oncology*
Roberts, H. J., Ravi, K., Marini, B. L., Schepers, A., Kline, C., Kilburn, L., Prados, M., Byron, S. A., Sturza, J., Mueller, S., Koschmann, C., Franson, A. T.
2024
- **Unraveling molecular advancements in chordoma tumorigenesis and treatment response: a review of scientific discoveries and clinical implications.** *Neurosurgical focus*
Jin, M. C., Connolly, I. D., Ravi, K., Tobert, D. G., MacDonald, S. M., Shin, J. H.
2024; 56 (5): E18
- **Clinical Efficacy of ONC201 in H3K27M-Mutant Diffuse Midline Gliomas Is Driven by Disruption of Integrated Metabolic and Epigenetic Pathways.** *Cancer discovery*
Venneti, S., Kawakibi, A. R., Ji, S., Waszak, S. M., Sweha, S. R., Mota, M., Pun, M., Deogharkar, A., Chung, C., Tarapore, R. S., Ramage, S., Chi, A., Wen, et al
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- **CLINICAL EFFICACY AND PREDICTIVE BIOMARKERS OF ONC201 IN H3K27M-MUTANT DIFFUSE MIDLINE GLIOMA**
Kawakibi, A., Tarapore, R., Gardner, S., Chi, A., Kurz, S., Wen, P. Y., Arrillaga-Romany, I., Batchelor, T., Butowski, N., Sumrall, A., Shonka, N., Harrison, R., DeGroot, et al
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- **Expanding Access to CNS-TAP: Design, Development, and Initial Use of a Complex Precision Health Specialty Web App for Neuro-Oncology.** *Studies in health technology and informatics*
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- **Predicting CNS penetration of precision medicine therapies in oncology: A comparison of the CNS TAP tool and the BOILED-Egg computational model**
Walker, G., Franson, A., Pai, M., Ravi, K., Roberts, H., Schepers, A., Koschmann, C., Marini, B. L.
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- **Cell-Free Tumor DNA (cf-tDNA) Liquid Biopsy: Current Methods and Use in Brain Tumor Immunotherapy** *FRONTIERS IN IMMUNOLOGY*
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- **Serial H3K27M cell-free tumor DNA (cf-tDNA) tracking predicts ONC201 treatment response and progression in diffuse midline glioma** *NEURO-ONCOLOGY*
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- **Variability in endoscopic assessment of Nissen fundoplication wrap integrity and hiatus herniation** *DISEASES OF THE ESOPHAGUS*
Song, E. J., Yadlapati, R., Chen, J. W., Parish, A., Whitson, M. J., Ravi, K., Patel, A., Carlson, D. A., Khan, A., Niedzwiecki, D., Leiman, D. A.
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- **CNS-TAP TOOL RECOMMENDATIONS OF TARGETED ANTI-CANCER AGENTS COMPARED TO THOSE SELECTED BY A MULTIDISCIPLINARY TUMOR BOARD IN A MOLECULARLY-DRIVEN DIPG CLINICAL TRIAL (PNOC003)**
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- **SERIAL PLASMA AND CSF CELL-FREE TUMOR DNA (CF-TDNA) TRACKING IN DIFFUSE MIDLINE GLIOMA PATIENTS UNDERGOING TREATMENT WITH ONC201**
Cantor, E., Wierzbicki, K., Tarapore, R., Ravi, K., Wadden, J., Babilla, C., Thomas, C., Cartaxo, R., Yadav, V., Ravindran, R., Bruzek, A. K., Cummings, J., Kawakibi, et al
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- **Panobinostat penetrates the blood-brain barrier and achieves effective brain concentrations in a murine model** *CANCER CHEMOTHERAPY AND PHARMACOLOGY*
Homan, M. J., Franson, A., Ravi, K., Roberts, H., Pai, M. P., Liu, C., He, M., Matvekas, A., Koschmann, C., Marini, B. L.
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- **COMPARISON OF TARGETED AGENTS RECOMMENDED BY THE CNS-TAP TOOL TO THOSE SELECTED BY A TUMOR BOARD IN A MOLECULARLY-DRIVEN DIPG CLINICAL TRIAL**
Roberts, H., Ravi, K., Marini, B., Kline, C., Mueller, S., Koschmann, C., Franson, A.
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- **Targeted agents recommended by the CNS TAP tool compared to those selected by a tumor board in a molecularly-driven clinical trial in children and young adults with DIPG.**
Roberts, H., Ravi, K., Kline, C., Mueller, S., Koschmann, C., Marini, B., Franson, A.
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- **Manufacturing Workers Have a Higher Incidence of Carpal Tunnel Syndrome** *JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE*
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- **Comparative pharmacokinetic analysis of the blood-brain barrier penetration of dasatinib and ponatinib in mice** *LEUKEMIA & LYMPHOMA*
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- **Astrocytes in rare neurological conditions: Morphological and functional considerations** *JOURNAL OF COMPARATIVE NEUROLOGY*
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- **ELECTRONIC SEQUENCING PROVIDES OPTIMIZED QUANTIFICATION OF SERIAL, MULTI-GENE MOLECULAR RESPONSE IN THE CSF OF CHILDREN WITH HIGH-GRADE GLIOMA**
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- **Electronic DNA Analysis of CSF Cell-free Tumor DNA to Quantify Multi-gene Molecular Response in Pediatric High-grade Glioma** *CLINICAL CANCER RESEARCH*
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- **Targeting and Therapeutic Monitoring of H3K27M-Mutant Glioma (vol 22, 19, 2020)** *CURRENT ONCOLOGY REPORTS*
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2020; 22 (5): 47
- **Targeting and Therapeutic Monitoring of H3K27M-Mutant Glioma** *CURRENT ONCOLOGY REPORTS*
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