

Department of Immunology

Newsletter

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VOL I – ISSUE 5

January 2013

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

I trust that you all had a restful break, and now enjoying being back and ready for another great year of Immunology research. As we start the winter term, I wanted to share a remarkable milestone for our department's undergraduate teaching mission, one of our courses, IMM 250, The Immune System and Infectious Diseases, coordinated by Profs. Gommerman and Philpott, has reached a class enrollment of nearly 1000 students, which I find speaks volumes about the relevance of the course and quality of instruction, which has fueled an increased interest in Immunology by our undergraduates.

Also, be on the lookout for the upcoming inaugural issue of the *IMMpress Magazine*, which is indeed an impressive new initiative from our graduate students. I am sure that after reading the first issue, you will be left wanting more.

FACULTY IN THE NEWS

Check out [here](#) the announcement of Prof. Dana Philpott's Canada Foundation for Innovation (CFI)-funded research project: The University of Toronto's Host-Microbiome Research Network.

WELCOME

Graduate Students:

Aashiq Rahman (Dana Philpott's lab)

Christopher Gunst (rotation)

Postdoctoral Fellows:

Dr. Ali Abdul Sater (Tania Watts' lab)

UPCOMING SEMINARS

EASTON SEMINARS –

February 2013

Room 2172 MSB at 11:10 a.m.

February 4, 2013

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

February 11, 2013

- Robin M Yates, PhD.
"Redox considerations of antigen Processing."
(Host: Dr. Dana Philpott)

February 25, 2013

- Dario A. Vignali, PhD
"Molecular control of T cell function."
(Host: Dr. Juan Carlos Zúñiga-Pflücker)

GRADUATE SEMINARS –

February 2013

Room 3171 MSB at 10:00 a.m.

February 4, 2013

- Thergiorry Irrazabal (Martin, A.)
- Mayra Cruz Tleugabulova (Mallevaey, T.)

February 11, 2013

- Seung Hyun In (Anderson, M.)
- Nichole Kathryn Escalante (Mallevaey, T.)

February 25, 2013

- Nyrie Israelian (Danska, J.)
- Kieran Patricia Manion (Wither, J.)

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CONGRATULATIONS

PhD

- Dr. Peter Chen (Carlyle Lab) December 7, 2012
- Dr. Nathalie Simard (Paige Lab) December 10, 2012
- Dr. Colin Fang (Kelvin Lab) December 11, 2012

DEADLINES/REMINDERS

Awards

New** OGS: Online application now available via SGS, internal deadline April 1st, 2013

<http://www.sgs.utoronto.ca/informationfor/students/money/support/provincial/OGS.htm>

February 25 Final date to drop courses without academic penalty.

IGSA

UPCOMING IGSA EVENTS

January 24th - Faculty of Medicine Interdepartmental LFOTM

If the release of *Les Mis* has you itching to belt it on the big screen, come out to show off your pipes and show up your fellow Division IV grads at the Interdepartmental Karaoke night.

Location: O'Grady's

Time: 7:00pm

Cost: Free (beer and karaoke)

January 29th - BBI Networking Event

BBI kicks off the New Year with its very first networking event, featuring directors from several prominent biotechnology companies. Stay tuned for more details from your BBI reps over the coming week.

Location: The Fox and the Fiddle

Time: TBA

Cost: Free

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January 31st - IMMpress Release Party

This month sees the release of the Department of Immunology's very own magazine, *IMMpress*, spearheaded by Yuriy Baglaenko and chock-full of academic musings and scientific contributions from many well-known faces in the department. Come out to celebrate with a pint!

Location: TBA

Time: 7:00pm

Cost: Free

February 12th - Blackboard Immunology

Dr. Tania Watts hosts this month's BBI session. Come out for a riveting discussion and a free pint! Stay posted for sign-up information from your BBI reps.

Location: The Fox and the Fiddle

Time: TBA

Cost: Free

HEY THERE, FIRST-YEARS!

Student seminars are fast approaching and upper year mentors are on hand to help you learn how to shape that data into a presentation! And second-years, don't think we've forgotten you! Contact your local upper year mentor today

to get the inside scoop on re-classification. For the full contact list, check out:

<http://www.immunology.utoronto.ca/about/newsletter.htm>.



CONGRATULATIONS!



This year, between student seminars, raffle tickets, the silent auction and holiday party games, our department raised just over \$1000 for Nellie's Shelter. Thank you as well to everyone who contributed to the Toy and Food Drive!

PUBLICATIONS FROM THE DEPARTMENT OF IMMUNOLOGY (December 2012) (1-13)

1. Tattoli, I., D. J. Philpott, and S. E. Girardin. 2012. The bacterial and cellular determinants controlling the recruitment of mTOR to the Salmonella-containing vacuole. *Biology open* 1:1215-1225.

