

Department of Immunology

Newsletter

VOL VI – ISSUE 1

September 2017

Message from the Acting Chair, Dr. Dana Philpott



Welcome Immunology folks to a new academic year and a warm welcome to our incoming students! As many of you know, I am Acting Chair of the Department while JC is on administrative leave until April of next year. While it's not possible to fill his shoes, I hope to leave my own (small) mark on the Department in the next months. Since I am the current boss, I would like to take this opportunity to thank JC on behalf of everyone in the Department for his successful first 5 years as Chair! Looking forward to 5 more years with JC at the helm.

I'd like to thank members of the Graduate Committee for their efforts and their selection of our outstanding new bunch of fundamental and applied Immunology students. On JC's behalf, I'd like to thank Philippe Poussier and Stuart Berger for their involvement on this important committee as they step down and welcome new members, Thierry Mallevaey and Goetz Ehrhardt. Naoto Hirano and Clint Robbins, who coordinate "Immunology Tonight", have implemented new changes to the format of the course and we look forward to feedback. And I'm also happy to say that Imm Tonight is heading back to Trinity!

As you will see, IGSA has new leadership and I welcome Albert Nguyen and Yoojin Choi as your new co-presidents. They have an exciting line up of social and outreach events that I hope you all will take advantage of. Thanks to out-going presidents, Mark Gower and Maria Edilova for an excellent job last year.

We had the IMMSA welcome back lunch last week and some of our faculty had the chance to meet our undergraduate students. Welcome to the new IMMSA co-presidents, Sonya Kim and Lucy Shao, and thanks to outgoing presidents Natalie Hoffmann and Conan Chua. Sonya and Lucy have plans for new, exciting IMMSA events and I hope to see good participation for these.

Hope to see you all at the student seminars and Easton seminars (great line-up Tracy and David!) and I wish you all a good start to the 2017-2018 academic year.

UPCOMING

October Human Immunology Panel
5:00 to 6:00 pm
Monday October 16, 2017
Rm 7231

Dr. Michael Brenner M.D.; Theodore B. Bayles
Professor of Medicine, Harvard Medical School

"Human disease deconstruction using single cell
analyses"

Host: Dr. Tracy McGaha Ph.D.

Student Seminars

October 2017 Room 2173 MSB at 10:00 a.m.

Monday, October 2nd, 2017

Maria Edilova (Supervisor: T. Watts)

Kuan Lun Chu (Supervisor: T. Watts)

Monday, October 9th, 2017 Thanksgiving –
No Seminar

Monday October 16th, 2017

Mark Anczurowski (Supervisor: N. Hirano)

Mahmoud El-Maklizi (Supervisors: C. Guidos and J.
Danska)

Monday October 23rd, 2017

Christopher Yau (Supervisor: J. Danska)

Monday October 30th, 2017

Lysa Langevin (Supervisor: R. Yeung)

Albert Nguyen (Supervisor: J. Gommerman)

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CONGRATULATIONS...FACULTY PROMOTIONS

Professor

Dr. James Carlyle

Dr. Alberto Martin

Dr. Dana Philpott

Associate Professor

Dr. Shannon Dunn

Dr. Thierry Mallevaey

Adjunct Professor

Dr. Florence Tsui,

CONGRATULATIONS

PhD

Ben Wang (Fish lab) – June 7, 2017

Nichole Escalante (Mallevaey and Philpott labs) – June 29, 2017

Jordan Schwartz (Ostrowski lab) – August 21, 2017

Ashleigh Goethel (Croitoru and Philpott labs) – August 23, 2017

Alessandra Ferzoco (Julius lab) – August 24, 2017

MSc

James Han (Ohashi lab) – June 19, 2017

Kelly Tai (Jongstra-Bilen and Cybulsky labs) – July 13, 2017

Reclassification Exam

Yoojin Choi (Kaul lab) – June 22, 2017

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WELCOME

Fundamental Immunology MSc and PhD

Yi Tao Chan (On Rotation)

Pailin Chiaranunt (On Rotation)

Douglas Chung (Ohashi Lab)

Melanie Girard (On Rotation)

Jennifer Hoang (On Rotation)

Saad Khan (On Rotation)

Melissa Kleinau (On Rotation)

Adrian Kuipery (On Rotation)

Irene Lau (On Rotation)

Yee Tung Leslie Leung (Ehrhardt Lab)

Lewis Liu (On Rotation)

Priya Makhijani (On Rotation)

Andrew Mazzanti (On Rotation)

