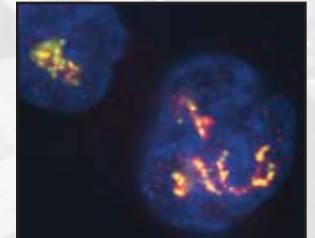


# Graduate Studies in molecular biology of development and gene regulation

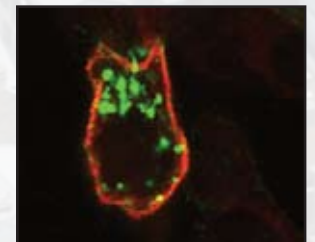
To better understand cancer, our laboratory is interested in aspects of both embryonic development and gene regulation. In particular, we are studying the role of signal transduction in regulating these processes in both mammals and amphibia.



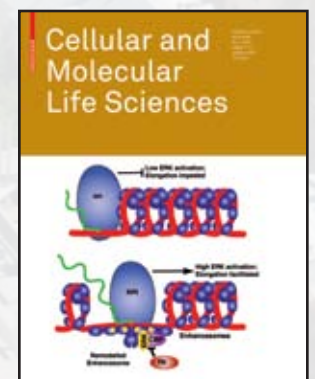
We are applying the most advanced techniques of molecular biology to these problems as well as taking advantage of proteomics, transgenics and "Gene-Knockout"



We have several openings for graduate students to join our group. If chosen, you will be trained in a modern, well equipped laboratory situated in the majority French speaking and very attractive centre of old Québec City. Those interested should send a curriculum vitae and a photocopy of their university grades to:-



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## Some recent publications:

- EphA4 signaling regulates blastomere adhesion in the *Xenopus* embryo by recruiting Pak1 to suppress Cdc42 function. Bisson N, Poitras L, Mikryukov A, Tremblay M, Moss T. *Mol Biol Cell*. 2007 Mar;18(3):1030-43.
- A housekeeper with power of attorney: the rRNA genes in ribosome biogenesis. Moss T, Langlois F, Gagnon-Kugler T, Stefanovsky V. *Cell Mol Life Sci*. 2007 Jan;64(1):29-49. Review.
- Growth factor signaling regulates elongation of RNA polymerase I transcription in mammals via UBF phosphorylation and r-chromatin remodeling. Stefanovsky V, Langlois F, Gagnon-Kugler T, Rothblum LI, Moss T. *Mol Cell*. 2006 Mar 3;21(5):629-39.
- ERK modulates DNA bending and enhances some structure by phosphorylating HMG1-boxes 1 and 2 of the RNA polymerase I transcription factor UBF. Stefanovsky VY, Langlois F, Bazett-Jones D, Pelletier G, Moss T. *Biochemistry*. 2006 Mar 21;45(11):3626-34.
- At the center of eukaryotic life. Moss T, Stefanovsky VY. *Cell*. 2002 May 31;109(5):545-8. Review.



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