2. Shah, D. K., M. Mohtashami, and J. C. Zuniga-Pflucker. 2012. Role of Recycling, Mindbomb1 Association, and Exclusion from Lipid Rafts of Delta-like 4 for Effective Notch Signaling To Drive T Cell Development. *Journal of Immunology* 189:5797-5808.
3. Yu, C., S. Ali, J. St-Germain, Y. Liu, X. Yu, D. L. Jaye, M. F. Moran, M. D. Cooper, and G. R. A. Ehrhardt. 2012. Purification and identification of cell surface antigens using lamprey monoclonal antibodies. *Journal of Immunological Methods* 386:43-49.
4. Sharma, B., S. Joshi, A. Sassano, B. Majchrzak, S. Kaur, P. Aggarwal, B. Nabet, M. Bulic, B. L. Stein, B. McMahon, D. P. Baker, R. Fukunaga, J. K. Altman, J. D. Licht, E. N. Fish, and L. C. Platanias. 2012. Sprouty Proteins Are Negative Regulators of Interferon (IFN) Signaling and IFN-inducible Biological Responses. *Journal of Biological Chemistry* 287:42352-42360.
5. Zhang, Q., M. M. A. Rahim, D. S. J. Allan, M. M. Tu, S. Belanger, E. Abou-Samra, J. Ma, H. S. Sekhon, T. Fairhead, H. S. Zein, J. R. Carlyle, S. K. Anderson, and A. P. Makrigiannis. 2012. Mouse Nkrp1-Clr Gene Cluster Sequence and Expression Analyses Reveal Conservation of Tissue-Specific MHC-Independent Immunosurveillance. *Plos One* 7.
6. Clark, D. A., and G. Chaouat. 2012. Regulatory T cells and reproduction: how do they do it? *Journal of reproductive immunology* 96:1-7.
7. Jones, R. B., C. Kovacs, T.-W. Chun, and M. A. Ostrowski. 2012. Short Communication HIV Type 1 Accumulates in Influenza-Specific T Cells in Subjects Receiving Seasonal Vaccination in the Context of Effective Antiretroviral Therapy. *Aids Research and Human Retroviruses* 28:1687-1692.
8. Tattoli, I., M. T. Sorbara, D. J. Philpott, and S. E. Girardin. 2012. Bacterial autophagy The trigger, the target and the timing. *Autophagy* 8:1848-1850.
9. Jones, R. B., K. E. Garrison, S. Mujib, V. Mihajlovic, N. Aidarus, D. V. Hunter, E. Martin, V. M. John, W. Zhan, N. F. Faruk, G. Gyenes, N. C. Sheppard, I. M. Priumboom-Brees, D. A. Goodwin, L. Chen, M. Rieger, S. Muscat-King, P. T. Loudon, C. Stanley, S. J. Holditch, J. C. Wong, K. Clayton, E. Duan, H. Song, Y. Xu, D. SenGupta, R. Tandon, J. B. Sacha, M. A. Brockman, E. Benko, C. Kovacs, D. F. Nixon, and M. A. Ostrowski. 2012. HERV-K-specific T cells eliminate diverse HIV-1/2 and SIV primary isolates. *Journal of Clinical Investigation* 122:4473-4489.

10. Bruestle, A., D. Brenner, C. B. Knobbe, P. A. Lang, C. Virtanen, B. M. Hershenfield, C. Reardon, S. M. Lacher, J. Ruland, P. S. Ohashi, and T. W. Mak. 2012. The NF-kappa B regulator MALT1 determines the encephalitogenic potential of Th17 cells. *Journal of Clinical Investigation* 122:4698-4709.
11. Juran, B. D., G. M. Hirschfield, P. Invernizzi, E. J. Atkinson, Y. Li, G. Xie, R. Kosoy, M. Ransom, Y. Sun, I. Bianchi, E. M. Schlicht, A. Lleo, C. Coltescu, F. Bernuzzi, M. Podda, C. Lammert, R. Shigeta, L. L. Chan, T. Balschun, M. Marconi, D. Cusi, E. J. Heathcote, A. L. Mason, R. P. Myers, P. Milkiewicz, J. A. Odin, V. A. Luketic, B. R. Bacon, H. C. Bodenheimer, Jr., V. Liakina, C. Vincent, C. Levy, A. Franke, P. K. Gregersen, F. Bossa, M. E. Gershwin, M. deAndrade, C. I. Amos, K. N. Lazaridis, M. F. Seldin, K. A. Siminovitch, and P. B. C. G. S. G. Italian. 2012. Immunochip analyses identify a novel risk locus for primary biliary cirrhosis at 13q14, multiple independent associations at four established risk loci and epistasis between 1p31 and 7q32 risk variants. *Human Molecular Genetics* 21:5209-5221.
12. Huang, S. S. H., D. Banner, N. Degousee, A. J. Leon, L. Xu, S. G. Paquette, T. Kanagasabai, Y. Fang, S. Rubino, B. Rubin, D. J. Kelvin, and A. A. Kelvin. 2012. Differential Pathological and Immune Responses in Newly Weaned Ferrets Are Associated with a Mild Clinical Outcome of Pandemic 2009 H1N1 Infection. *Journal of Virology* 86:13187-13201.
13. Kennedy, M., G. Awong, C. M. Sturgeon, A. Ditadi, R. La Motte-Mohs, J. C. Zuniga-Pflucker, and G. Keller. 2012. T lymphocyte potential marks the emergence of definitive hematopoietic progenitors in human pluripotent stem cell differentiation cultures. *Cell reports* 2.

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