

## Message from the Program Director

As most of you know, we had our second annual winter DevBio mini symposium on Friday, January 13th. It was a great success, with fantastic talks from all of the students on a wide range of topics. The breadth of our developmental biology community was much in evidence, as various topics from frog gastrulation, proteoglycan function in zebrafish and RNA biology in *Drosophila* were presented. After much discussion by the faculty attending, the top student presentation travel award of \$750 was awarded to **Erich Damm** (Rudi Winklebauer's lab), and a second travel award of \$250 was awarded to **Jeff Burrows** (Ian Scott's lab). Congratulations.

I am also delighted to welcome several new students to the DevBio program. Two new MSc students, **Abigail Mateo** and **Matthew Hall** (Brent Derry's lab) and a PhD student from Bret Pearson's lab, **David Brown**, have joined the program. We look forward to their participation in upcoming DevBio events.

On Feb 8<sup>th</sup> I will be hosting **Fabiola Terzi** ( Inserm, Paris, France) who will be speaking on EGFR signaling in mouse kidney development and disease. If you are interested in meeting with Fabiola, please contact me at [mcneill@lunenfeld.ca](mailto:mcneill@lunenfeld.ca) as I will be arranging her schedule shortly.

Best wishes,

## People Matters

A warm welcome to the following students who have recently joined our program:

**David Brown**  
PhD candidate  
University of Toronto  
Molecular Genetics  
Pearson lab

**Mathew Hall**  
MSc candidate  
University of Toronto  
Molecular Genetics  
Derry lab

**Abigail Mateo**  
MSc candidate  
University of Toronto  
Molecular Genetics  
Derry lab



## Seminars and Meetings of Interest

### Dr. Fabiola Terzi

INSERM U845 France

*EGFR, a driving pathway of chronic kidney disease progression*

February 8, 2012

60 Murray Street

Room L3-201

12 noon

## Great Lakes Mammalian Development Meeting

Renaissance Hotel at Rogers Centre

Hosted by Dr. Janet Rossant

April 12-14, 2012

### Selected Recent Publications from our Members

Alman B, Kelley S, Nam D (2011) *Heal Thyself: Using endogenous regeneration to repair bone* **Tissue Eng Part B Rev** Dec;17(6):431-6.

Anderson NM, Berberovic Z, Berndt E, Bailey ML, Flenniken AM, Osborne LR, Adamson SL, Rossant J, Wang C, Minden MD, McNagny KM, Paulson RF, Barber DL, Stanford WL (2012) *Cytopenia induction by 5-fluorouracil identifies thrombopoietic mutants in sensitized ENU mutagenesis screens* **Exp Hematol** Jan;40(1):48-60.

Cox B, Sharma P, Evangelou AI, Whiteley K, Ignatchenko V, Ignatchenko A, Baczyk D, Czikk M, Kingdom J, Rossant J, Gramolini AO, Adamson SL, Kislinger T (2011) *Translational analysis of mouse and human placental protein and mRNA reveals distinct molecular pathologies in human preeclampsia* **Mol Cell Proteomic** Dec;10(12):M111.012526.

Daulat AM, Luu O, Sing A, Zhang L, Wrana JL, McNeill H, Winklbauer R, Angers S (2012) *Mink1 regulates  $\beta$ -catenin-independent Wnt signaling via prickle phosphorylation* **Mol Cell Biol** Jan;32(1):173-85.

Huynh ML, Rivkin E, Mui R, Cordes SP (2011) *A tryptophan hydroxylase 1 reporter that directs Cre recombinase extinguishable placental alkaline phosphatase (PLAP) expression in serotonergic (5-HT) neurons and peripheral tissues* **Genesis** Nov;49(11):851-61.

Kawano T, Po MD, Gao S, Leung G, Ryu WS, Zhen M (2011) *An imbalancing act: gap junctions reduce the backward motor circuit activity to bias C. elegans for forward locomotion* **Neuron** Nov 17;72(4):572-86.

McCann MR, Tamplin OJ, Rossant J, Séguin CA (2012) *Tracing notochord-derived cells using a Notocore mouse: implications for intervertebral disc development* **Dis Model Mech** Jan;5(1):73-82.

Mok CA, Healey MP, Shekhar T, Leroux MR, Héon E, Zhen M (2011) *Mutations in a guanylate cyclase GCY-35/GCY-36 modify Bardet-Biedl syndrome-associated phenotypes in Caenorhabditis elegans* **PLoS Genet** Oct;7(10):e1002335.

Moore AJ, Sarmiento J, Mohtashami M, Braunstein M, Zúñiga-Pflücker JC, Anderson MK (2012) *Transcriptional priming of intrathymic precursors for dendritic cell development* **Development** Jan;139(2):373-84

Murakami T, Yang SP, Xie L, Kawano T, Fu D, Mukai A, Bohm C, Chen F, Robertson J, Suzuki H, Tartaglia GG, Vendruscolo M, Kaminski Schierle GS, Chan FT, Moloney A, Crowther D, Kaminski CF, Zhen M, St George-Hyslop P (2012) *ALS mutations in FUS cause neuronal dysfunction and death in Caenorhabditis elegans by a dominant gain-of-function mechanism* **Hum Mol Genet** Jan 1;21(1):1-9.

Oshima Y, Kinouchi K, Ichihara A, Sakoda M, Kurauchi-Mito A, Bokuda K, Narita T, Kurosawa H, Sun-Wada GH, Wada Y, Yamada T, Takemoto M, Saleem MA, Quaggin SE, Itoh H (2011) *Prorenin receptor is essential for normal podocyte structure and function* **J Am Soc Nephrol** Dec;22(12):2203-12.

Quaggin SE, George AL Jr (2011) *Apolipoprotein I1 and the genetic basis for racial disparity in chronic kidney disease* **J Am Soc Nephrol** Nov;22(11):1955-8.

Rowland JW, Lee JJ, Salewski RP, Eftekharpour E, van der Kooy D, Fehlings MG (2011) *Generation of neural stem cells from embryonic stem cells using the default mechanism: in vitro and in vivo characterization* **Stem Cells Dev** Nov;20(11):1829-45.

Tamplin OJ, Cox BJ, Rossant J (2011) *Integrated microarray and ChIP analysis identifies multiple Foxa2 dependent target genes in the notochord* **Dev Biol** Dec 15;360(2):415-2.

Thompson PK, Zúñiga-Pflücker JC (2011) *On becoming a T cell, a convergence of factors kick it up a Notch along the way* **Semin Immunol** Oct;23(5):350-9.

#### CPDB E-News

For more information please contact:

Cindy Todoroff

Phone: 416-586-4694

E-mail: [todoroff@lunenfeld.ca](mailto:todoroff@lunenfeld.ca)

Your comments and submissions  
are always welcome







