

Department of Immunology

Newsletter

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VOL II – ISSUE 6

February 2014

Message from the Chair, Dr. Juan Carlos Zúñiga-Pflücker

The February issue of the Immunology Newsletter is a few days late, but as they say, better late than never. We typically aim to send it out on the last of week of the month, such that we can have a full listing of the previous month's publications from our Department. As we look forward, March will have a great start with the release of Volume II of the Department's IMMpress Magazine, copies of the magazine are on their way to your mailboxes, but in the meantime you can check it out at www.immpressmagazine.com. Congratulations to the IMMpress team for another stellar issue.

I want to highlight two items from this month's newsletter: we will be having our next Departmental Faculty Meeting on March 10th; and, to all our 2nd year graduate students please note the upcoming deadlines regarding setting up your reclassification/qualifying exams; with this in mind, please note that IGSA is ready to help, see below.

Lastly, we continue to try to reach out to all postdoctoral fellows working in labs of PI's affiliated with Department of Immunology, with this in mind, please encourage your postdocs to go to

www.immunology.utoronto.ca/postdoctoral/bulletin/imm.pdf.htm

to register with us.

UPCOMING EVENTS

Departmental Faculty Meeting

– Monday, March 10th, 11:00am,
Medical Sciences Building, Room 2317.

UPCOMING SEMINARS

EASTON SEMINARS – March 2014 Room 2172 MSB at 11:10 a.m.

March 17

- Vijay K. Kuchroo, DVM, PhD
"Unexpected Targets and Triggers of Autoimmunity."
(Host: Dr. Tak Mak)

March 24

- Joan M. Goverman, PhD
"How IL-17, IFN- γ , Neutrophils and B cells Shape Neuroinflammatory Patterns in Multiple Sclerosis."
(Host: Dr. Jennifer Gommerman)

March 31

- Ciriaco A. Piccirillo, PhD
"Functional dynamics of FOXP3+ regulatory T cells in humans."
(Host: Dr. Tania Watts)

GRADUATE SEMINARS – March 2014 Room 3171 MSB at 10:00 a.m.

March 03

- Justin Chan (Supervisor: G. Ehrhardt)
- Christopher Gunst (Supervisor: C. Guidos)

March 10

- Jong Bok Lee (Supervisor: L. Zhang)
- Edward Chen (Supervisor: J.C. Zúñiga-Pflücker)

March 17

- Payam Zarin (Supervisor: J.C. Zúñiga-Pflücker)
- Muhammed Rahman (Supervisor: D. Philpott)

March 24 *No Seminar*

March 31

- Kieran Manion (Supervisor: J. Wither)
- Ben Wang (Supervisor: E. Fish)

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IMMUNOLOGY SPECIAL SEMINARS

Dr. Shigekazu Nagata

Department of Medical Chemistry
University of Kyoto
Yoshida-Konoe, Sakyo, Kyoto
Japan

(Host: Dr. Tak Mak)

“Exposure of phosphatidylserine and engulfment of apoptotic cells.”

Monday, March 24, 2014

10:00 a.m.

Room 2172, Medical Sciences Building
University of Toronto

Dr. Bruno Lemaitre

Professor,
École polytechnique fédérale de Lausanne
EPFLEPFL-SV-GHI-UPLEM
Lausanne, Switzerland

<http://lemaitrelab.epfl.ch/>

(Host: Dr. Dana Philpott)

“The Drosophila gut: innate immunity in epithelia.”

Friday, March 28, 2014

10:00 a.m.

Room 4171, Medical Sciences Building
University of Toronto

CONGRATULATIONS

PhD

Dr. Daniela Ardelean– January 29, 2014 (Letarte lab)

IGSA

Hello immunologists!

IGSA would like to remind all second year students about our practice exam program. If you would like to talk about the reclassification/qualifying exams with upper year students and run a practice exam before your exam comes around, let Tracy know (tracy.in@mail.utoronto.ca).

We are currently working on the retreat video! If you are interested in getting involved (writing, filming, acting, post production) please send Kieran an email (kieran.manion@mail.utoronto.ca).

Keep on the lookout for the events we have planned in March!

-- IGSA

IMMSA



Call for Abstracts ---

Dear Students,

Are you conducting clinical or basic research relevant to the field of immunology? Interested in presenting your findings in a cross-provincial competition with over \$1000 in cash prizes? Participate in the 6th annual Ontario-Québec Undergraduate Immunology Conference (OQUIC) today!

OQUIC is a cross-provincial, 2-day symposium of undergraduate immunology research. Students throughout Ontario and Québec are hosted at the University of Toronto and allowed to present their research findings through a competitive oral presentation. In addition to students from the University of Toronto, former OQUIC participants include students of Western University, McGill University, Waterloo University, Queen's University, McMaster University, and Université de Montréal.

