Maxwell G. Hunt

Maxwell.G.Hunt@Rice.edu Biosciences Research Center (BRC) 840

EDUCATION:

Rice University, Houston, TX 2020-Present
Ph.D. Student in Systems, Synthetic, and Physical Biology (SSPB)
Tabor Lab; Microbial ecology of the human urogenital tract

Tulane University, New Orleans, LA 2018
B.S. in Biological Chemistry, B.A. in English Literature; **Summa cum laude**

HONORS, PRIZES, AWARDS, and FELLOWSHIPS:

Tulane Chemistry Department Award for Excellence in Undergraduate Research 2018
Phi Beta Kappa Member 2018
Paul Tulane Award **(Full Tuition Scholarship)** 2014-2018
National Merit Scholarship 2014-2018
Newcomb-Tulane College (NTC) Grant for Research at Thomas Jefferson University 2015
NTC Grant for Naval Academy Science and Engineering Conference (NASEC) 2015

RESEARCH EXPERIENCE:

Research Assistant, **Gryphon Scientific**, Takoma Park, MD 2018-2019
- ◊ Project management and data analytics for contracts in protein engineering, environmental safety preparedness, CBRNE defense, and science-based policy

Research Assistant, **Hospital, University of Pennsylvania**, Philadelphia, PA 2017
- ◊ Compiled the institution's most comprehensive data set for Valve Sparing Aortic Root Replacement (VSRR) surgical outcomes

Student Investigator, **LSU Health Sciences Center**, New Orleans, LA 2015-2016
- ◊ Conducted translational research on a novel method for adipose tissue culture for "organ-on-a-chip" in-vitro research

Research Intern, **Thomas Jefferson University**, Philadelphia, PA 2015
- ◊ Explored fundamental biology of the nucleus pulposis of the human intervertebral disc, with a focus on describing cellular activity during disc degeneration

NON-RESEARCH EXPERIENCE:

Graduate Fellow, Rice University Center for Civic Leadership, Houston, TX 2021
- ◊ Support programming that enables students to understand the intersections between STEM and civic engagement

Freelance Editor, **Cactus Communications,** New Orleans, LA 2020
- ◊ Edited Cellular/Molecular Biology manuscripts for scientific journals

President, **Tulane Science and Engineering Honor Society,** New Orleans, LA 2016-2018
- ◊ Coordinated monthly lectures by Tulane faculty to encourage undergraduate participation in research and organized events for Tulane Alumni Association and the School of Science and Engineering Board of Directors

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Development Coordinator, **The Gulf Restoration Network,** New Orleans, LA 2018

- ◊ Generated multimedia content to communicate environmental restoration activities in the Gulf of Mexico to the local community

Writing Intern, **Pearl Medical Publishing, LLC,** New York, NY 2018

- ◊ Conducted literature reviews on hundreds of topics, ranging from organic chemistry to human physiology, and produced web pages, blog posts, etc. to communicate information to layman audiences

Development Intern, **Louisiana Language Access Coalition,** New Orleans, LA 2017

- ◊ Prepared organizational documents for transition to 501(c)(3) status and assisted development committee

Marketing Intern, **Avidas Pharmaceuticals**, Doylestown, PA 2013-2016

- ◊ Produced branded content for marketing of proprietary technology, assisted in analysis of clinical research data, and coordinated scientific communication efforts

PUBLICATIONS:

- ❖ Siki, M.A., Habertheuer, A., Bavaria, J.E., Komlo, C., Hunt, M., Freas, M.A., Milewski, R.K., Desai, N.D., Szeto, W.Y., and Vallabhajosyula, P. (2020). Two different geometric orientations for aortic neoroot creation in bicuspid aortic valve repair with root reimplantation. The Journal of Thoracic and Cardiovascular Surgery *160*, 47–57.
- ❖ Lau, F.H., Vogel, K., Luckett, J.P., Hunt, M., Meyer, A., Rogers, C.L., Tessler, O., Dupin, C.L., St. Hilaire, H., and Islam, K.N. (2018). Sandwiched white adipose tissue: a microphysiological system of primary human adipose tissue. Tissue Engineering Part C: Methods *24*, 135–145.
- ❖ Scahill, S.D., Hunt, M., Rogers, C.L., and Lau, F.H. (2018). A Microphysiologic Platform for Human Fat: Sandwiched White Adipose Tissue. Journal of Visualized Experiments: JoVE.
- ❖ Hunt, M., Kreb, R. New Topical Technology Addresses Vitamin D Oral Malabsorption Issues (Poster). The Obesity Society (TOS) Annual Assembly (2016).
- ❖ Tian, Y., Yuan, W., Li, J., Wang, H., Hunt, M.G., Liu, C., Shapiro, I.M., and Risbud, M.V. (2016). TGFβ regulates Galectin-3 expression through canonical Smad3 signaling pathway in nucleus pulposus cells: implications in intervertebral disc degeneration. Matrix Biology *50*, 39–52.