NEWSLETTER



VOL XI – ISSUE V January 2023

MESSAGE FROM THE CHAIR, DR. JUAN CARLOS ZÚÑIGA-PFLÜCKER

Happy New Year!

Early January is a good time to reflect on the past year and ponder what the new year holds for us. As most of you know, I am a bit of an optimist, and feel that 2023 will bring about positive changes. In this regard, we ended 2022 with a wonderful gathering at the Hart House. Our thanks go to Meggie Kuypers, Bobby Tsankov and IGSA members for organizing a memorable evening, and to our MCs Olga Rojas and Matthew Buechler for reminding us how much fun Zoom meetings can turn out to be.

It was great to celebrate in person, and to welcome new students and faculty members to our Immunology community, and to thank our wonderful departmental staff for the amazing job that they do. I also took the opportunity to thank **Sherry Kuhn** for her over 20 years of tremendous service to the Department as our Business Officer, and to wish her well all the best on her retirement.

The evening also featured a wonderful performance by Anthony Wong, who delighted us with his singing. As is tradition, we also recognized the achievements of several of our students: Carmen Ucciferri (Dunn lab) with the new Applied Immunology MSc Award; Ryder Whittaker Hawkins (Rottapel lab) with the Cinader Prize; Pailin Chiaranunt (Mortha lab) with the Richard G. Miller Award; Siu Ling Tai (Mortha lab) with the Immunology Outreach Award; and, Faith Weshba and Charles Carr with the Undergraduate Immunology Prize. Additionally, Tania Watts was recognized with the Gillian E. Wu Graduate Mentorship in Immunology Award. The centerpiece competition winners were from the Kaul lab, with a piece that is hard to describe for a broad audience. Congratulations to all the winners.

Later this month, we will be gathering for a half-day symposium (Jan. 20) and memorial (Jan. 21) in honour of Prof. James Carlyle, who sadly passed away last month. I hope many of you will be able to join us in celebrating Jim's achievements and contributions to UofT Immunology.

Wishing all the very best for a great 2023.

UPCOMING EVENTS

CHARLES GOULD EASTON SEMINARS (11:05am @ MSB 2170)

Monday, January 9, 2023

Dr. Florian Krammer

Professor, Vaccinology Dept of Microbiology, Icahn School of Medicine

Antibody responses to SARS-CoV-2 infection and vaccination

Host: Dr. Jennifer Gommerman

Monday, January 16, 2023

Dr. Kathy McCoy

Professor, Dept of Physiology & Pharmacology
University of Calgary
Scientific Director of the International Microbiome Centre
(IMC)

Microbes, Metabolites and Immunity

Host: Dr. Arthur Mortha

Monday, January 23, 2023

Dr. Ido Amit

Eden and Steven Romick Professorial Chair Weizmann Institute of Science

The power of ONE: Immunology in the age of single cell genomics

Host: Dr. Tracy McGaha

Monday, January 30, 2023

Dr. Matthew Macauley

Associate Professor, Faculty of Science - Chemistry
University of Alberta

Siglec-mediated control of immune responses

Host: Dr. Jean-Philippe Julien







UPCOMING EVENTS

STUDENT SEMINARS (10:00 am @ MSB 2172)

Monday, January 9, 2023	
Aniqa Khan	Boyan Konstantinov Tsankov
(Robbins lab)	(Philpott lab)
Monday, January 16, 2023	
Julius Landas	Ruth Li
(Zúñiga-Pflücker lab)	(Zúñiga-Pflücker lab)
Monday, January 23, 2023	
Martin Mak	Diana Nakib
(Crome lab)	(MacParland lab)
Monday, January 30, 2023	
Carol Nassar	Natalia Ogrodnik
(Wither lab)	(Martin lab)

UPDATE ABOUT OUR GRADUATE PROGRAMS

ADMISSIONS

Applications are now being accepted for our graduate programs – get your applications in!

