Stanford

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Publications

PUBLICATIONS

- **Reduced Cas9 transgene silencing by incorporation of intron sequences.** *Nature communications*
  Arana, S., Du, P. P., Vaughan-Jackson, A., Enright, N., Spees, K., Valbuena, R., Garcia, C. A., Nguyen, T., Venida, A., Seczynska, M., Bintu, L., Lehner, P. J., Prolo, et al
  2025; 16 (1): 10656
- **Disrupting BMAL1 enhances Temozolomide efficacy and abolishes circadian timing effects in pediatric high-grade gliomas**
  Nettnin, E., Garcia, C., Sayed, F., Guinle, M., Gibson, E., Prolo, L.
  OXFORD UNIV PRESS INC.2025: v340
- **Macropinocytosis as a novel target for pediatric high grade glioma therapy**
  Nguyen, T., Spees, K., Garcia, C., Arana, S., Du, P., Levin-Konigsberg, R., Vaughan-Jackson, A., Nettnin, E., Bassik, M., Prolo, L.
  OXFORD UNIV PRESS INC.2025: v179-v180
- **Circadian rhythms in pediatric high-grade gliomas may contribute to treatment efficacy.** *Scientific reports*
  Nettnin, E. A., Garcia, C. A., Sayed, F. F., Schonfeld, E., Nguyen, T., Guinle, M. I., Petritsch, C. K., Gibson, E. M., Prolo, L. M.
  2025; 15 (1): 32010
- **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.
  2025: 1-10
- **THE ROLE OF MAP4K4 IN TUMOR CELL INVASION OBSERVED IN A 3D IN VITRO MODEL OF PEDIATRIC GLIOBLASTOMA**
  Garcia, C., Nettnin, E., Arana, S., Nguyen, T., Guinle, M., Wilson, C., Petritsch, C. K., Bassik, M. C., Prolo, L. M.
  OXFORD UNIV PRESS INC.2024
- **PEDIATRIC GLIOMAS EXPRESS CIRCADIAN GENES AND DEMONSTRATE CIRCADIAN REGULATION OF TEMOZOLOMIDE SENSITIVITY**
  Nettnin, E. A., Garcia, C. A., Schonfeld, E., Mehl, L. C., Guinle, M., Petritsch, C. K., Gibson, E. M., Prolo, L. M.
  OXFORD UNIV PRESS INC.2024
- **BIOPROCESSING OF VIABLE SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Tran, C., Garcia, C., Xing, L., Lyle, G., Guinle, M., Bagley, B., Mahaney, K., Vogel, H., Learned, K., Vaske, O., Grant, G., Prolo, et al
  OXFORD UNIV PRESS INC.2024
- **CDC42BPA::BRAF represents a novel fusion in desmoplastic infantile ganglioglioma/desmoplastic infantile astrocytoma.** *Neuro-oncology advances*
  Barros Guinle, M. I., Nirschl, J. J., Xing, Y. L., Nettnin, E. A., Arana, S., Feng, Z. P., Nasajpour, E., Pronina, A., Garcia, C. A., Grant, G. A., Vogel, H., Yeom, K. W., Prolo, et al
  2024; 6 (1): vdae050
- **Review: therapeutic approaches for circadian modulation of the glioma microenvironment.** *Frontiers in oncology*
  Nettnin, E. A., Nguyen, T., Arana, S., Barros Guinle, M. I., Garcia, C. A., Gibson, E. M., Prolo, L. M.

2023; 13: 1295030

- **Review: therapeutic approaches for circadian modulation of the glioma microenvironment** *Fronteirs in Oncology*
  Nettnin, E. A., Nguyen, T., Arana, S., Barros Guinle, M., Garcia, C. A., Gibson, E. M., Prolo, L. M.
  2023: 1295030

- **Behavior of glioblastoma brain tumor stem cells following a suborbital rocket flight: reaching the "edge" of outer space.** *NPJ microgravity*
  Garcia, C. A., Suárez-Meade, P., Brooks, M., Bhargav, A. G., Freeman, M. L., Harvey, L. M., Quinn, J., Quiñones-Hinojosa, A.
  2023; 9 (1): 92

- **CDC42BPA::BRAF REPRESENTS A NOVEL FUSION IN DESMOPLASTIC INFANTILE GLIOMA**
  Guinle, M., Nettnin, E. A., Nasajpour, E., Nirschl, J., Garcia, C. A., Vogel, H., Yeom, K., Prolo, L., Petritsch, C.
  OXFORD UNIV PRESS INC.2023

