

# MMI Recruitment Seminar

Ekaterina K. Koltsova, M.D., Ph.D.

**Tuesday, November 12, 2019**

**9:30 a.m.**

**Genome and Biomedical Sciences Auditorium Room 1005**

## “Inflammation in cardiovascular diseases and cancer”

Dr. Koltsova's research interests are to connect immunity, inflammation, and cytokine signaling pathways with pathogenesis of cardiovascular diseases, such as atherosclerosis and aortic abdominal aneurysm. She has extensive training in cytokine biology, immunology and mouse models of cardiovascular diseases. She has published several papers on immune and inflammation-mediated mechanisms regulating atherosclerosis. She has excellent resources, including a variety of cutting-edge mouse models (either obtained from collaborators or generated in the lab) and techniques to drive and successfully complete projects, which connect innate and adaptive immunity with the progression of metabolic diseases, obesity and atherosclerosis.

### Publications

Fatkhullina AR1, Peshkova IO1, Dzutsev A2, Aghayev T1, McCulloch JA2, Thovarai V3, Badger JH2, Vats R4, Sundd P4, Tang HY5, Kossenkov AV6, Hazen SL7, Trinchieri G2, Grivennikov SI8, Koltsova EK9. An Interleukin-23-Interleukin-22 Axis Regulates Intestinal Microbial Homeostasis to Protect from Diet-Induced Atherosclerosis. *Immunity*. 2018 Nov 20;49(5):943-957.e9. doi: 10.1016/j.immuni.2018.09.011. Epub 2018 Oct 30.

Koltsova EK1, Garcia Z, Chodaczek G, Landau M, McArdle S, Scott SR, von Vietinghoff S, Galkina E, Miller YI, Acton ST, Ley K. Dynamic T cell-APC interactions sustain chronic inflammation in atherosclerosis. *J Clin Invest*. 2012 Sep;122(9):3114-26. doi: 10.1172/JCI61758. Epub 2012 Aug 13.



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**Ekaterina K. Koltsova, M.D., Ph.D.**  
Associate Professor  
Blood Cell Development and  
Function Program  
Fox Chase Cancer Center

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Medical Microbiology &  
Immunology  
School of Medicine

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