Kathryn Taylor
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Bio

ACADEMIC APPOINTMENTS
• Instructor, Neurology & Neurological Sciences

Publications

PUBLICATIONS
• MALIGNANT SYNAPTIC PLASTICITY IN PEDIATRIC HIGH-GRADE GLIOMAS
Taylor, K., Barron, T., Hartmann, G., Zhang, H., Hui, A., Gillespie, S., Monje, M.
OXFORD UNIV PRESS INC.2021: 21

• BDNF-TRKB SIGNALING REGULATES NEURON-GLIOMA SYNAPTOGENESIS AND PROMOTES TUMOR PROGRESSION
Taylor, K., Zhang, H., Hui, A., Gillespie, S., Monje, M.
OXFORD UNIV PRESS INC.2020: 468

• How Support of Early Career Researchers Can Reset Science in the Post-COVID19 World. Cell
Gibson, E. M., Bennett, F. C., Gillespie, S. M., Gale, 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 CIRCUIT INTEGRATION OF GLIOMA THROUGH NEURON-GLIOMA SYNAPSES AND POTASSIUM CURRENTS
Venkatesh, H., Morishita, W., Geraghty, A., Silverbush, D., Gillespie, S., Arzt, M., Tam, L., Ponnuswami, A., Ni, L., Woo, P., Taylor, K., Agarwal, A., Regev, et al
OXFORD UNIV PRESS INC.2019: 251

• 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
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• NEURONAL-ACTIVITY SECRETED BDNF INCREASES DIPG PROLIFERATION
Taylor, K., Aziz-Bose, R., Blank, A., Geraghty, A., Monje, M.
OXFORD UNIV PRESS INC.2019: 67

• 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., Molinar, 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

• ALK2 inhibitors display beneficial effects in preclinical models of ACVR1 mutant diffuse intrinsic pontine glioma. Communications biology
Carvalho, D., Taylor, K. R., Olaciregui, N. G., Molinar, V., Clarke, M., Mackay, A., Ruddle, R., Henley, A., Valenti, M., Hayes, A., Brandon, A. D., Eccles, S. A., Raynaud, et al
2019; 2: 156

• Functional diversity and cooperativity between subclonal populations of pediatric glioblastoma and diffuse intrinsic pontine glioma cells NATURE MEDICINE
Vinci, M., Burford, A., Molinar, 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
• **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., Boult, 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, I., 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., Batterfield, 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