



Tazbir Ahmed

Postdoctoral Scholar, Ophthalmology

Bio

BIO

Dr. Tazbir Ahmed is a clinician-scientist with a focus on neuro-ophthalmology and vision science, bringing expertise in translational research, clinical trials, and medical education. He obtained his medical degree and licensure through the Bangladesh Medical and Dental Council and achieved board certification in Ophthalmology from the Bangladesh College of Physicians and Surgeons.

Motivated by a deep interest in ocular neurodegeneration, inflammation, and metabolic eye disorders, Dr. Ahmed pursued a PhD in Ophthalmology at the University of Tokyo School of Medicine. His doctoral research explored the use of biologics, ocular devices, and experimental models of inflammation to investigate retinal and optic nerve changes in glaucoma, optic neuropathies, and age-related visual decline.

Dr. Ahmed's multidisciplinary research integrates preclinical disease models, neuroimaging, ocular histochemistry, omics technologies, and electrophysiological methods to elucidate mechanisms of visual pathway dysfunction. He also leverages data science tools to address key issues in ocular public health.

HONORS AND AWARDS

- Best Presenter Award, Asia-Pacific Academy of Ophthalmology (APAO) Congress (2017)
- MEXT (Monbukagakusho) scholarship, Government of Japan (2017-2023)
- Travel Grant Award, Asia-Pacific Association of Cataract and Refractive Surgeons (APACRS) Conference (2018)
- Travel Grant Award, Asia Pacific Society of Ophthalmic Plastic and Reconstructive Surgery (APSOPRS) Congress (2018)
- People's Choice Award, 3 MT (Three Minute Thesis) Competition by The University of Tokyo and The University of Queensland. (2021)
- Dean's Award Nominee, The University of Tokyo, Japan (2023)
- Best Poster Award, 5th Annual Stanford Optic Disc Drusen Conference (2024)
- Best Poster Award, 6th Annual Stanford Optic Disc Drusen Conference (2025)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Central Councilor, Bangladesh Medical Association (BMA) (2013 - 2015)
- Executive Member, Ophthalmological Society of Bangladesh (OSB) (2017 - 2018)
- Executive Member, MEXT Scholars' Association (MSA), Japan (2018 - 2022)
- Executive Member, Bangladesh Young Ophthalmologists Society (BYOS) (2021 - 2023)
- President, Bangladeshi Students' Association of The University of Tokyo, Japan (2021 - 2023)

- Co-Chair, Stanford University Postdoctoral Association (SURPAS) (2023 - 2024)
- Council Member, Stanford University Postdoctoral Association (SURPAS) (2023 - present)

PROFESSIONAL EDUCATION

- MBBS, The University of Dhaka, Bangladesh , Medicine (2012)
- MCPS, Bangladesh College of Physicians and Surgeons, Bangladesh , Ophthalmology (2016)
- PhD, The University of Tokyo, Japan , Ophthalmology (2023)

STANFORD ADVISORS

- Yaping Liao, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Yaping Liao (4/3/2023)

Publications

PUBLICATIONS

- **Axonal Energy Crisis and Calcium Phosphate Dysregulation as Pathogenesis of Optic Disc Drusen** *AGING AND DISEASE*
Modgil, S., Ahmed, T., Liao, Y.
2024
- **Roles of Sphingosine Kinase and Sphingosine-1-Phosphate Receptor 2 in Endotoxin-Induced Acute Retinal Inflammation.** *Ocular immunology and inflammation*
Ahmed, T., Suzuki, T., Terao, R., Yamagishi, R., Fujino, R., Azuma, K., Soga, H., Ueta, T., Honjo, M., Watanabe, S., Yoshioka, K., Takuwa, Y., Aihara, et al
2023: 1-15
- **Oxidative Stress-Induced Cellular Senescence in Aging Retina and Age-Related Macular Degeneration.** *Antioxidants (Basel, Switzerland)*
Terao, R., Ahmed, T., Suzumura, A., Terasaki, H.
2022; 11 (11)
- **Long-term results of the safety and effectiveness of a novel microshunt in Japanese patients with primary open-angle glaucoma.** *Japanese journal of ophthalmology*
Ahmed, T., Honjo, M., Sakata, R., Fujishiro, T., Shirato, S., Aihara, M.
2022; 66 (1): 33-40
- **Niacinamide protect visual function in optic nerve stroke**
Liu, L., Modgil, S., Shariati, A., Kim, M., Ahmed, T., Wu, H., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Increased oxidative stress and inflammation in human and experimental optic nerve stroke**
Ahmed, T., Liu, L., Wang, Q., Wu, H., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **The health impacts of political unrest in Bangladesh and steps forward.** *Medicine, conflict, and survival*
Polkampally, S., Jain, B., Ahmed, T., Islam, M. T., Bendavid, E.
2025: 1-5
- **Role of methylglyoxal on retinal changes and neuronal loss in a photochemically induced animal model of anterior ischemic optic neuropathy**
Ahmed, T., Shariati, A., Liu, L., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024

- **Cytokine profiles in the aqueous humor following brolocizumab administration for exudative age-related macular degeneration** *GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY*

Terao, R., Obata, R., Okubo, A., Aoki, S., Azuma, K., Ahmed, T., Inoda, S., Hashimoto, Y., Takahashi, R., Yoshida, H., Misawa, M., Takahashi, H., Takahashi, et al

2023

- **Risk Factors and Treatment Strategy for Retinal Vascular Occlusive Diseases.** *Journal of clinical medicine*

Terao, R., Fujino, R., Ahmed, T.

2022; 11 (21)

PRESENTATIONS

- Roles of sphingosine kinase 1 and sphingosine 1-phosphate receptor 2 in uveitis model. - 126th Japan Ophthalmological Congress (4/14/2022 - 4/17/2022)
- Long term results of safety and effectiveness of PRESERFLO® MicroShunt in Japanese patients with primary open angle glaucoma. - 9th World Glaucoma E-Congress (6/30/2021 - 7/3/2021)
- Expectations and Outcomes of Using Toric Intraocular Lens for Astigmatism Correction in Cataract Patients at a University Hospital of Dhaka. - Asia-Pacific Association of Cataract and Refractive Surgeons Conference (APACRS) (7/19/2018 - 7/21/2018)
- Evaluation of current postgraduate residency training program in a Bangladeshi medical university based on student perceptions. - World Federation for Medical Education World Conference (4/7/2019 - 4/10/2019)
- A study of sports related ocular injuries among children at a tertiary medical care center in Dhaka, Bangladesh - Asia Pacific Society of Ophthalmic Plastic & reconstructive Surgery (APSOPRS) (12/15/2018 - December 16, 2018)