- **BIOPROCESSING OF SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Tran, C., Garcia, C., Lyle, G., Guinle, M., Bagley, B. A., Lancero, H., Gibson, E. E., Schouten, T., Mahaney, K., Vogel, H., Learned, K., Vaske, et al
  OXFORD UNIV PRESS INC.2023

- **THERAPY-INDUCED CHANGES BY BRAF AND MEK INHIBITORS IN BRAF V600E-MUTATED GLIOMA MODELS PROVIDE POTENTIAL NOVEL THERAPEUTIC OPPORTUNITIES**
  Park, J., Lancero, H., Nasajpour, E., Garcia, C., Prolo, L., Grant, G., Petritsch, C.
  OXFORD UNIV PRESS INC.2022: 34

- **BIOPROCESSING OF SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Lyle, G., Lancero, H., Garcia, C., Learned, K., Gibson, E., Tran, C., Schouten, T., Vogel, H., Mahaney, K., Prolo, L., Vaske, O., Grant, et al
  OXFORD UNIV PRESS INC.2022: 232

- **5-Aminolevulinic Acid Imaging of Malignant Glioma.** *Surgical oncology clinics of North America*
  Li, G., Rodrigues, A., Kim, L., Garcia, C., Jain, S., Zhang, M., Hayden-Gephart, M.
  2022; 31 (4): 581-593

- **Development of an Integrated Risk Scale for Prediction of Shunt Placement After Neonatal Intraventricular Hemorrhage**
  Jin, M. C., Parker, J. J., Rodrigues, A., Colon, G. R., Garcia, C. A., Mahaney, K. B., Grant, G. A., Prolo, L. M.
  OXFORD UNIV PRESS INC.2022: 37-38

- **Development of an integrated risk scale for prediction of shunt placement after neonatal intraventricular hemorrhage.** *Journal of neurosurgery. Pediatrics*
  Jin, M. C., Parker, J. J., Rodrigues, A. J., Ruiz Colón, G. D., Garcia, C. A., Mahaney, K. B., Grant, G. A., Prolo, L. M.
  2022: 1-10

- **Functional Characterization of Brain Tumor-Initiating Cells and Establishment of GBM Preclinical Models that Incorporate Heterogeneity, Therapy, and Sex Differences** *MOLECULAR CANCER THERAPEUTICS*
  Garcia, C. A., Bhargav, A. G., Brooks, M., Suarez-Meade, P., Mondal, S. K., Zarco, N., ReFaey, K., Jentoft, M., Middlebrooks, E. H., Snuderl, M., Carrano, A., Guerrero-Cazares, H., Schiapparelli, et al
  2021; 20 (12): 2585-2597

- **An Analysis of Public Interest in Elective Neurosurgical Procedures during the COVID-19 Pandemic through Online Search Engine Trends.** *World neurosurgery*
  Feng, A. Y., Garcia, C. A., Jin, M. C., Ho, A. L., Li, G. n., Grant, G. n., Ratliff, J. n., Skirboll, S. L.
  2021

- **Nanomedicine Revisited: Next Generation Therapies for Brain Cancer** *ADVANCED THERAPEUTICS*
  Bhargav, A. G., Mondal, S. K., Garcia, C. A., Green, J. J., Quinones-Hinojosa, A.
  2020; 3 (10)

- **Poly(ethylene glycol)-Poly(beta-amino ester)-Based Nanoparticles for Suicide Gene Therapy Enhance Brain Penetration and Extend Survival in a Preclinical Human Glioblastoma Orthotopic Xenograft Model** *ACS BIOMATERIALS SCIENCE & ENGINEERING*
  Kim, J., Mondal, S. K., Tzeng, S. Y., Rui, Y., Al-kharboosh, R., Kozielski, K. K., Bhargav, A. G., Garcia, C. A., Quinones-Hinojosa, A., Green, J. J.
  2020; 6 (5): 2943-2955

- **pH-Responsive fluorescent graphene quantum dots for fluorescence-guided cancer surgery and diagnosis** *NANOSCALE*
  Fan, Z., Zhou, S., Garcia, C., Fan, L., Zhou, J.
  2017; 9 (15): 4928-4933
- **A lupus anti-DNA autoantibody mediates autocatalytic, targeted delivery of nanoparticles to tumors** *ONCOTARGET*
  Chen, Z., Patel, J. M., Noble, P. W., Garcia, C., Hong, Z., Hansen, J. E., Zhou, J.
  2016; 7 (37): 59965-59975