

# Department of Immunology

## Newsletter

image provided by Michael Corrin

VOL II – ISSUE 1

September 2013

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

Welcome to **Volume II** of the *Department of Immunology Newsletter*. Since its start in the Fall of 2012, the monthly Newsletter has provided us with an additional tool with which to communicate upcoming events within our Department – such as our Easton, special and graduate seminars, and student sponsored events – and to highlight achievements from our trainees and faculty. The Newsletter also serves as a platform for sharing departmental initiatives and showcasing recent publications from our Department.

I am delighted to welcome our new Immunology graduate students to the program - listed below. The Graduate Committee, as usual, did an excellent job in vetting our incoming class. As you know, Prof. Jennifer Gommerman is our new Graduate Coordinator, as of July 2013, taking over from Prof. Stuart Berger, who excelled in this role for many years. Nevertheless, we retained him as part of the Graduate Committee, and he graciously agreed to continue coordinating the graduate student seminars, held Mondays 10:00 am – be there.

An additional update from the Graduate Committee, I am happy to report that Prof. David Williams has agreed to join this important committee of the department. He will be replacing a long-serving member and former Graduate Coordinator, Prof. Tania Watts, whose tremendous dedication and commitment to our graduate program have been invaluable. Please join me in thanking Tania for her many years of extraordinary service in which she tirelessly worked on behalf of our graduate students.

As you all know, the Department of Immunology has been in Strategic Planning mode for the past few months, and we are now nearing the next phase of the process in which we will soon be sharing a draft plan with all department members. As usual, I look forward to hearing from you about this and any other items.

### UPCOMING SEMINARS

#### EASTON SEMINARS – October 2013

Room 2172 MSB at 11:10 a.m.

##### October 07

- Prof. Foo Yew "Eddy" Liew  
*"The role of cytokines in infection and inflammation."*  
(Host: Dr. Mike Ratcliffe)

##### October 21

- Cheolho Cheong, PhD  
*"Dendritic cell subsets in inflammatory diseases."*  
(Host: Dr. Jenny Jongstra-Bilen)

##### October 28

- Laurent Gapin, PhD  
*"Effective Functional Maturation of iNKT cells is constrained by negative selection and TCR affinity."*  
(Host: Dr. Thierry Mallevaey)

#### GRADUATE SEMINARS – October 2013

Room 3171 MSB at 10:00 a.m.

##### October 07

- Fei Linda Zhao (Supervisor: S. Dunn)
- Miho Tanaka (Supervisor: J. Carlyle)

##### October 21

- Catherine Schrankel (Supervisor: J. Rast)
- Simon Eng (Supervisor: R. Yeung)

##### October 28

- Heather MacGregor (Supervisor: P. Ohashi)
- Paulina Drohomysrecky (Supervisor: S. Dunn)

# Department of Immunology

## Newsletter

image provided by Michael Corrin

---

### UPCOMING EVENTS

#### SPECIAL SEMINARS

Dr. Karen Mossman  
Professor  
Chair, Biochemistry and Biomedical Sciences  
McMaster University  
Hamilton, ON

(Host: Dr. Kelly MacDonald)

“How innate antiviral immunity impacts on cancer therapy.”

Tuesday, October 22, 2013  
4:00 p.m.  
Room 7231 MSB

#### DEPARTMENTAL FACULTY MEETING

Monday, November 4, 2013  
11:00 a.m.  
Dean’s Conference Room (DCR), Medical Sciences Building

---

### WELCOME

#### Graduate Students

- Selena Cen
- Edward Chen
- Sherine Ensan
- Magar Ghazarian
- Mark Gower
- Tingxi Tim Guo
- Nam Yun Alexia Kim
- Dennis Lee
- Angela Li
- Qiaochu Irene Lin
- Helen Luck
- Viktoria Serkis
- Clare So
- Sintia Xhiku
- Jennifer Yam
- Sergey Yegorov

---

### WELCOME

#### Undergraduate IMM450Y Students

- Navreet Bains
- Given Lee

# Department of Immunology

## Newsletter

image provided by Michael Corrin

- Myra Caballero
- Valera Castanov
- Yuechuan Chi
- Kuan Lun Chu
- Matthew Douglas-Vail
- Jacob Duarte Spiel
- Elisabeth Foerster
- Buddhi Hatharaliyadda
- Rui Hu
- Segen Kidane
- Timothy Lau
- Edward Vincent Luong
- Blair MacDonald
- Sangeetha Paramathas
- Linda Chang Qu
- Aria Shakeri
- Gelareh Sharbatdar Alaei
- Kun Shen
- Kelly Tai
- Piotr Wnuk
- Hanqi Zhao

