



Themistoklis Tsarouchas

Instructor, Psychiatry and Behavioral Sciences - Sleep Medicine

Bio

ACADEMIC APPOINTMENTS

- Instructor, Psychiatry and Behavioral Sciences - Sleep Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- iTPA Translation Innovation Springboard, Edinburgh Innovations (2022)
- Postdoctoral Fellowship, ROCHE (2020)
- Nomination for the Birnstiel Award for Doctoral Research in Molecular Life Sciences, Research Institute of Molecular Pathology (IMP) (2019)
- Research Associate Fellowship, BIOGEN (2018)
- 2nd Poster Prize, EuFishBioMed (2017)
- NC3R's PhD Studentship, National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs) (2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director Outreach Programs, Stanford Inspiring Women in Science and Healthcare (iWISH-Talks) (2025 - present)

Publications

PUBLICATIONS

- **The LncRNA MYRACL Regulates Human Oligodendrocyte Maturation and Myelination.** *Molecular therapy : the journal of the American Society of Gene Therapy*
Tsarouchas, T. M., Vacante, F., Kazakou, N. L., Wagstaff, L., Bennett, M., Zoupi, L., Gibson, E. M., Baker, A. H., Williams, A.
2025
- **Protocol for assessing myelination by human iPSC-derived oligodendrocytes in Shiverer mouse ex vivo brain slice cultures.** *STAR protocols*
Tsarouchas, T. M., Zoupi, L., Williams, A., Gibson, E. M.
2025; 6 (1): 103609
- **Effective Transcriptional Induction of the CARMN/miR-143/145 Complex Locus in Smooth Muscle Cells Using CRISPR Activation.** *Arteriosclerosis, thrombosis, and vascular biology*
Vacante, F., Sanchez-Esteban, S., Tsarouchas, T., Rodor, J., Bennett, M., Carroll, M. S., Beqqali, A., Baker, A. H.
2025
- **C9ORF72 deficiency results in neurodegeneration in the zebrafish retina.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Jaroszynska, N., Salzinger, A., Tsarouchas, T. M., Becker, C. G., Becker, T., Lyons, D. A., MacDonald, R. B., Keatinge, M.
2024

- **Rapid Testing of Gene Function in Axonal Regeneration After Spinal Cord Injury Using Larval Zebrafish.** *Methods in molecular biology (Clifton, N.J.)*
Drake, L. K., Keatinge, M., Tsarouchas, T. M., Becker, C. G., Lyons, D. A., Becker, T.
2023; 2636: 263-277
- **CRISPR gRNA phenotypic screening in zebrafish reveals pro-regenerative genes in spinal cord injury.** *PLoS genetics*
Keatinge, M., Tsarouchas, T. M., Munir, T., Porter, N. J., Larraz, J., Gianni, D., Tsai, H. H., Becker, C. G., Lyons, D. A., Becker, T.
2021; 17 (4): e1009515
- **Dynamic control of proinflammatory cytokines Il-1 β and Tnf- α by macrophages in zebrafish spinal cord regeneration.** *Nature communications*
Tsarouchas, T. M., Wehner, D., Cavone, L., Munir, T., Keatinge, M., Lambertus, M., Underhill, A., Barrett, T., Kassapis, E., Ogryzko, N., Feng, Y., van Ham, T. J., Becker, et al
2018; 9 (1): 4670
- **Wnt signaling controls pro-regenerative Collagen XII in functional spinal cord regeneration in zebrafish.** *Nature communications*
Wehner, D., Tsarouchas, T. M., Michael, A., Haase, C., Weidinger, G., Reimer, M. M., Becker, T., Becker, C. G.
2017; 8 (1): 126
- **Spinal motor neurons are regenerated after mechanical lesion and genetic ablation in larval zebrafish.** *Development (Cambridge, England)*
Ohnmacht, J., Yang, Y., Maurer, G. W., Barreiro-Iglesias, A., Tsarouchas, T. M., Wehner, D., Sieger, D., Becker, C. G., Becker, T.
2016; 143 (9): 1464-74