OQUIC is completely free of charge for attendees and participants from outside of Toronto may be eligible for additional awards to cover their travel and lodgings. OQUIC's 2-day schedule includes competitive presentations, keynote presentations from world class immunology researchers, networking opportunities, and social mixers. Apply today to secure your spot in the competition! <http://immsauoft.com> and <http://facebook.com/IMMSA.UofT>

The 6th annual Ontario-Quebec Undergraduate Immunology Conference

Date of Conference: Friday, May 9th, 2014 to Saturday, May 10th, 2014

Location: Bahen Centre, University of Toronto

Encouraged Applicants: Undergraduate students in an accredited university in Ontario or Quebec

Relevant Areas of Research: Adaptive and Innate Immunity, Immunodeficiency, Infectious Disease, Auto-immunity, Immuno-therapy, Cancer, Transplantation, Cellular and Molecular Immunology, and more!

Application Deadline: 5:00pm at Friday, April 11, 2014 (**Abstracts are accepted on a rolling basis**)

Application Form: <http://bit.ly/1oXVi26>

Best Regards,

Lucy Chau & Heng Sun

Immunology Students Association (IMMSA) Co-Presidents

<http://immsauoft.com> | [@IMMSA_UofT](https://twitter.com/IMMSA_UofT) | <http://facebook.com/IMMSA.UofT>

PUBLICATIONS FROM THE DEPARTMENT OF IMMUNOLOGY (January 2014) (1-10)

1. Ardelean, D. S., M. Jerkic, M. Yin, M. Peter, B. Ngan, R. S. Kerbel, F. S. Foster, and M. Letarte. 2014. Endoglin and activin receptor-like kinase 1 heterozygous mice have a distinct pulmonary and hepatic angiogenic profile and response to anti-VEGF treatment. *Angiogenesis* 17:129-146.
2. Brenner, D., A. Bruestle, G. H. Y. Lin, P. A. Lang, G. S. Duncan, C. B. Knobbe-Thomsen, M. S. Paul, C. Reardon, M. W. Tusche, B. Snow, S. R. Hamilton, A. Pfefferle, S. O. Gilani, P. S. Ohashi, K. S. Lang, and T. W. Mak. 2014. TLR2 controls encephalitogenic immune responses by dendritic cells and regulatory T cells. *Proceedings of the National Academy of Sciences of the United States of America* 111:1060-1065.
3. Butler, M. O., and N. Hirano. 2014. Human cell-based artificial antigen-presenting cells for cancer immunotherapy. *Immunological Reviews* 257:191-209.
4. Clayton, K. L., M. S. Haaland, M. B. Douglas-Vail, S. Mujib, G. M. Chew, L. C. Ndhlovu, and M. A. Ostrowski. 2014. T Cell Ig and Mucin Domain-Containing Protein 3 Is Recruited to the Immune Synapse, Disrupts Stable Synapse Formation, and Associates with Receptor Phosphatases. *Journal of Immunology* 192:782-791.
5. Ichim, C. V., D. D. Dervovic, J. C. Zuniga-Pflucker, and R. A. Wells. 2014. The orphan nuclear receptor Ear-2 (Nr2f6) is a novel negative regulator of T cell development. *Experimental Hematology* 42:46-58.
6. Kreso, A., P. van Galen, N. M. Pedley, E. Lima-Fernandes, C. Frelin, T. Davis, L. Cao, R. Baiazitov, W. Du, N. Sydorenko, Y.-C. Moon, L. Gibson, Y. Wang, C. Leung, N. N. Iscove, C. H. Arrowsmith, E. Szentgyorgyi, S. Gallinger, J. E. Dick, and C. A. O'Brien. 2014. Self-renewal as a therapeutic target in human colorectal cancer. *Nature Medicine* 20:29-36.
7. Lee, A. H., R. Dhaliwal, C. Kantores, J. Ivanovska, K. Gosal, P. J. McNamara, M. Letarte, and R. P. Jankov. 2014. Rho-Kinase Inhibitor Prevents Bleomycin-Induced Injury in Neonatal Rats Independent of Effects on Lung Inflammation. *American Journal of Respiratory Cell and Molecular Biology* 50:61-73.
8. Paquette, S. G., D. Banner, C. Le Thi Bao, A. J. Leon, L. Xu, L. Ran, S. S. H. Huang, A. Farooqui, D. J. Kelvin, and A. A. Kelvin. 2014. Pandemic H1N1 influenza A directly induces a robust and acute inflammatory gene signature in primary human bronchial epithelial cells downstream of membrane fusion. *Virology* 448:91-103.

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9. Perez-Gomez, E., M. Jerkic, M. Prieto, G. del Castillo, E. Martin-Villar, M. Letarte, C. Bernabeu, F. Perez-Barriocanal, M. Quintanilla, and J. M. Lopez-Novoa. 2014. Impaired Wound Repair in Adult Endoglin Heterozygous Mice Associated with Lower NO Bioavailability. *Journal of Investigative Dermatology* 134:247-255.
10. Philpott, D. J., M. T. Sorbara, S. J. Robertson, K. Croitoru, and S. E. Girardin. 2014. NOD proteins: regulators of inflammation in health and disease. *Nature Reviews Immunology* 14:9-23.

We'd like to hear from you!
Comments or Questions – Please contact:
Immunology.newsletter@utoronto.ca