



TYLER HULETT

Oregon Health & Science University, Molecular Microbiology & Immunology

Degrees:

B.S. in Biochemistry, University of Notre Dame

Scholar Award Donors:

Carol Ehlen; James R. Kuse Family Foundation

About the Scholar:

Tyler is a native Oregonian who grew up along the McKenzie River east of Eugene. As an undergraduate at the University of Notre Dame, he was inspired by science and business professors who improved the lives of others through their work – including one who got a treatment FDA approved for a rare disease. These mentoring relationships led him to choose medical science as a career. He came to Portland for graduate school to be closer to his family and the outdoors. In his free time he enjoys fishing, kayaking, camping, and golfing.

Benefits to Society:

Tyler is part of a group of cancer immunology researchers at the Providence Cancer Center. In his thesis work, he is developing ways to teach the body's own immune system how to fight tumors. The immune system identifies cancer cells by broken proteins shown on their surface. Tyler's work involves isolating and identifying these proteins that the immune system sees, testing vaccines made from them, and finding out how they compare to the rest of a cancer cell's proteins. By better understanding how the immune system sees cancer, Tyler's team hopes to design improved cancer vaccines.

Awards and Honors:

Featured in Notre Dame Magazine article "From Lab to Life"

PaceGlobal People's Choice Award - McCloskey Business Plan Competition 2010

First Runner-Up - McCloskey Business Plan Competition 2010

Publications and Posters:

C. Cosner, V. Iska, A. Chatterjee, J. Markiewicz, S. Corden, J. Lofstedt, T. Ankner, J. Richer, T. Hulett, D. Schauer, O. Wiest, P. Helquist. An Evolution of Concise and Flexible Synthetic Strategies for Trichostatic Acid and the Potent Histone Deacetylase Inhibitor Trichostatin A *Eur. J. Org. Chem.* 162-172 (2013).

Z.T. Wehrmann, T.W. Hulett, K.L. Huegel, K.T. Vaughan, O. Wiest, et al., Quantitative Comparison of the Efficacy of Various Compounds in Lowering Intracellular Cholesterol Levels in Niemann-Pick Type C Fibroblasts *PLoS ONE*, 7, e48561 (2012).

A. Chatterjee, J. Richer, T. Hulett, V. Iska, O. Wiest, P. Helquist, An Efficient Synthesis of (±)-Trichostatic Acid and Analogues: A New Route to (±)-Trichostatin A *Org. Lett.*, 12 832–834 (2010).