

SAIS NEWSLETTER - NOVEMBER 29th, 2019

Dear SAIS members,

Below, please find this week's newsletter.

FUNDING CALLS, CONFERENCES, WEBINARS and ANNOUNCEMENTS

CAR T-Cell Therapy: Overcoming Toxicities - The Scientist Webinar - December 2 - 2:30 - 4:00 PM, Eastern Time

Topics to be Covered: *Diagnosing and managing CAR T cell therapy-related toxicities; *Identifying early predictive toxicity markers in patients treated with CAR T cell therapy. <https://www.the-scientist.com/sponsored-webinars/car-t-toxicities-66687>.

Connecting B Cell Biology with Antibody Structure, Function and Applications – Gordon Research Seminar - March 15-20, 2020 - Ventura, CA, US

Applications for this meeting must be submitted by February 16, 2020. The conference will connect basic scientific aspects of B cell and antibody biology with applications to clinical antibody development, with key topics including antibodies targeting infectious disease agents, immunoglobulin effector function, antibody engineering, antibody structure, and pre-clinical antibody development. For more information and registration, please visit <https://www.grc.org/antibody-biology-and-engineering-conference/2020/>.

The joint Innovation Bridge (IB) Technology Matchmaking and Showcasing and Science Forum South Africa (SFSA) - 4-6 December - CSIR International Convention Centre

Taking place under the theme "Igniting conversations about science for innovation with impact", this collaboration will create a unique platform for debate on the role of science, technology and innovation in society. At the same time, local technologies generated from publicly financed research and development will be showcased, with the aim of securing partners to convert these technologies into products and services that impact the lives of ordinary people. For registration - <https://innovationbridge.info/ibportal/?q=innovation-bridge-event/register>.

The 30th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID) - 18-21 April 2020 - Paris, France

Deadline for abstract submission has passed; however, there is still time to register - Early Bird registration deadline 30 January 2020. Please visit <https://www.eccmid.org/> for more information and registration.

The clinical implications of high sensitive assays for HBsAg - Labroots webinar - December 05 - 05:00 AM PST

Learning Objectives: Review the natural history of HBV infection and the progress in HBsAg testing; Understand the mechanism and clinical implications of HBV reactivation; Acknowledge the medical improvements linked to a better sensitivity for HBsAg. For registration - <https://www.labroots.com/webinar/clinical-implications-sensitive-assays-hbsag>.

New Horizons in B Cell Biology conference - 13-15 January 2020 - Shanghai, China - early bird registration deadline has been extended until 6 December 2019

Please visit <http://nhbcb2020.csp.escience.cn/dct/page/1> for more information.

PUBLICATIONS and INTERESTING READS:

Tapping into a conserved energy supply

Humans and fruit flies use the same mechanism to metabolically rewire their immune cells to fight off bacterial infections. <https://elifesciences.org/digests/50414/tapping-into-a-conserved-energy-supply>.

Differential impact of self and environmental antigens on the ontogeny and maintenance of CD4+ T cell memory

<https://elifesciences.org/articles/48901>.

Neuronal GPCR NPR-8 regulates C. elegans defense against pathogen infection

<https://advances.sciencemag.org/content/5/11/eaaw4717>.

Elucidating the integrative role of an inflammation resolution sensor in obesity and heart failure

<https://www.uab.edu/news/research/item/10930-elucidating-the-integrative-role-of-an-inflammation-resolution-sensor-in-heart-failure>.

<https://www.sciencedirect.com/science/article/pii/S2212877819309330?via%3Dihub>.

Transcription factor T-bet in B cells modulates germinal center polarization and antibody affinity maturation in response to malaria

[https://www.cell.com/cell-reports/fulltext/S2211-1247\(19\)31409-3](https://www.cell.com/cell-reports/fulltext/S2211-1247(19)31409-3).

Transcriptomic signatures predict regulators of drug synergy and clinical regimen efficacy against tuberculosis

<https://mbio.asm.org/content/10/6/e02627-19>.

Magnesium deprivation stops pathogen growth

<https://www.unibas.ch/en/News-Events/News/Uni-Research/Magnesium-deprivation-stops-pathogen-growth.html>.

Creating viral targets can weaken HIV vaccination, Emory scientists warn

https://news.emory.edu/stories/2019/11/yerkes_stm_toomuchth1/index.html.

PPAR α -targeted mitochondrial bioenergetics mediate repair of intestinal barriers at the host–microbe intersection during SIV infection

<https://www.pnas.org/content/early/2019/11/15/1908977116>.

Dissecting connections between chronic stress, inflammation and depression

<https://jagwire.augusta.edu/dissecting-connections-between-chronic-stress-inflammation-and-depression/>.

Dengue cases drop After bacteria-infected mosquitoes released

Aedes aegypti infected with *Wolbachia*—which inhibit transmission of the dengue virus from insect to human—were deployed in Indonesia, Vietnam, Brazil, and Australia. <https://www.the-scientist.com/news-opinion/dengue-cases-drop-after-bacteria-infected-mosquitoes-released-66772>.

Rhabdo-immunodeficiency virus, a murine model of acute HIV-1 infection

<https://elifesciences.org/articles/49875>.

Persistent *Mycobacterium tuberculosis* infection in mice requires PerM for successful cell division

<https://elifesciences.org/articles/49570>.



New Elsevier report charts global trends in HIV/AIDS research

The UK and South Africa are chasing the US in the run for top producer of HIV/AIDS-related research, per new analysis for #WAD2019. <https://www.elsevier.com/connect/new-elsevier-report-charts-global-trends-in-hivaids-research>.

JOBS and POSITIONS

Harvard Medical School (HMS) Master of Medical Sciences in Immunology (MMSc IMM) Program - the application for Fall 2020 is now open!

The application deadline for international students is April 15, 2020. Please find more details at <http://mmscimmunology.hms.harvard.edu/>.

Please don't forget to send me any info you may have on funding opportunities, meetings, workshops and/or conferences, so I can post it on the SAIS LinkedIn page. Additionally, if you are recruiting/hiring, I am more than happy to advertise it on LinkedIn and in the newsletter.

Kind regards

Dana Savulescu (PhD), Pr.Sci.Nat.

Mobile: +27 74 6800082

Email: danams79@gmail.com