



### [Position for a PhD student in vascular immunity/inflammation](#)

**Site :** Centre de recherche, Hôpital Maisonneuve-Rosemont et Département de pathologie et biologie cellulaire  
Faculté de Médecine, Université de Montréal,  
Montreal City, Province of Quebec, Canada

**Laboratory of:** **Dr. Janos G. Filep**

**Web site:** <http://www.patho.umontreal.ca> or <http://recherche.maisonneuve-rosemont.org>

**Research themes:** **vascular immunity/inflammation, apoptosis, regulation of the resolution of inflammation**

#### **Project description:**

The main research themes of my laboratory are:

- Role of C-reactive protein in the regulation of leukocyte, platelet and endothelial cell function. Role of CRP in the development of acute coronary artery disease. Structure-function studies on how changes in CRP structure affect expression of pro- or anti-inflammatory actions.
- TLR-9 signaling in endothelial cells and leukocytes. Role of bacterial DNA in the development of sepsis.
- Regulation of constitutive neutrophil apoptosis.
- Studies on endogenous lipids with anti-inflammatory and pro-resolution actions.
- Regulation of the resolution of acute inflammation.

#### **References:**

El Kebir D, et al. *J Immunol* 2007;179:616-622. El Kebir D, et al. *Circ Res* 2008;103:352-359. El Kebir D, et al. *J Immunol* 2009; 182:4386-4394. Filep JG. *Circ Res* 2009;105:109-111. El Kebir D, et al. *Am J Respir Crit Care Med* 2009;180:311-319. Fotouhi-Ardakani N, et al. *Am J Respir Crit Care Med* 2010;182:341-350. El Kebir D & Filep JG. *The Scientific World Journal* 2010;10:1731-1748.

#### **Disciplines/ Qualifications:**

Candidates should have a formal training in cellular and molecular biology, immunology, leukocyte or vascular biology or a related discipline, have excellent organizational, interpersonal, and communication skills, and have a strong interest in innate immunity and cardiovascular diseases, acute coronary artery disease and sepsis in particular.

#### **Contact:**

Applicants should submit a resume, university records, a short statement of research interests, TOEFL results and two letters of recommendation to Dr Janos G. Filep by email ([janos.g.filep@umontreal.ca](mailto:janos.g.filep@umontreal.ca)), if possible in one .pdf document.

**Collaboration: Collaboration is possible with a former supervisor or another researcher in that field. Please contact me.**