

Stanford



Kathryn Taylor

Instructor, Neurology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Neurology

HONORS AND AWARDS

- Pediatric Cancer Fellowship, Damon Runyon-Sohn (2017-2021)
- Fellowship Award, Stanford CHRI (2017-2018)
- PhD Fellowship Award, Abbie's Army (2013-2015)
- Pediatric Basic Science Award, WFNO/SNO (supported by the Pediatric Brain Tumor Foundation) (2013)

PROFESSIONAL EDUCATION

- PhD, University of London : The Institute of Cancer Research , Neuro-oncology (2016)

Publications

PUBLICATIONS

- **Glioma synapses recruit mechanisms of adaptive plasticity.** *Nature*
Taylor, K. R., Barron, T., Hui, A., Spitzer, A., Yalcin, B., Ivec, A. E., Geraghty, A. C., Hartmann, G. G., Arzt, M., Gillespie, S. M., Kim, Y. S., Maleki Jahan, S., Zhang, et al
2023
- **Neuron-oligodendroglial interactions in health and malignant disease.** *Nature reviews. Neuroscience*
Taylor, K. R., Monje, M.
2023
- **Remote neuronal activity drives glioma progression through SEMA4F.** *Nature*
Huang-Hobbs, E., Cheng, Y. T., Ko, Y., Luna-Figueroa, E., Lozzi, B., Taylor, K. R., McDonald, M., He, P., Chen, H. C., Yang, Y., Maleki, E., Lee, Z. F., Murali, et al
2023
- **GABAERGIC NEURON-TO-GLIOMA SYNAPSES IN DIFFUSE MIDLINE GLIOMAS**
Barron, T., Yalcin, B., Mochizuki, A., Cantor, E., Shamardani, K., Tlais, D., Franson, A., Lyons, S., Mehta, V., Jahan, S., Taylor, K., Keough, M., Xu, et al
OXFORD UNIV PRESS INC.2023
- **Invasive glioma cells: The malignant pioneers that follow the current.** *Cell*
Taylor, K. R., Monje, M.
2022; 185 (16): 2846-2848
- **Mild respiratory COVID can cause multi-lineage neural cell and myelin dysregulation.** *Cell*

Fernández-Castañeda, A., Lu, P., Geraghty, A. C., Song, E., Lee, M. H., Wood, J., O'Dea, M. R., Dutton, S., Shamardani, K., Nwangwu, K., Mancusi, R., Yalçın, B., Taylor, et al
2022

- **How Support of Early Career Researchers Can Reset Science in the Post-COVID19 World.** *Cell*
Gibson, E. M., Bennett, F. C., Gillespie, S. M., Guler, A. D., Gutmann, D. H., Halpern, C. H., Kucenas, S. C., Kushida, C. A., Lemieux, M., Liddelow, S., Macauley, S. L., Li, Q., Quinn, et al
2020
- **Electrical and synaptic integration of glioma into neural circuits.** *Nature*
Venkatesh, H. S., Morishita, W., Geraghty, A. C., Silverbush, D., Gillespie, S. M., Arzt, M., Tam, L. T., Espenel, C., Ponnuswami, A., Ni, L., Woo, P. J., Taylor, K. R., Agarwal, et al
2019
- **ALK2 inhibitors display beneficial effects in preclinical models of ACVR1 mutant diffuse intrinsic pontine glioma.** *Communications biology*
Carvalho, D. n., Taylor, K. R., Olaciregui, N. G., Molinari, V. n., Clarke, M. n., Mackay, A. n., Ruddle, R. n., Henley, A. n., Valenti, M. n., Hayes, A. n., Brandon, A. D., Eccles, S. A., Raynaud, et al
2019; 2 (1): 156
- **Functional diversity and cooperativity between subclonal populations of pediatric glioblastoma and diffuse intrinsic pontine glioma cells** *NATURE MEDICINE*
Vinci, M., Burford, A., Molinari, V., Kessler, K., Popov, S., Clarke, M., Taylor, K. R., Pemberton, H. N., Lord, C. J., Gutteridge, A., Forshew, T., Carvalho, D., Marshall, et al
2018; 24 (8): 1204+
- **DRUG SCREENING LINKED TO MOLECULAR PROFILING IDENTIFIES NOVEL DEPENDENCIES IN PATIENT-DERIVED PRIMARY CULTURES OF PAEDIATRIC HIGH GRADE GLIOMA AND DIPG**
Mackay, A., Molinari, V., Carvalho, D., Pemberton, H., Temelso, S., Burford, A., Clarke, M., Fofana, M., Boulton, J., Izquierdo, E., Taylor, K., Bjerke, L., Salom, et al
OXFORD UNIV PRESS INC.2018: 93–94
- **Integrated Molecular Meta-Analysis of 1,000 Pediatric High-Grade and Diffuse Intrinsic Pontine Glioma** *CANCER CELL*
Mackay, A., Burford, A., Carvalho, D., Izquierdo, E., Fazal-Salom, J., Taylor, K. R., Bjerke, L., Clarke, M., Vinci, M., Nandhabalan, M., Temelso, S., Popov, S., Molinari, et al
2017; 32 (4): 520+
- **Transcriptional Dependencies in Diffuse Intrinsic Pontine Glioma** *CANCER CELL*
Nagaraja, S., Vitanza, N. A., Woo, P. J., Taylor, K. R., Liu, F., Zhang, L., Li, M., Meng, W., Ponnuswami, A., Sun, W., Ma, J., Hulleman, E., Swigut, et al
2017; 31 (5): 635-?
- **Recurrent activating ACVR1 mutations in diffuse intrinsic pontine glioma** *NATURE GENETICS*
Taylor, K. R., Mackay, A., Truffaux, N., Butterfield, Y. S., Morozova, O., Philippe, C., Castel, D., Grasso, C. S., Vinci, M., Carvalho, D., Carcaboso, A. M., de Torres, C., Cruz, et al
2014; 46 (5): 457-461
- **Genomic analysis of diffuse intrinsic pontine gliomas identifies three molecular subgroups and recurrent activating ACVR1 mutations** *Nature Genetics*
Buczkwicz, P.
2014: 451-56