



Matthew Seasock

Immunology & Microbiology Graduate Program

Clinical Translational Research Program

Baylor College of Medicine

Let-7 microRNA controls AT2 Progenitor Stemness and Prevents Interstitial Lung Disease

Matthew Seasock received his Bachelor of Science in Cell & Molecular Neuroscience at Temple University. His undergraduate research focused on traumatic brain injuries and the blood-brain barrier, and he published a method for modeling the blood-brain barrier by growing micro-vessels on a microfluidic chip. This bioengineered "brain-on-chip" was used to study the development of the fetal brain during injury. Matthew then worked as a technician and lab manager for 3 years in a genetics lab at the University of Pennsylvania Perelman School of Medicine. During this time he grew the largest human kidney biorepository in North America in addition to his research on chronic kidney disease. He published 5 high impact papers which included two genetic screens for risk alleles in diabetic nephropathy in *Nature Medicine* and *Nature Genetics*. Now Matthew is a 4th year graduate student in the Immunology & Microbiology Program at BCM in Dr. Antony Rodriguez's lab where he studies how microRNAs affect pulmonary stem cells, the innate immune system, and pulmonary fibrosis. During his time at BCM, he won Best Basic Science Poster at the Department of Medicine Housestaff Symposium. He received a T32 award and a certificate of added qualification for Clinical Translation Research.