

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

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

- **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*
Ravi, K., Meng, G., Roberts, H. J., Schepers, A., Franson, A., Koschmann, C., Marini, B. L., Flynn, A.
2022; 290: 804-808
- **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*
Wadden, J., Ravi, K., John, V., Babila, C., Koschmann, C.
2022; 13: 882452
- **Serial H3K27M cell-free tumor DNA (cf-tDNA) tracking predicts ONC201 treatment response and progression in diffuse midline glioma** *NEURO-ONCOLOGY*
Cantor, E., Wierzbicki, K., Tarapore, R. S., Ravi, K., Thomas, C., Cartaxo, R., Yadav, V., Ravindran, R., Bruzek, A. K., Wadden, J., John, V., Babila, C., Cummings, et al
2022; 24 (8): 1366-1374
- **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.
2022; 35 (5)
- **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)**
Roberts, H., Ravi, K., Schepers, A., Marini, B., Kline, C., Mueller, S., Koschmann, C., Franson, A.
OXFORD UNIV PRESS INC.2021: 108
- **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*
Battista, E. B., Yedulla, N. R., Koolmees, D. S., Montgomery, Z. A., Ravi, K., Day, C. S.
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- **Comparative pharmacokinetic analysis of the blood-brain barrier penetration of dasatinib and ponatinib in mice** *LEUKEMIA & LYMPHOMA*
Ravi, K., Franson, A., Homan, M. J., Roberts, H., Pai, M. P., Miklja, Z., He, M., Wen, B., Benitez, L. L., Perissinotti, A. J., Bixby, D. L., Koschmann, C., Marini, et al
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- **Astrocytes in rare neurological conditions: Morphological and functional considerations** *JOURNAL OF COMPARATIVE NEUROLOGY*
Ravi, K., Paidas, M. J., Saad, A., Jayakumar, A. R.
2021; 529 (10): 2676-2705
- **ELECTRONIC SEQUENCING PROVIDES OPTIMIZED QUANTIFICATION OF SERIAL, MULTI-GENE MOLECULAR RESPONSE IN THE CSF OF CHILDREN WITH HIGH-GRADE GLIOMA**
Bruzek, A., Muruganand, A., Ravi, K., Wadden, J., Babila, C., Tunkle, L., Wierzbicki, K., Stallard, S., Cantor, E., Qin, T., Wolfe, I., Mody, R., Muraszko, et al
OXFORD UNIV PRESS INC.2020: 288
- **Electronic DNA Analysis of CSF Cell-free Tumor DNA to Quantify Multi-gene Molecular Response in Pediatric High-grade Glioma** *CLINICAL CANCER RESEARCH*

Bruzek, A. K., Ravi, K., Muruganand, A., Wadden, J., Babila, C., Cantor, E., Tunkle, L., Wierzbicki, K., Stallard, S., Dickson, R. P., Wolfe, I., Mody, R., Schwartz, et al

2020; 26 (23): 6266-6276

● **Targeting and Therapeutic Monitoring of H3K27M-Mutant Glioma (vol 22, 19, 2020) *CURRENT ONCOLOGY REPORTS***

Wierzbicki, K., Ravi, K., Franson, A., Bruzek, A., Cantor, E., Harris, M., Homan, M. J., Marini, B. L., Kawakibi, A., Ravindran, R., Teodoro, R., Yadav, V., Koschmann, et al

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● **Targeting and Therapeutic Monitoring of H3K27M-Mutant Glioma *CURRENT ONCOLOGY REPORTS***

Wierzbicki, K., Ravi, K., Franson, A., Bruzek, A., Cantor, E., Harris, M., Homan, M. J., Marini, B. L., Kawakibi, A., Ravindran, R., Teodoro, R., Yadav, V., Koschmann, et al

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