PhD and Applied Imm MSc (Standard Entry) – September 2023 start – Deadline: January 15, 2023

Applied Imm MSc (Advanced Standing Entry)* – May 2023 start – Deadline: March 1, 2023

*undergraduate students in IMM450Y1 could be eligible for Advanced Standing entry to the Applied Immunology MSc program

Please visit <u>our website</u> for detailed information on admission requirements and application procedures.

AWARD DEADLINES

Undergraduate students hoping to begin a graduate program in 2023 are encouraged to apply for the Ontario Graduate Scholarships (OGS) and the QEII Awards!

OGS (Domestic and International)

For more information on this competition, please visit the SGS website

Deadline: March 1, 2023



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- QEII / Aventis Pasteur (Dept. of Immunology students only)
 Complete an OGS application and you will be automatically considered for this award Deadline: March 1, 2023
- QEII / Dr. Dina Gordon Malkin (graduate students studying in haematology AND oncology whose supervisors are members of the Temerty Faculty of Medicine)

Complete an OGS application, and the Malkin cover page*

Deadline: March 1, 2023

*please email graduate.immunology@utoronto.ca for details

QEII / Temerty Faculty of Medicine (all Faculty of Medicine students)

Complete an <u>OGS application</u>, and this Faculty of Medicine <u>cover page</u> (this is an online form which will be submitted directly to Faculty of Medicine)

Deadlines: Application due March 1, 2023

Faculty of Medicine cover page due April 7, 2023 @ 5:00pm

UPDATE FROM THE W.I.D.E. COMMITTEE

Happy 2023 from your Wellness, Inclusion, Diversity, and Equity Committee! We hope the winter break was restful, restorative, and joyful for everyone.

This month we would like to recognize and commemorate several days of importance.

- On **January 22**nd we will join our East and Southeast Asian communities in wishing everyone a Happy **Lunar New Year!** 新年快乐, chúc mừng năm mới. May the year of the Rabbit bring good fortune and prosperity.
- January 27th is <u>International Holocaust Remembrance Day</u>. This date marks the anniversary of the liberation of Auschwitz-Birkenau in 1945. On this day we honour the victims of the Holocaust and all those that suffered from Nazism.
- In Canada, January 29th is the National Day of Remembrance of the Quebec City Mosque Attack and Action Against Islamophobia. This year marks the 6th anniversary of the terrorist attack at the Centre culturel islamique de Québec. We mourn and honour the victims of this tragedy and urge everyone to continue supporting their Muslim friends and families. For more resources: http://www.nccm.ca/



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One way to support our diverse community is to educate yourself about the challenges faced by members of marginalized communities and equip yourself with the tools to fight oppression and inequity. We strongly encourage you to register for the following upcoming training sessions offered by UofT's Anti-Racism and Cultural Diversity Office:

<u>Addressing Racial Microaggressions: Tools, Strategies and Discussions</u>

For Faculty and Staff (including Postdocs & Research Associates): January 26, 2023, 1:00-3:00pm, Virtual For Students: February 15, 2023, 5:30pm – 7:30pm, Virtual

Wishing you all a very happy, healthy, and fulfilling 2023,

-Your WIDE Committee-

UPDATE FROM THE IMMUNOLOGY STUDENTS' ASSOCIATION (IMMSA)

Hi Immunologists,

We hope everyone had a nice winter break with family and friends. We are sure you guys are ready and excited for the upcoming semester!

First off, we would like to thank those who filled out IMMSA's feedback survey. Your comments are very helpful for us as we are planning our new events next semester.

Secondly, the *Ontario-Quebec Undergraduate Immunology Conference* (OQUIC) will finally be held in-person this year. How exciting! We hope those who have done immunology-related research can apply and get a chance to present their research in front of students and researchers across Canada. This is a great chance for you to practice your presentation skills, interact with judges, and win cash prizes! This event will be held in early May, with more details coming soon.

Lastly, IMMSA will hold an in-person research information seminar in January, in which people from medical school, nursing school, or dentistry will be invited to speak. If you have any questions for our speakers, feel free to let us know beforehand!

Cheers,

Vicky Xie and Momo Lin
2022 – 2023 Immunology Students' Association Co-presidents
http://immsauoft.com/ | Instagram: @immsta

PS. Happy New Year! May the coming year be full of grand adventures and opportunities!!