### CONGRATULATIONS

#### PhD

- Dr. Tae Joon Yi (Kaul lab) – June 27, 2013  
Dr. Geoffrey Paltser (Dosch lab) – June 28, 2013  
Dr. Lisa Wagar (Watts lab) – August 2, 2013  
Dr. Amanda Moore (Anderson lab) – August 8, 2013  
Dr. Dariush Davani (Ratcliffe lab) – August 16, 2013  
Dr. Bryant Boulianne (Gommerman/Martin labs) – August 26, 2013

#### MSc

- Wendy Shyu (Levy lab) – June 24, 2013  
Alex Ling (Ratcliffe lab) – August 20, 2013

#### Reclassification / Qualifying Exams

- Darrin Gao – June 20, 2013  
Nyrie Israelian – June 25, 2013  
Sabrin Mishel – June 28, 2013  
Paulina Drohomysky – July 2, 2013  
Joshua Morea – July 3, 2013  
Mayra Cruz Tleugabulova – July 8, 2013  
Therigiory Irrazabal – June 21, 2013  
Jordan Schwartz – June 24, 2013  
Nichole Escalante – June 26, 2013  
Derek Clouthier – July 12, 2013  
Martin Alphonse – August 7, 2013

---

### DEADLINES/REMINDERS

#### Awards

# Department of Immunology

## Newsletter

image provided by Michael Corrin

Vanier NSERC/CIHR: Department Deadline: October 1, 2013

NSERC PGSM/PGSD: Department Deadline: October 10, 2013

OGS: Department Deadline: April 1, 2014

CIHR CGSM: Department Deadline: November 19, 2013

### Graduation

Final date to submit post-defense doctoral thesis to SGS for Fall convocation: October 2013

Final date to submit post-defense masters thesis to SGS for Fall convocation, without fees being charged for the Fall session: October 2013

---

### IGSA

Welcome back immunologists!

IGSA is happy to be back up and running for the 2013-2014 school year.

We are currently planning some great events for the remainder of September and encourage everyone to check the new IGSA Facebook page and the IGSA website for detailed info about the upcoming events.

We have decided not to send so much email spam as many had indicated in the IGSA survey that there were too many emails being sent your way. We will still send emails, but primarily on a monthly basis and encourage everyone to check the IGSA calendar on our webpage to keep up to date.

<http://igsa.sa.utoronto.ca/>

Our first games night of the year will be held at the end of September so keep an eye out for that!

An event for first years is in the works - if you are in first year be sure to attend!

We look forward to another great year!

-- IGSA

---

IMMSA

# Department of Immunology

## Newsletter

image provided by Michael Corrin

Hey Immunologists,

Welcome back to another school year! We at the Immunology Students' Association (IMMSA) hope everyone had a successful and relaxing summer. As you may know, IMMSA represents all undergraduate students taking IMM-titled PoSts and courses. We'll be organizing research seminars, career networking mixers, and socials throughout the year. We look forward to seeing all immunology students, new or returning, at our events! Make sure you keep up with all the latest IMMSA news:

Like us on **Facebook**: [immsa@utoronto.ca](https://www.facebook.com/immsa@utoronto.ca)

Check out our Website: <https://uoft.me/immsa>

Follow us on **Twitter**: @IMMSA\_UofT

Send us an Email: [immsa@utoronto.ca](mailto:immsa@utoronto.ca)

