

## Rebecca Mancusi

Ph.D. Student in Cancer Biology, admitted Autumn 2019

### Publications

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#### PUBLICATIONS

- **BRAINSTEM NEUROMODULATORY NEURONS PROMOTE GLIOMA GROWTH LOCALLY AND VIA LONG-RANGE PROJECTIONS TO MIDLINE AND CORTICAL STRUCTURES**  
Drexler, R., Drinnenberg, A., Gavish, A., Yalcin, B., Shamardani, K., Rogers, A., Mancusi, R., Taylor, K., Kim, Y., Woo, P., Ravel, A., Tatlock, E., Jokhai, et al  
OXFORD UNIV PRESS INC.2024
- **MYELOID POPULATIONS MODULATE GD2 CAR T CELL ACTIVITY IN DIFFUSE MIDLINE GLIOMA**  
Ramakrishna, S., Geraghty, A., Good, Z., Desai, M., Mancusi, R., Mahdi, J., Song, K., Ehlinger, Z., Chen, Y., Hamilton, M., Rietberg, S., Majzner, R., Schultz, et al  
OXFORD UNIV PRESS INC.2024
- **Cholinergic Neuronal Activity Promotes Diffuse Midline Glioma Growth through Muscarinic Signaling.** *bioRxiv : the preprint server for biology*  
Drexler, R., Drinnenberg, A., Gavish, A., Yalcin, B., Shamardani, K., Rogers, A., Mancusi, R., Taylor, K. R., Kim, Y. S., Woo, P. J., Ravel, A., Tatlock, E., Ramakrishnan, et al  
2024
- **Immunotherapy-related cognitive impairment after CAR T cell therapy in mice.** *bioRxiv : the preprint server for biology*  
Geraghty, A. C., Acosta-Alvarez, L., Rotiroti, M., Dutton, S., O'Dea, M. R., Woo, P. J., Xu, H., Shamardani, K., Mancusi, R., Ni, L., Mulinyawe, S. B., Kim, W. J., Liddel, et al  
2024
- **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
- **The neuroscience of cancer.** *Nature*  
Mancusi, R., Monje, M.  
2023; 618 (7965): 467-479
- **Radiotherapy in combination with CD47 blockade elicits a macrophage-mediated abscopal effect.** *Nature cancer*  
Nishiga, Y., Drainas, A. P., Baron, M., Bhattacharya, D., Barkal, A. A., Ahrari, Y., Mancusi, R., Ross, J. B., Takahashi, N., Thomas, A., Diehn, M., Weissman, I. L., Graves, et al  
2022
- **A cell-based bioluminescence reporter assay of human Sonic Hedgehog protein autoprocessing to identify inhibitors and activators.** *The Journal of biological chemistry*  
Ciulla, D. A., Dranchak, P., Pezzullo, J. L., Mancusi, R. A., Psaras, A. M., Rai, G., Giner, J., Inglese, J., Callahan, B. P.  
2022: 102705
- **GLIOMA SYNAPSES RECRUIT MECHANISMS OF ADAPTIVE PLASTICITY**  
Taylor, K., Barron, T., Zhang, H., Hui, A., Hartmann, G., Ni, L., Venkatesh, H., Du, P., Mancusi, R., Yalcin, B., Chau, I., Ponnuswami, A., Aziz-Bose, et al  
OXFORD UNIV PRESS INC.2022: 25
- **Mild respiratory COVID can cause multi-lineage neural cell and myelin dysregulation.** *Cell*

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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

- **Programmable siRNA pro-drugs that activate RNAi activity in response to specific cellular RNA biomarkers.** *Molecular therapy. Nucleic acids*  
Han, S. P., Scherer, L., Gethers, M., Salvador, A. M., Salah, M. B., Mancusi, R., Sagar, S., Hu, R., DeRogatis, J., Kuo, Y. H., Marcucci, G., Das, S., Rossi, et al  
2022; 27: 797-809
- **GD2-CAR T cell therapy for H3K27M-mutated diffuse midline gliomas.** *Nature*  
Majzner, R. G., Ramakrishna, S., Yeom, K. W., Patel, S., Chinnasamy, H., Schultz, L. M., Richards, R. M., Jiang, L., Barsan, V., Mancusi, R., Geraghty, A. C., Good, Z., Mochizuki, et al  
2022
- **BRAFV600E-induced senescence drives Langerhans cell histiocytosis pathophysiology.** *Nature medicine*  
Bigenwald, C., Le Berichel, J., Wilk, C. M., Chakraborty, R., Chen, S. T., Tabachnikova, A., Mancusi, R., Abhyankar, H., Casanova-Acebes, M., Laface, I., Akturk, G., Jobson, J., Karoulia, et al  
2021; 27 (5): 851-861
- **Improved Sonic Hedgehog Protein Autoprocessing Assay in Cells Using Luciferase Reporter System**  
Ciulla, D., Mancusi, R., Psaras, A., Ghotra, S., Callahan, B.  
WILEY.2020
- **Protein-Nucleic Acid Conjugation with Sterol Linkers Using Hedgehog Autoprocessing.** *Bioconjugate chemistry*  
Zhang, X., Xu, Z., Moumin, D. S., Ciulla, D. A., Owen, T. S., Mancusi, R. A., Giner, J. L., Wang, C., Callahan, B. P.  
2019; 30 (11): 2799-2804