



**[Position for a PhD student in organ transplantation or immunopharmacology.](#)**

**Site :** Laboratoire de chirurgie expérimentale,  
Hôpital Notre-Dame, CHUM, Département de chirurgie  
Faculté de Médecine, Université de Montréal,  
Montreal City, Province of Quebec, Canada

**Laboratory of :** **Dr. Chen, Huifang, MD., PhD., chercheur titulaire de chirurgie**

**web site:** [www.hchen-transplantation.com](http://www.hchen-transplantation.com)

**Laboratory research theme:** Transplantation, new immunosuppressants, microsurgery, immunopharmacology

**Project description:**

To evaluate the new generation of immunosuppressants in blockage of costimulation pathway (signal 2) like anti-CD40 antibody or CTLA4-Ig, and in blockage of JAK-STAT signalling pathway (signal 3), like JAK3 inhibitors, and agonists of S1P & G-protein coupled receptors signal pathway, S1P-R-Agonists.

**References :**

1. Qi, S., Xu, D., Peng, J., Wu, J., Vu, MD., Bekersky, I., Fitzsimmons, WE., Peets, J., Sehgal, S, Dalozé, P., **Chen, H**: Effect of tacrolimus (FK506) and sirolimus (RAPA) mono- and combination-therapy in prolongation of renal allograft survival in the monkey. *Transplantation*, 69 (7): 1275-1283, 2000.
2. Ma, A., Xiong, Z., Hu, Y., Qi, S., Song, L., Dun, H., Zhang, L., Lou, D., Yang, P., Zhao, Z., Wang, D., Zhang, D., Dalozé, P., **Chen, H**.  
Dysfunction of IL-10-producing type-1 regulatory T cells and CD4+CD25+ regulatory T cells in a mimic model of human multiple sclerosis in Cynomolgus monkeys. *International Immunopharmacology* 9: 599-608, 2009.
3. Ma, A., Qi, S., Wang, Z., Massicotte, E., Dupuis, M., Dalozé, P., **Chen, H**.  
Combined therapy of CD4+CD25+ regulatory T cells with low-dose sirolimus, but not calcineurin inhibitors, preserves suppressive function of regulatory T cells and prolongs allograft survival in mice. *International Immunopharmacology* 9: 553-563, 2009.
4. Ma, A., Qi, S., Song, L., Hu, Y. Dun, H., Zhang, L., Xiong, Z., Massicotte, E., Dupuis, M., Wang, X., Dalozé, P., **Chen, H**.  
Adoptive transfer of CD4+CD25+ regulatory cells combined with low dose sirolimus delays acute rejection of renal allografts in Cynomolgus monkeys. *Journal of Immunology*, 2010 in press.

**Disciplines/ Qualifications:**

Candidates should have a formal training in biomedical sciences or medicine or a related discipline (immunology, pharmacology or surgery), have excellent organizational, interpersonal, and communication skills, and have a strong interest in organ transplantation or immunopharmacology.

**Contact:**

Applicants should submit a resume, university records, a short statement of research interests, TOEFL results and two letters of recommendation to Dr. CHEN, Huifang by email ([hui.fang.chen@umontreal.ca](mailto:hui.fang.chen@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.**