Carolina Munoz-Grajales (Wither Lab)

Logan Kyle Smith (Treanor Lab)

Kenneth Ting (On Rotation)

Anran Wang (On Rotation)

Nathaniel Jesse Winsor (On Rotation)

Anthony Wong (On Rotation)

Rysa Zaman (On Rotation)

Anthony Zhao (Guidos Lab)

WELCOME TO THE NEW APPLIED IMMUNOLOGY STUDENTS

Sai Chung (MacParland Lab)

Sarah Colpitts (Paige Lab)

Baweleta Isho (Poussier Lab)

Mikhail Makogonov (Paige Lab)

Judi Yang (Ehrhardt Lab)

Michelle Zuo (Guidos Lab)

FEATURED CAMPUS RESOURCE

If you are one of nearly 5,000 international U of T graduate students from 138 countries around the globe, this portal will help you prepare, plan, and experience the best that our three campuses have to offer. Services include, immigration information, transition advising, health and wellness and many more.

You may find the SGS International Graduate Student Portal here:

<https://www.sgs.utoronto.ca/international>



IGSA

Dear Immunologists,

We hope you had a wonderful summer and are excited for this school year! Also, we would like to extend a warm welcome to all incoming students.

What a great start to the year - thanks to everyone who came out to the Orientation Pub. It was a great opportunity for the new and returning students to mingle, and we also had an AMAZING faculty turnout! We hope the incoming students got a little taste of what our department is all about and the opportunities we offer to have a more balanced grad life (IMMPress, SciChat, Let's Talk Science and more)! We will be finishing off the month with several events including the Wonderland trip for the brave souls who would like to venture through the Leviathan & Behemoth (if you survived those rides, grad school will be a breeze for you), the First Years Pub, and the intense Immunology-Biochemistry softball showdown.

Stay tuned for the month of October as we will be hosting a games night (feel free to bring your favourite board games) and a pumpkin carving contest followed by a scary movie! Last but certainly not the least, students are invited to get spooky at the Interdepartmental Halloween party - keep in mind that there will be prizes for people with the best costumes, so get your creative hats on now!

If you have any ideas or suggestions for IGSA events/initiatives, please don't hesitate to talk to us - we are a friendly bunch here to make your departmental experience more enjoyable! And with that, we would like to conclude by introducing our team: Yoojin & Albert (Co-Presidents), Dario (Internal Affairs), Lisa & Tao & Parshin (Social Reps), Oksana (Sports Rep), Brett (Career Development), Anthony (Community Outreach) and Jennifer (GSU/CUPE Rep). You can also stay up-to-date by visiting the IGSA website or joining the IGSA Facebook group.

Cheers,

Yoojin & Albert

IGSA Co-Presidents 2017-2018



PUBLICATIONS FROM THE DEPARTMENT OF IMMUNOLOGY (June—August 2017)