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UPDATE FROM THE IMMUNOLOGY GRADUATE STUDENTS' ASSOCIATION (IGSA)

Happy New Year, fellow Immunologists!

It's hard to believe that it's already 2023 - time sure passes quickly when you're having fun doing experiments! We hope you all got some well-deserved rest over the holidays and are ready for the start of another exciting semester. We last saw everyone in December at our annual Department of Immunology Holiday Party, where we managed to raise over \$1000 in support of Nellie's, a local organization dedicated to the shelter, education, and advocacy of all women and children. We would like to thank all our donors and sponsors for their generous support to this meaningful cause, and congratulations to all those with successful bids in our Silent Auction.

Several notable events are in store for January, starting with a Welcome-Back Karaoke Night to get everyone back in on the action! Join us for a jam-packed evening of food, drinks, and singing your heart out in one of downtown Toronto's highest-rated karaoke bars. Make sure you bring your friends and get your song list ready in advance! For this event only, IGSA can't guarantee the safety of your hearing or your voice.

This is also a good time for participants of our mentorship program to check back in after the break. We will be having a return of our Mentorship Coffee Chats where mentor-mentee pairings are encouraged to find a chance to grab coffee together (or any drink of your choice!). This is an opportunity for mentees to ask for advice on topics such as integrating into the lab, getting started with your project, or handling the first-year course load. All drinks will be reimbursed by IGSA with the presentation of a valid receipt.

Student wellness has always been an important aspect of our community, so take some time to rebalance at the start of a new semester with a return of our virtual yoga/Pilates sessions. This is an easy, low-key, and accessible IGSA initiative to help our students maintain a healthy work-life balance. All you need to participate is a functioning laptop with Zoom installed! No previous experience is required, and participants of all levels are always welcome.

Finally, we would like to welcome the return of our intramural sports, which will be restarting in the second half of the month for the winter season. We currently have departmental teams registered for both volleyball and basketball, so remember to sign up on IMLeagues if you're interested in taking part! The season will last from January to March, and games will be held on Monday evenings at the University of Toronto Athletic Centre (55 Harbord St.). This is a great way for everyone to stay active during the long winter months, and there's nothing better than bonding with teammates over free bubble tea after a game! From all of us at IGSA, we would like to extend a warm welcome back. May your new year be filled with successful experiments, significant data, and high-impact publications.

Bobby and Meggie 2022-2023 IGSA Co-Presidents



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PUBLICATIONS

(for November 2022 as indexed by webofscience.com on December 31, 2022)

Suleman A, Tsui HB, Ghorab Z, Lam PW, Mozessohn L. EBV-positive diffuse large B-cell lymphoma following alemtuzumab therapy for T-cell prolymphocytic leukemia. *Annals of Hematology*. Online ahead of print.

Scur M, Mahmoud AB, Dey S, Abdalbarri F, Stylianides I, Medina-Luna D, Gamage GS, Woblistin A, Wilson ANM, Zein HS, Stueck A, Wight A, Aguilar OA, Di Cara F, Parsons BD, Rahim MMA, Carlyle JR, Makrigiannis AP. 2022. Alveolar macrophage metabolic programming via a C-type lectin receptor protects against lipotoxicity and cell death. *Nature Communications*. **13(1)**.

Panneh M, Gafos M, Nyariki E, Liku J, Shah P, Wanjiru R, Wanjiru M, Beksinska A, Pollock J, Jama Z, Babu H, Kaul R, Seeley J, Bradley J, Kimani J, Beattie T. 2022. Mental health challenges and perceived risks among female sex Workers in Nairobi, Kenya. *BMC Public Health*. **22(1)**.

Hung L, Celik A, Yin XJ, Yu K, Berenjy A, Kothari A, Obernolte H, Upton JEM, Bogh KL, Somers GR, Siddiqui I, Grealish M, Quereshy FA, Sewald K, Chiu PPL, Eiwegger T. Precision cut intestinal slices, a novel model of acute food allergic reactions. *Allergy*. Online ahead of print.