Best Regards,

Lucy Chau & Heng Sun

IMMSA Co-Presidents 2013

---

### **PUBLICATIONS FROM THE DEPARTMENT OF IMMUNOLOGY (June-August 2013)** (1-27)

1. Belcheva, A., B. Green, A. Weiss, C. Streutker, and A. Martin. 2013. Elevated Incidence of Polyp Formation in APC(Min/+)Msh2(-/-) Mice Is Independent of Nitric Oxide-Induced DNA Mutations. *PLoS One* 8.
2. Cairns, R. A., and T. W. Mak. 2013. Oncogenic Isocitrate Dehydrogenase Mutations: Mechanisms, Models, and Clinical Opportunities. *Cancer Discovery* 3:730-741.
3. Champiat, S., K. E. Garrison, R. A. S. Raposo, B. J. Burwitz, J. Reed, R. Tandon, V. A. York, L. P. Newman, F. A. Nimityongskul, N. A. Wilson, R. R. Almeida, J. N. Martin, S. G. Deeks, M. G. Rosenberg, A. A. Wiznia, G. E. Spotts, C. D. Pilcher, F. M. Hecht, M. A. Ostrowski, J. B. Sacha, and D. F. Nixon. 2013. T Cells Target APOBEC3 Proteins in Human Immunodeficiency Virus Type 1-Infected Humans and Simian Immunodeficiency Virus-Infected Indian Rhesus Macaques. *Journal of Virology* 87:6073-6080.
4. Clark, D. A. 2013. Aspirin and heparin to improve live birth rate in IVF for unexplained implantation failure? *Reproductive Biomedicine Online* 26:538-541.
5. Clark, D. A., M. Rahmati, C. Gohner, A. Bensussan, U. R. Markert, and G. Chaouat. 2013. Seminal plasma peptides may determine maternal immune response that alters success or failure of pregnancy in the abortion-prone CBAxDBA/2 model. *Journal of reproductive immunology* 99:46-53.
6. Crome, S. Q., P. A. Lang, K. S. Lang, and P. S. Ohashi. 2013. Natural killer cells regulate diverse T cell responses. *Trends in Immunology* 34:342-349.

# Department of Immunology

## Newsletter

image provided by Michael Corrin

7. Dervovic, D. D., H. C. Y. Liang, J. L. Cannons, A. R. Elford, M. Mohtashami, P. S. Ohashi, P. L. Schwartzberg, and J. C. Zuniga-Pflucker. 2013. Cellular and molecular requirements for the selection of in vitro-generated CD8 T cells reveal a role for notch. *Journal of immunology (Baltimore, Md. : 1950)* 191:1704-1715.
8. Dunn, S. E., and L. Steinman. 2013. The Gender Gap in Multiple Sclerosis Intersection of Science and Society. *Jama Neurology* 70:634-635.
9. Finney, C. A. M., K. Ayi, J. D. Wasmuth, P. M. Sheth, R. Kaul, M. Loutfy, K. C. Kain, and L. Serghides. 2013. HIV Infection Deregulates Tim-3 Expression on Innate Cells: Combination Antiretroviral Therapy Results in Partial Restoration. *J AIDS-Journal of Acquired Immune Deficiency Syndromes* 63:161-167.
10. Gracey, E., A. Lin, A. Akram, B. Chiu, and R. D. Inman. 2013. Intracellular Survival and Persistence of Chlamydia muridarum Is Determined by Macrophage Polarization. *Plos One* 8.
11. Huang, S. S. H., Z. Lin, D. Banner, A. J. Leon, S. G. Paquette, B. Rubin, S. Rubino, Y. Guan, D. J. Kelvin, and A. A. Kelvin. 2013. Immunity toward H1N1 influenza hemagglutinin of historical and contemporary strains suggests protection and vaccine failure. *Scientific Reports* 3.
12. Johnson, D. J., L. I. Pao, S. Dhanji, K. Murakami, P. S. Ohashi, and B. G. Neel. 2013. Shp1 regulates T cell homeostasis by limiting IL-4 signals. *Journal of Experimental Medicine* 210:1419-1431.
13. Juvet, S. C., C. W. Thomson, E. Y. Kim, M. Han, and L. Zhang. 2013. FcR gamma Controls the Fas-Dependent Regulatory Function of Lymphoproliferative Double Negative T Cells. *Plos One* 8.
14. Juvet, S. C., C. W. Thomson, E. Y. Kim, B. Joe, O. Adeyi, and L. Zhang. 2013. FcR gamma promotes T cell apoptosis in Fas-deficient mice. *Journal of Autoimmunity* 42:80-93.
15. Keystone, E. C., M. C. Genovese, S. Hall, P. C. Miranda, S.-C. Bae, W. Palmer, Z. Wu, S. Xu, and E. C. Hsia. 2013. Golimumab in Patients with Active Rheumatoid Arthritis Despite Methotrexate Therapy: Results Through 2 Years of the GO-FORWARD Study Extension. *Journal of Rheumatology* 40:1097-1103.
16. Lahiji, A., M. Kucerova-Levisohn, J. Lovett, R. Holmes, J. C. Zuniga-Pflucker, and B. D. Ortiz. 2013. Complete TCR-alpha Gene Locus Control Region Activity in T Cells Derived In Vitro from Embryonic Stem Cells. *Journal of Immunology* 191:472-479.
17. Lee, A. J., N. Kandiah, K. Karimi, D. A. Clark, and A. A. Ashkar. 2013. Interleukin-15 is required for maximal lipopolysaccharide-induced abortion. *Journal of Leukocyte Biology* 93:905-912.
18. Liu, J., M. D. Lange, S. Y. Hong, W. Xie, K. Xu, L. Huang, Y. Yu, G. R. A. Ehrhardt, M. Zemlin, P. D. Burrows, K. Su, R. H. Carter, and Z. Zhang. 2013. Regulation of V-H Replacement by B Cell Receptor-Mediated Signaling in Human Immature B Cells. *Journal of Immunology* 190:5559-5566.
19. Markle, J. G. M., S. Mortin-Toth, A. S. L. Wong, L. Geng, A. Hayday, and J. S. Danska. 2013. gamma delta T Cells Are Essential Effectors of Type 1 Diabetes in the Nonobese Diabetic Mouse Model. *Journal of Immunology* 190:5392-5401.

