

Stanford



Brandon Tyler Wesley, PhD

MD Student with Scholarly Concentration in Molecular Basis of Medicine / Surgery, expected graduation Spring 2026

Bio

HONORS AND AWARDS

- AATS "Member for a Day" Award, American Association of Thoracic Surgeons (2025)
- Gold Humanism Honor Society Member, Gold Humanism Honor Society (2025)
- Stanford CVI Boring Trust Research Award, Stanford Cardiovascular Institute (2024-2025)
- Gates Cambridge Scholarship, Bill and Melinda Gates Foundation (2016-2020)
- Robert D. Lynch Engineering Award (most prestigious award offered by the College of Engineering), Villanova University (2016)

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, Villanova University (2016)
- Doctor of Philosophy, University of Cambridge (2021)
- PhD, University of Cambridge , Surgery (2021)
- BS, Villanova University , Chemical engineering, minors in biology and bioengineering (2016)

Research & Scholarship

LAB AFFILIATIONS

- Joseph Woo, Woo lab (3/9/2022)

Publications

PUBLICATIONS

- **Four Decades of Progress in Heart-Lung Transplantation: 271 Cases at a Single Institution.** *The Journal of thoracic and cardiovascular surgery*
Elde, S., Baccouche, B. M., Mullis, D. M., Leipzig, M. M., Deuse, T., Krishnan, A., Fawad, M., Dale, R., Walsh, S., Padilla-Lopez, A., Wesley, B., He, H., Yajima, et al
2024
- **Single-cell atlas of human liver development reveals pathways directing hepatic cell fates** *NATURE CELL BIOLOGY*
Wesley, B. T., Ross, A. D. B., Muraro, D., Miao, Z., Saxton, S., Tomaz, R. A., Morell, C. M., Ridley, K., Zacharis, E. D., Petrus-Reurer, S., Kraiczky, J., Mahbubani, K. T., Brown, et al
2022; 24 (10): 1487-+
- **Generation of functional hepatocytes by forward programming with nuclear receptors** *ELIFE*
Tomaz, R. A., Zacharis, E. D., Bachinger, F., Wurmser, A., Yamamoto, D., Petrus-Reurer, S., Morell, C. M., Dziedzicka, D., Wesley, B. T., Geti, I., Segeritz, C., de Brito, M. C., Chhatriwala, et al
2022; 11

- **TGF beta signalling is required to maintain pluripotency of human naive pluripotent stem cells** *ELIFE*
Osnato, A., Brown, S., Krueger, C., Andrews, S., Collier, A. J., Nakanoh, S., Londono, M., Wesley, B. T., Muraro, D., Brumm, A., Niakan, K. K., Vallier, L., Ortmann, et al
2021; 10
- **Cholangiocyte organoids regenerate human bile ducts**
Sampaziotis, F., Muraro, D., Tysoe, O. C., Sawiak, S., Beach, T., Godfrey, E., Upponi, S., Wesley, B., Brevini, T., Mahbubani, K., Berntsen, N., Mulcahy, V., Crick, et al
ELSEVIER.2021: S233-S234
- **Cholangiocyte organoids can repair bile ducts after transplantation in the human liver** *SCIENCE*
Sampaziotis, F., Muraro, D., Tysoe, O. C., Sawiak, S., Beach, T. E., Godfrey, E. M., Upponi, S. S., Brevini, T., Wesley, B. T., Garcia-Bernardo, J., Mahbubani, K., Canu, G., Gieseck, et al
2021; 371 (6531): 839+
- **Regional Differences in Human Biliary Tissues and Corresponding In Vitro-Derived Organoids** *HEPATOLOGY*
Rimland, C. A., Tilson, S. G., Morell, C. M., Tomaz, R. A., Lu, W., Adams, S. E., Georgakopoulos, N., Otaizo-Carrasquero, F., Myers, T. G., Ferdinand, J. R., Gieseck, R. L., Sampaziotis, F., Tysoe, et al
2021; 73 (1): 247-267
- **Naive Pluripotent Stem Cells Exhibit Phenotypic Variability that Is Driven by Genetic Variation** *CELL STEM CELL*
Ortmann, D., Brown, S., Czechanski, A., Aydin, S., Muraro, D., Huang, Y., Tomaz, R. A., Osnato, A., Canu, G., Wesley, B. T., Skelly, D. A., Stegle, O., Choi, et al
2020; 27 (3): 470+
- **Cholangiocyte organoids are plastic and their identity is controlled by their local microenvironment**
Sampaziotis, F., Muraro, D., Tysoe, O. C., Beach, T., Sawiak, S., Godfrey, E., Upponi, S., Wesley, B., Garcia-Bernardo, J., Brevini, T., Mahbubani, K., Cannu, G., Gieseck, et al
ELSEVIER.2020: S112