



Université 
de Montréal

Position for a postdoctoral fellow in Cell Signaling and Molecular Oncology

Laboratory of Dr El Bachir Affar,
Maisonneuve-Rosemont Hospital Research Center, University of Montreal

<http://recherche.maisonneuve-rosemont.org/en-ca/research/our-research-investigators/affar-el-bachir.html>

Project description: The goal of our research is to understand the roles of ubiquitin signaling in fundamental DNA-dependent processes most notably transcription regulation and DNA damage/repair. We are using biochemical and molecular biology approaches to investigate the function and mechanism of action of the deubiquitinase and tumor suppressor BAP1, which represents an excellent paradigm for understanding how deubiquitination coordinates DNA-dependent processes and protect against cancer development.

N Mashtalir , S Daou , H Barbour, N Sen, J Gagnon , I Hammond-Martel , H Dar, M Therrien, **EB Affar** ,
Autodeubiquitination Protects the Tumor Suppressor BAP1 from Cytoplasmic Sequestration Mediated by the Atypical Ubiquitin Ligase UBE2O. *Molecular Cell*. 2014 May 8;54(3):392-406.

H Yu, H Pak, I Hammond-Martel, M Ghram, A Rodrigue, S Daou, J Hébert, E Drobetsky, JY Masson, JM Di Noia and **EB Affar**. Tumor Suppressor and Deubiquitinase BAP1 Promotes DNA Double-Strand Break Repair. *Proc Natl Acad Sci*, 2014;111(1):285-90.

I Hammond-Martel, H Yu, and **EB Affar**. Roles of ubiquitin signaling in transcription regulation. *Cellular Signaling*, 24(2):410-21, (2012)

S Daou, N Mashtalir, I Hammond-Martel, H Pak, H Yu, G Sui, T M. Kristie and **EB Affar**. Crosstalk Between O-GlcNAcylation And Proteolytic Cleavage Regulates The HCF-1 Maturation Pathway. *Proc. Natl. Acad. Sci.*, 2011 Feb 15;108(7):2747-2752.

I Hammond-Martel, H Pak, H Yu, R Rouget, AA. Horwitz, JD. Parvin, EA. Drobetsky and **EB Affar**. PI3 Kinase-Independent Proteolysis of BRCA1 Regulates Rad51 Recruitment During Genotoxic Stress in Human Cells. *PLoS One.*, 2010 Nov 17;5(11):e14027

H Yu, N Mashtalir, S Daou, I Hammond-Martel, J Ross, G Sui, GW. Hart, FJ. Rauscher III, E Drobetsky, E Milot, Y Shi and **EB Affar**. The Ubiquitin Carboxyl Hydrolase BAP1 Forms a Ternary Complex with YY1 and HCF-1 and is a Critical Regulator of Gene Expression. *Mol Cell Biol.*, 2010 Nov;30(21):5071-5085.

Qualifications: Candidates should have a solid publication record in molecular biology or biochemistry in the field of ubiquitin signaling or chromatin biology.

Contact: Applicants should submit a CV and a cover letter in one pdf document to Dr El Bachir Affar before november 30 th 2014: email (el.bachir.affar@umontreal.ca)