20. Robbins, C. S., I. Hilgendorf, G. F. Weber, I. Theurl, Y. Iwamoto, J.-L. Figueiredo, R. Gorbatov, G. K. Sukhova, L. M. S. Gerhardt, D. Smyth, C. C. J. Zavitz, E. A. Shikatani, M. Parsons, N. van Rooijen, H. Y. Lin, M. Husain, P. Libby, M. Nahrendorf, R. Weissleder, and F. K. Swirski. 2013. Local proliferation dominates lesional macrophage accumulation in atherosclerosis. *Nature medicine* 19:1166-1172.
21. Satpathy, A. T., C. G. Briseno, J. S. Lee, D. Ng, N. A. Manieri, K. C. Wumesh, X. Wu, S. R. Thomas, W.-L. Lee, M. Turkoz, K. G. McDonald, M. M. Meredith, C. Song, C. J. Guidos, R. D. Newberry, W. Ouyang, T. L. Murphy, T. S. Stappenbeck, J. L. Gommerman, M. C. Nussenzweig, M. Colonna, R. Kopan, and K. M. Murphy. 2013. Notch2-dependent classical dendritic cells orchestrate intestinal immunity to attaching- and-effacing bacterial pathogens. *Nature Immunology* 14:937-+.
22. Soares, F., I. Tattoli, M. E. Wortzman, D. Arnoult, D. J. Philpott, and S. E. Girardin. 2013. NLRX1 does not inhibit MAVS-dependent antiviral signalling. *Innate Immunity* 19:438-448.
23. Tyrrell, P. N., P. N. Corey, B. M. Feldman, and E. D. Silverman. 2013. Increased statistical power with combined independent randomization tests used with multiple-baseline design. *Journal of Clinical Epidemiology* 66:691-694.
24. Wortzman, M. E., D. L. Clouthier, A. J. McPherson, G. H. Y. Lin, and T. H. Watts. 2013. The contextual role of TNFR family members in CD8(+) T-cell control of viral infections. *Immunological Reviews* 255:125-148.
25. Wortzman, M. E., G. H. Y. Lin, and T. H. Watts. 2013. Intrinsic TNF/TNFR2 Interactions Fine-Tune the CD8 T Cell Response to Respiratory Influenza Virus Infection in Mice. *Plos One* 8.
26. Xie, G., Y. Lu, Y. Sun, S. S. Zhang, E. C. Keystone, P. K. Gregersen, R. M. Plenge, C. I. Amos, and K. A. Siminovitch. 2013. Identification of the NF-kappa B activating protein-like locus as a risk locus for rheumatoid arthritis. *Annals of the Rheumatic Diseases* 72:1249-1254.
27. Xiu, F., M. Stanojic, and M. G. Jeschke. 2013. Norepinephrine Inhibits Macrophage Migration by Decreasing CCR2 Expression. *Plos One* 8.

*We'd like to hear from you!*  
*Comments or Questions – Please contact:*  
[Immunology.newsletter@utoronto.ca](mailto:Immunology.newsletter@utoronto.ca)