

Graduate student position

Translation Research Lab, Centre de recherche de l'Hôpital Maisonneuve-Rosemont (CRHMR),
Université de Montréal, Montréal, Qc, Canada

Contact info : Dr. Denis-Claude Roy or Dr. Vibhuti Dave

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Start date: Immediately

Description

Applications are invited from highly motivated candidates for two graduate student and a postdoctoral positions in our laboratory at Centre de Recherche Hopital Maisonneuve-Rosemont, (CRHMR; affiliated to U de Montreal). We employ wide variety of molecular, cellular, biochemical, flow cytometry and microscopy techniques to study in vitro expansion/differentiation of hematopoietic stem cells, role of mesenchymal stem cells in wound healing and development/function of T cells of human and mouse origin. The research projects pertain to study of wound healing property of mesenchymal stem cells in a rat model of glaucoma and role of transcription factors in shaping CD4/CD8 lineage choice and mature T cell functions in immune disorders.

Interested applicants must have strong background in molecular and cellular techniques, excellent organizational and communication (French and English) skills and strong work ethics. Knowledge of tissue culture and molecular techniques is must. Ability to handle mice/rat is a plus.

Qualifications

Interested applicants must have bachelor/master degree with strong GPA (3.5/4) for graduate position and Ph.D. in immunology/biology for postdoc position, and solid background in molecular and cellular techniques, excellent organizational and communication (French and English) skills and strong work ethics. Knowledge of tissue culture and molecular techniques is must. Ability to handle mice/rat is a plus.

Other details

The CRHMR offers dynamic working environment for graduate students and postdoctoral fellows with access to state of art core facilities. The center offers competitive bursaries to students with outstanding academic achievement. Application must include CV (including GPA) and 2 page research experience. Send application as a single pdf file to Vibhuti Dave at davevibhuti@gmail.com

Relevant publications

Medium conditioned with mesenchymal stromal cell-derived osteoblasts improves the expansion and engraftment properties of cord blood progenitors. Dumont N, Boyer L, Émond H, Celebi-Saltik B, Pasha R, Bazin R, Mantovani D, Roy DC, Pineault N. Exp Hematol. 2014 Sep;42(9):741-52

Inability of HOXB4 to enhance self-renewal of malignant B cells: favorable profile for the expansion of autologous hematopoietic stem cells. Fournier M, Savoie-Rondeau I, Larochelle F, Hassawi M, Shestakova EA, Roy DC, Bijl JJ. *Exp Hematol*. 2014 Jul;42(7):526-35.e4

Transplantation of mesenchymal stem cells promotes tissue regeneration in a glaucoma model through laser-induced paracrine factor secretion and progenitor cell recruitment. Manuguerra-Gagné R, Boulos PR, Ammar A, Leblond FA, Krosi G, Pichette V, Lesk MR, Roy DC. *Stem Cells*. 2013 Jun;31(6):1136-48

Individual and synergistic cytokine effects controlling the expansion of cord blood CD34(+) cells and megakaryocyte progenitors in culture. Pineault N, Cortin V, Boyer L, Garnier A, Robert A, Thérien C, Roy DC. *Cytotherapy*. 2011 Apr;13(4):467-80

Photodepletion differentially affects CD4+ Tregs versus CD4+ effector T cells from patients with chronic graft-versus-host disease. Bastien JP, Krosi G, Therien C, Rashkovan M, Scotto C, Cohen S, Allan DS, Hogge D, Egeler RM, Perreault C, Roy DC. *Blood*. 2010 Dec 2;116(23):4859-69.