

Tracy Fischer, PhD
Associate Professor, Tulane University School of Medicine

Biography (brief)

Dr. Tracy Fischer is an Associate Professor in the Department of Microbiology and Immunology at Tulane University School of Medicine and an investigator at the Tulane National Biomedical Research Center. Her research focuses on the role of chronic neuroinflammation in neurodegenerative diseases, with particular emphasis on microglial dysfunction, neurovascular pathology, and blood–brain barrier alterations. Her laboratory integrates histological, immunohistochemical, molecular, and cellular approaches to investigate disease mechanisms in human tissues and experimental models.

Dr. Fischer currently serves on the Council of the Histochemical Society, contributing to grant and abstract reviews and representing the Society at scientific conferences. She recently joined the editorial board of the *Journal of Histochemistry & Cytochemistry*. She has a strong commitment to scientific education, mentorship, and advancing the application of histochemical approaches to understanding disease mechanisms.

Vision statement

I believe the Histochemical Society has an important role in advancing biomedical research by promoting approaches that connect molecular and cellular discoveries to their biological significance within tissues. As new technologies continue to expand our ability to investigate complex biological systems, it is essential that we also preserve and strengthen our appreciation for tissue organization, cellular interactions, and the biological context in which disease processes occur.

During my current term on Council, I have contributed to grant and abstract reviews and represented the Society at scientific conferences. If reelected, I would like to build on this service with a particular emphasis on education and the development of early-career scientists. I believe we should encourage young investigators not only to ask important scientific questions, but also to consider how their findings can be examined and understood at the tissue level. I would also like to support opportunities for interdisciplinary collaboration, methodological innovation, and scientific exchange that broaden the reach and impact of the Society.

My vision is for the Histochemical Society to remain a strong scientific community that advances rigorous tissue-based research while fostering the curiosity, critical thinking, and technical expertise of the next generation of scientists.