

Lung transplant/Artificial lung

Bart Griffith (BGriffith@som.umaryland.edu):



Dr. Griffith's research focuses on development of an artificial lung and mechanical blood pumps, lung transplantation, and advanced treatment of ARDS with anti-inflammatory treatment, including stem cells and ECMO.

Highlighted Publications:

1. Wu ZJ, Gartner MS, Litwak KN, and **Griffith, BP**. Progress toward an ambulatory pump-lung. *J Thorac Cardiovasc Surg* 2005;130(4):973-8
2. **Griffith BP**. Children are not necessarily "small" adults: The growing field of miniaturized mechanical circulatory support. *Editorial Commentary* 2010 <http://www.jhltonline.org>
3. Iacono A, Groves S, Garcia J, **Griffith B**. Lung transplantation following 107 days of extracorporeal membrane oxygenation. *Eur J Cardiothorac Surg* 2010 Apr;37(4):969-71.
4. Garcia JP, Kon ZN, Evans C, Wu Z, Iacono AT, McCormick B and **Griffith BP**. Ambulatory veno-venous extracorporeal membrane oxygenation: Innovations and pitfalls. *J Thorac Cardiovasc Surg* 2011 Oct;142(4):755-61

Links:

Med School faculty page: <http://www.medschool.umaryland.edu/profiles/Griffith-Bartley/>
PubMed

publications: <https://www.ncbi.nlm.nih.gov/sites/myncbi/bartley.griffith.1/bibliography/41145483/public/?sort=date&direction=ascending>.

Rob Reed (rreed@som.umaryland.edu):



Dr. Reed's clinical and translational research focusses on COPD, including potential mechanisms of overlap with atherosclerosis, and lung transplantation including optimization of donor-recipient matching. Dr. Reed participates in several national and multinational networks involving COPD research, including the COPD clinical research network (CCRN), the Pulmonary Trials Collaborative (PTC), and the Trans-Omics for Precision Medicine (TOPMed) network. Dr. Reed is part of a multidisciplinary personalized medicine group that studies gene linkages in the Amish of Lancaster County. As part of this work Dr. Reed established a mobile pulmonary function laboratory which has been used to phenotype ~5000 participants, and he serves as the pulmonary liaison to the Trans-Omics for Precision Medicine (TOPMED) pulmonary working groups.

Highlighted Publications:

1. Reed RM, Cabral H, Dransfield M, Eberlein M, Merlo C, Mulligan MJ, Netzer G, Sanchez PG, Scharf SM, Sin DD, Celli BR. Survival of Lung Transplant Candidates with COPD: BODE Reconsidered. *Chest*, In press
2. Nugent, K. L., A. Million-Mrkva, J. Backman, S. H. Stephens, Reed, RM, P. Kochunov, T. I. Pollin, A. R. Shuldiner, B. D. Mitchell, and L. E. Hong. Familial Aggregation of Tobacco Use Behaviors in Amish Men. *Nicotine.Tob.Res.* 2014; 16(7):923-930. PMID 24583363
3. Reed RM, A. Amoroso, S. Hashmi, S. Kligerman, A. R. Shuldiner, B. D. Mitchell, and G. Netzer. 2014. Calcified Granulomatous Disease: Occupational Associations and Lack of Familial Aggregation. *Lung*. PMID 25038755
4. Reed RM, Reed AW, McArdle PF, Miller M, Pollin TI, Shuldiner AR, Steinle NI, Mitchell, BD. Vitamin and Supplement Use in the Old Order Amish: Gender-specific prevalence and associations with use. *JAND*. 2014; DOI 10.1016/j.jand.2014.08.020. PMID 25316108
5. Reed RM, Dransfield MT, Eberlein M, Miller M, Netzer G, Pavlovich M, Pollin TI, Scharf SM, Shuldiner AR, Sin D, Mitchell BD. Gender differences in first and secondhand smoke exposure, spirometric lung function and cardiometabolic health in the old order Amish: A novel population without female smoking. *PLoS One* 2017;12(3):e0174354. PMID 28362870

Links:

Med School faculty page: <http://www.medschool.umaryland.edu/profiles/Reed-Robert/>

PubMed

publications: <https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/44068698/?sort=date&direction=descending>