1. Aguilar, O. A., H. Hadj-Moussa, and K. B. Storey. 2017. Freeze-responsive regulation of MEF2 proteins and downstream gene networks in muscles of the wood frog, *Rana sylvatica*. *Journal of Thermal Biology* 67: 1-8.
2. Allan, D. S. J., A. S. Cerdeira, A. Ranjan, C. L. Kirkham, O. A. Aguilar, M. Tanaka, R. W. Childs, C. E. Dunbar, J. L. Strominger, H. D. Kopcow, and J. R. Carlyle. 2017. Transcriptome analysis reveals similarities between human blood CD3(-) CD56(bright) cells and mouse CD127(+) innate lymphoid cells. *Scientific Reports* 7.
3. Bidad, K., E. Gracey, K. S. Hemington, J. C. S. Mapplebeck, K. D. Davis, and R. D. Inman. 2017. Pain in ankylosing spondylitis: a neuro-immune collaboration. *Nature Reviews Rheumatology* 13: 410-420.
4. Brustle, A., D. Brenner, C. B. Knobbe-Thomsen, M. Cox, P. A. Lang, K. S. Lang, and T. W. Mak. 2017. MALT1 is an intrinsic regulator of regulatory T cells. *Cell Death and Differentiation* 24: 1214-1223.
5. Chang, N. H., K. P. Manion, C. Loh, E. Pau, Y. Baglaenko, and J. E. Wither. 2017. Multiple tolerance defects contribute to the breach of B cell tolerance in New Zealand Black chromosome 1 congenic mice. *Plos One* 12.
6. de la Pena, A. T., J. P. Julien, S. W. de Taeye, F. Garces, M. Guttman, G. Ozorowski, L. K. Pritchard, A. J. Behrens, E. P. Go, J. A. Burger, E. E. Schermer, K. Sliepen, T. J. Ketas, P. Pugach, A. Yasmeen, C. A. Cottrell, J. L. Torres, C. D. Vavourakis, M. J. van Gils, C. LaBranche, D. C. Montefiori, H. Desaire, M. Crispin, P. J. Klasse, K. K. Lee, J. P. Moore, A. B. Ward, I. A. Wilson, and R. W. Sanders. 2017. Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. *Cell Reports* 20: 1805-1817.
7. Gehring, A. J. 2017. New treatments to reach functional cure: Rationale and challenges for emerging immune-based therapies. *Best Practice & Research in Clinical Gastroenterology* 31: 337-345.
8. Kim, C. J., R. Rousseau, S. Huibner, C. Kovacs, E. Benko, K. Shahabi, G. Kandel, M. Ostrowski, and R. Kaul. 2017. Impact of intensified antiretroviral therapy during early HIV infection on gut immunology and inflammatory blood biomarkers. *Aids* 31: 1529-1534.
9. Lheureux, S., C. Denoyelle, P. S. Ohashi, J. S. De Bono, and F. M. Mottaghy. 2017. Molecularly targeted therapies in cancer: a guide for the nuclear medicine physician. *European Journal of Nuclear Medicine and Molecular Imaging* 44: S41-S54.
10. MacGregor, H. L., and P. S. Ohashi. 2017. Molecular Pathways: Evaluating the Potential for B7-H4 as an Immunoregulatory Target. *Clinical Cancer Research* 23: 2934-2941.
11. Matsumoto, Y., J. La Rose, M. Lim, H. A. Adissu, N. Law, X. H. Mao, F. Cong, P. Mera, G. Karsenty, D. Goltzman, A. Changoor, L. Zhang, M. Stajkowski, M. D. Grynopas, C. Bergmann, and R. Rottapel. 2017. Ubiquitin ligase RNF146 coordinates bone dynamics and energy metabolism. *Journal of Clinical Investigation* 127: 2612-2625.



PUBLICATIONS FROM THE DEPARTMENT OF IMMUNOLOGY (June—August 2017)

13. Onder, L., U. Morbe, N. Pikor, M. Novkovic, H. W. Cheng, T. Hehlhans, K. Pfeffer, B. Becher, A. Waisman, T. Rulicke, J. Gommerman, C. G. Mueller, S. Sawa, E. Scandella, and B. Ludewig. 2017. Lymphatic Endothelial Cells Control Initiation of Lymph Node Organogenesis. *Immunity* 47: 80-+.
14. Ranganathan, V., E. Gracey, M. A. Brown, R. D. Inman, and N. Haroon. 2017. Pathogenesis of ankylosing spondylitis - recent advances and future directions. *Nature Reviews Rheumatology* 13: 359-367.
15. Sivasubramaniyam, T., S. A. Schroer, A. Li, C. T. Luk, S. Y. Shi, R. Besla, D. W. Dodington, A. H. Metherel, A. P. Kitson, J. J. Brunt, J. Lopes, K. U. Wagner, R. P. Bazinet, M. P. Bendeck, C. S. Robbins, and M. Woo. 2017. Hepatic JAK2 protects against atherosclerosis through circulating IGF-1. *Jci Insight* 2.
16. Snell, L. M., T. L. McGaha, and D. G. Brooks. 2017. Type I Interferon in Chronic Virus Infection and Cancer. *Trends in Immunology* 38: 542-557.
17. Wang, B. X., E. G. Brown, and E. N. Fish. 2017. Residues F103 and M106 within the influenza A virus NS1 CPSF4-binding region regulate interferon-stimulated gene translation initiation. *Virology* 508: 170-179.
18. Wang, B. X., and E. N. Fish. 2017. Interactions Between NS1 of Influenza A Viruses and Interferon-alpha/beta: Determinants for Vaccine Development. *Journal of Interferon and Cytokine Research* 37: 331-341.
19. Wouters, M. C. A., C. M. Laumont, B. Chen, S. J. Han, K. Matuszewska, K. Potts, J. E. Boudreau, and C. M. Krawczyk. 2017. The Summit for Cancer Immunotherapy (Summit4CI), June 26-29, 2016 Halifax, Canada. *Cancer Immunology Immunotherapy* 66: 811-818.

We'd like to hear from you!
Comments or Questions – Please contact:
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