

X. John  LIU

Telephone: (613) 798-5555 ext. 7752
Fax (613) 761-5411 or 761-5365
e-mail jliu@lri.ca

Corresponding address:

Loeb Health Research Institute
Ottawa Hospital Civic Campus
725 Parkdale Avenue
Ottawa, Ontario
K1Y 0G7

ACADEMIC APPOINTMENTS:

- Assistant Professor, Dept of Obstetrics and Gynaecology, Dept. of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa
- Member, School of Graduate Studies and Research, University of Ottawa
- Principal Investigator, Loeb Health Research Institute
- Member, National Cancer Institute of Canada (NCIC) panel D, 1997-
- Member, Doctoral Research Awards (Studentship) Committee, Medical Research Council of Canada (MRC), 1998-
- Scholar, Medical Research Council of Canada, 1995-2000

RESEARCH GRANTS (current):

- National Cancer Institute of Canada (NCIC) operating grant
- Medical Research Council of Canada (MRC) operating grant

RESEARCH PROJECTS:

- Insulin signal transduction in the model system of *Xenopus laevis* oocyte maturation
- Protein tyrosine kinases in vertebrate embryonic development using *Xenopus laevis* as a model

CURRENT LAB MEMBERS:

-Ms. Cathy Cummings, Technician
-Ms. Qing-Wei Chu, Research Assistant
-Mr. Ronald Booth, PhD Student
-Mr. Mustafa Bayaa, Graduate Student

RECENT PUBLICATIONS:

Liu, X.J., Sorisky, A., L. Zhu, and Pawson, T. Molecular cloning of an amphibian IRS-1-like protein and involvement of phosphatidylinositol 3-kinase in insulin-induced Xenopus oocyte maturation. **Mol.Cell.Biol.** 15:3563-3570 (1995).

Cummings, C., and Zhu, L, Sorisky, A., and **Liu, X. J.** A peroxovanadium compound induces Xenopus oocyte maturation: inhibition by a neutralizing anti-insulin receptor antibody. **Dev. Biol.** 175:338-346 (1996).

Sahar, Farah, Yehenew Agazie, Nicholas Ohan, Johnny K. Ngsee, and **X. Johné Liu.** A Rho-associated protein kinase, ROK α , binds insulin receptor substrate-1 and modulates insulin signalling. **J. Biol. Chem.** 273:4740 (1998).

Li Zhu, Nicholas Ohan, Yehenew Agazie, Sahar Farah, Cathy Cummings, and **X. Johné Liu.** Molecular cloning and characterization of Xenopus IGF-1 receptor: role in mediating insulin-induced Xenopus oocyte maturation and expression during embryogenesis. **Endocrinology**, 139:949-954 (1998).

Nicholas Ohan, Mustafa Bayaa, Parul Kumar, Li Zhu, and **X. Johné Liu.** A novel insulin receptor substrate protein, xIRS-u, potentiates insulin signalling: dependence on the pleckstrin homology domain. **Molecular Endo.** 12:1086-1098 (1998).