Medeiros P, Warren L, Kazemi M, Massaquoi N, Smith S, Tharao W, Serghides L, Logie CH, Kroch A, Burchell AN, de Pokomandy A, Kaida A, Loutfy M, CHIWOS Res Team. HIV care cascade for women living with HIV in the Greater Toronto Area versus the rest of Ontario and Canada. *International Journal of STD & AIDS*. Online ahead of print.

Lau YMA, Pang J, Tilstra G, Couture-Senecal J, Khan OF. The engineering challenges and opportunities when designing potent ionizable materials for the delivery of ribonucleic acids. *Expert Opinion on Drug Delivery*. Online ahead of print.

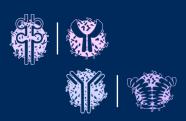
Molina-Gonzalez I, Miron VE, Antel JP. 2022. Chronic oligodendrocyte injury in central nervous system pathologies. *Communications Biology*. **5(1)**.

Lee MG, Du HX, Winer DA, Clemente-Casares X, Tsai S. 2022. Mechanosensing in macrophages and dendritic cells in steady-state and disease. *Frontiers in Cell and Developmental Biology*. **10**.

Wang YB, Wu SR, Zhang C, Jin YS, Wang XH. 2022. Dissecting the Role of N-Glycan at N413 in Toll-like Receptor 3 via Molecular Dynamics Simulations. *Journal of Chemical Information and Modeling*. **62(21):**5258-5266.

Saghian R, Cahill LS, Debebe SK, Rahman A, Serghides L, McDonald CR, Weckman AM, Kain KC, Sled JG. 2022. Allometric scaling relationships in mouse placenta. *Journal of the Royal Society Interface*. **19(196)**.

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Sigvardsson M, Kee BL, Zuniga-Pflucker JC, Anderson MK. 2022. Editorial: Molecular switches of the immune system: The E-protein/Id axis in hematopoietic development and function. *Frontiers In Immunology*. 13.

Ishigaki K, Sakaue S, Terao C, Luo Y, Sonehara K, Yamaguchi K, Amariuta T, Too CL, Laufer VA, Scott IC, Viatte S, Takahashi M, Ohmura K, Murasawa A, Hashimoto M, Ito H, Hammoudeh M, Al Emadi S, Masri BK, Halabi H, Badsha H, Uthman IW, Wu X, Lin L, Li T, Plant D, Barton A, Orozco G, Verstappen SMM, Bowes J, MacGregor AJ, Honda S, Koido M, Tomizuka K, Kamatani Y, Tanaka H, Tanaka E, Suzuki A, Maeda Y, Yamamoto K, Miyawaki S, Xie G, Zhang JY, Amos CI, Keystone E, Wolbink G, Van der Horst-Bruinsma I, Cui J, Liao KP, Carroll RJ, Lee HS, Bang SY, Siminovitch KA, de Vries N, Alfredsson L, Rantapaa-Dahlqvist S, Karlson EW, Bae SC, Kimberly RP, Edberg JC, Mariette X, Huizinga T, Dieude P, Schneider M, Kerick M, Denny JC, Matsuda K, Matsuo K, Mimori T, Matsuda F, Fujio K, Tanaka Y, Kumanogoh A, Traylor M, Lewis CM, Eyre S, Xu HJ, Saxena R, Arayssi T, Kochi Y, Ikari K, Harigai M, Gregersen PK, Yamamoto K, Bridges SL, Padyukov L, Martin J, Klareskog L, Okada Y, Raychaudhuri S. 2022. Multi-ancestry genome-wide association analyses identify novel genetic mechanisms in rheumatoid arthritis. *Nature Genetics*. 54(11):1640.

Murata K, Ly D, Saijo H, Matsunaga Y, Sugata K, Ihara F, Oryoji D, Ohashi Y, Saso K, Wang CH, Zheng EYF, Burt BD, Butler MO, Hirano N. 2022. Modification of the HLA-A*24:02 Peptide Binding Pocket Enhances Cognate Peptide-Binding Capacity and Antigen-Specific T Cell Activation. *Journal of Immunology*. **209(8)**:1481-1491.