

# Stanford

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## Aditi Swarup

Postdoctoral Scholar, Ophthalmology

### Bio

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#### STANFORD ADVISORS

- Albert Wu, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **The Use of Panitumumab-IRDye800CW in a Novel Murine Model for Conjunctival Squamous Cell Carcinoma.** *Translational vision science & technology*  
Youn, G. M., Case, A. G., Jarin, T., Li, B., Swarup, A., Naranjo, A., Bou-Khalil, C., Yao, J., Zhou, Q., Hom, M. E., Rosenthal, E. L., Wu, A. Y.  
2022; 11 (7): 23
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*  
Jones, R. C., Karkanas, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al  
2022; 376 (6594): eabl4896
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*  
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al  
2022
- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*  
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al  
2022
- **PNP Hydrogel Prevents Formation of Symblephara in Mice After Ocular Alkali Injury.** *Translational vision science & technology*  
Swarup, A., Grosskopf, A. K., Stapleton, L. M., Subramaniam, V. R., Li, B., Weissman, I. L., Appel, E. A., Wu, A. Y.  
2022; 11 (2): 31
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*  
Olivieri, J., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.  
2021; 10
- **Molecular mechanisms and treatments for ocular symblephara.** *Survey of ophthalmology*  
Swarup, A., Ta, C. N., Wu, A. Y.  
2021
- **Orbital Fractures: Principles, Concepts and Management.** *Ophthalmic plastic and reconstructive surgery*  
Swarup, A., Wu, A. Y.  
2021; 36 (4): 425

- **Orbital Fractures: Principles, Concepts and Management (Book Review)** *OPHTHALMIC PLASTIC AND RECONSTRUCTIVE SURGERY*  
Book Review Authored by: Swarup, A., Wu, A. Y.  
2020; 36 (4): 425
- **Loss of MPC1 reprograms retinal metabolism to impair visual function** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Grenell, A., Wang, Y., Yam, M., Swarup, A., Dilan, T. L., Hauer, A., Linton, J. D., Philp, N. J., Gregor, E., Zhu, S., Shi, Q., Murphy, J., Guan, et al  
2019; 116 (9): 3530–35
- **Modulating GLUT1 expression in retinal pigment epithelium decreases glucose levels in the retina: impact on photoreceptors and Muller glial cells** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*  
Swarup, A., Samuels, I. S., Bell, B. A., Han, J. S., Du, J., Massenzio, E., Abel, E., Boesze-Battaglia, K., Peachey, N. S., Philp, N. J.  
2019; 316 (1): C121–C133
- **Modulation of GLUT1 expression in the RPE impacts outer segment renewal and results in photoreceptor degeneration**  
Swarup, A., Samuels, I. S., Soto, J., Abel, E., Peachey, N., Philp, N. J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Deletion of GLUT1 in mouse lens epithelium leads to cataract formation** *EXPERIMENTAL EYE RESEARCH*  
Swarup, A., Bell, B. A., Du, J., Han, J. S., Soto, J., Abel, E., Bravo-Nuevo, A., FitzGerald, P. G., Peachey, N. S., Philp, N. J.  
2018; 172: 45–53
- **Loss of GLUT1 in the retinal pigment epithelium does not diminish its function, differentiation or polarity**  
Samuels, I. S., Swarup, A., Beight, C., Han, J. S., Soto, J., Abel, E., Peachey, N. S., Philp, N. J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2017
- **Microtubule-associated protein 1 light chain 3 (LC3) isoforms in RPE: expression and function**  
Dhingra, A., Reyes-Reveles, J., Alexander, D., Sharp, R. C., Swarup, A., Kim, H., Sparrow, J. R., Boesze-Battaglia, K.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2017
- **Deletion of GLUT1 in mouse lens epithelium leads to cataract formation**  
Swarup, A., Bravo-Nuevo, A., Soto, J., Abel, E., Bell, B. A., Peachey, N., FitzGerald, P. G., Philp, N. J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2017
- **Inhibition of miR-21 rescues liver regeneration after partial hepatectomy in ethanol-fed rats** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*  
Juskeviciute, E., Dippold, R. P., Antony, A. N., Swarup, A., Vadigepalli, R., Hoek, J. B.  
2016; 311 (5): G794–G806
- **Adiponectin fine-tuning of liver regeneration dynamics revealed through cellular network modelling** *JOURNAL OF PHYSIOLOGY-LONDON*  
Correnti, J. M., Cook, D., Aksamitiene, E., Swarup, A., Ogunnaik, B., Vadigepalli, R., Hoek, J. B.  
2015; 593 (2): 365–83
- **Adiponectin fine-tuning of liver regeneration dynamics revealed through cellular network modeling.** *The Journal of physiology*  
Correnti, J. M., Cook, D., Aksamitiene, E., Swarup, A., Ogunnaik, B., Vadigepalli, R., Hoek, J. B.  
2014
- **Metabolic network reconstruction, growth characterization and C-13-metabolic flux analysis of the extremophile Thermus thermophilus HB8** *METABOLIC ENGINEERING*  
Swarup, A., Lu, J., DeWoody, K. C., Antoniewicz, M. R.  
2014; 24: 173–80
- **Pharmacological ceramide reduction alleviates alcohol-induced steatosis and hepatomegaly in adiponectin knockout mice** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*  
Correnti, J. M., Juskeviciute, E., Swarup, A., Hoek, J. B.  
2014; 306 (11): G959–G973
- **miR-21 inhibition overcomes ethanol suppression of rat liver regeneration**  
Juskeviciute, E., Dippold, R. P., Swarup, A., Hoek, J. B.  
FEDERATION AMER SOC EXP BIOL.2013

- **Substrate Oxidation Control of Respiratory Rates in Primary Hepatocytes Anil Noronha Antony**  
Antony, A., Moffat, C., Swarup, A., Seifert, E., Hoek, J. B.  
CELL PRESS.2013: 302A
- **Thermus thermophilus: A model thermophilic organism for biofuels production**  
Lu, J., Swarup, A., DeWoody, K., Antoniewicz, M. R.  
AMER CHEMICAL SOC.2012
- **Metabolic network reconstruction and C-13-metabolic flux analysis for the extremophile Thermus thermophilus HB8**  
Antoniewicz, M. R., Swarup, A., Dewoody, K.  
AMER CHEMICAL SOC.2011