



## Johannes Antonius Jacobus Moonen

Postdoctoral Research Fellow, Cardiology

### Bio

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Rijksuniversiteit Groningen (2013)
- Doctor of Medicine, Rijksuniversiteit Groningen (2011)
- Master of Science, Rijksuniversiteit Groningen (2006)

#### STANFORD ADVISORS

- Marlene Rabinovitch, Postdoctoral Research Mentor
- Marlene Rabinovitch, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Upregulation of HERV-K is Linked to Immunity and Inflammation in Pulmonary Arterial Hypertension.** *Circulation*  
Saito, T., Miyagawa, K., Chen, S. Y., Tamosiuniene, R., Wang, L., Sharp, O., Samayoa, E., Harada, D., Moonen, J. A., Cao, A., Chen, P. I., Hennigs, J. K., Gu, et al  
2017
- **In Pulmonary Arterial Hypertension, Reduced BMPR2 Promotes Endothelial-to-Mesenchymal Transition via HMGA1 and Its Target Slug** *CIRCULATION*  
Hopper, R. K., Moonen, J. A., Diebold, I., Cao, A., Rhodes, C. J., Tojais, N. F., Hennigs, J. K., Gu, M., Wang, L., Rabinovitch, M.  
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- **FGF2 inhibits endothelial-mesenchymal transition through microRNA-20a-mediated repression of canonical TGF-beta signaling** *JOURNAL OF CELL SCIENCE*  
Correia, A. C., Moonen, J. A., Brinker, M. G., Krenning, G.  
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- **Endothelial Plasticity: Shifting Phenotypes through Force Feedback.** *Stem cells international*  
Krenning, G., Barauna, V. G., Krieger, J. E., Harmsen, M. C., Moonen, J. A.  
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- **Endothelial-to-mesenchymal transition contributes to fibro-proliferative vascular disease and is modulated by fluid shear stress** *CARDIOVASCULAR RESEARCH*  
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- **Erk5 inhibits endothelial migration via KLF2-dependent down-regulation of PAK1** *CARDIOVASCULAR RESEARCH*  
Komaravolu, R. K., Adam, C., Moonen, J. A., Harmsen, M. C., Goebeler, M., Schmidt, M.  
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- **The flow dependency of Tie2 expression in endotoxemia** *INTENSIVE CARE MEDICINE*  
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2013; 39 (7): 1262-1271
- **IL-1 $\beta$  and TGF $\beta$ 2 synergistically induce endothelial to mesenchymal transition in an NF $\kappa$ B-dependent manner.** *Immunobiology*  
Maleszewska, M., Moonen, J. A., Huijkman, N., van de Sluis, B., Krenning, G., Harmsen, M. C.  
2013; 218 (4): 443-454
- **Cellular plasticity: the good, the bad, and the ugly? Microenvironmental influences on progenitor cell therapy** *CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*  
Moonen, J. A., Harmsen, M. C., Krenning, G.  
2012; 90 (3): 275-285
- **Endothelial progenitor cells give rise to pro-angiogenic smooth muscle-like progeny** *CARDIOVASCULAR RESEARCH*  
Moonen, J. A., Krenning, G., Brinker, M. G., Koerts, J. A., van Luyn, M. J., Harmsen, M. C.  
2010; 86 (3): 506-515
- **Pleiotropism of Adiponectin Inflammation, Neovascularization, and Fibrosis** *CIRCULATION RESEARCH*  
Krenning, G., Moonen, J. A., Harmsen, M. C.  
2009; 104 (9): 1029-1031
- **Generating New Blood Flow: Integrating Developmental Biology and Tissue Engineering** *TRENDS IN CARDIOVASCULAR MEDICINE*  
Krenning, G., Moonen, J. A., van Luyn, M. J., Harmsen, M. C.  
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- **Vascular smooth muscle cells for use in vascular tissue engineering obtained by endothelial-to-mesenchymal transdifferentiation (EnMT) on collagen matrices** *BIOMATERIALS*  
Krenning, G., Moonen, J. A., van Luyn, M. J., Harmsen, M. C.  
2008; 29 (27): 3703-3711
- **Reduced number and impaired function of circulating progenitor cells in patients with systemic lupus erythematosus** *ARTHRITIS RESEARCH & THERAPY*  
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