DEAR SAIS MEMBERS

Please find this week's newsletter below. The next newsletter will be sent out on Friday, 20 March 2020.

FUNDING CALLS, CONFERENCES, WEBINARS and ANNOUNCEMENTS

WEBINAR: Investigation of NK cell-driven tumor immunity using novel image cytometry detection method, 31 March 2020, 7:00 AM PDT.
For more information, please visit:

NRF one call for proposals 2020
The NRF One Call for Proposals 2020 is open. This call consists of many funding programmes including postgraduate bursaries and postdoctoral fellowships. Please see the list below:
All Framework and Funding and Application Guide documents are available on the NRF website at https://www.nrf.ac.za/funding/framework-documents.
Applications must be submitted to the NRF by the Institutional closing dates - please contact your institution representative for internal date.
Applications must be submitted electronically on the NRF Online Submission System at https://nrfsubmission.nrf.ac.za.

INTRODUCTION TO BIOSTATISTICS: A SHORT COURSE - 31 March – 3 April 2020, SAMRC Durban
The Biostatistics Unit (BU) of the South African Medical Research Council (SAMRC) will offer a four-day course in basic biostatistics. The course will cover principles and concepts of statistical methods that are generally used and applied in the wider field of biomedical research including public health, epidemiology and clinical science. RSVP: 13 March 2020. To register please visit: https://samrc-redcap.mrc.ac.za/surveys/index.php?s=YHRRCFR8YH

REMINDER: FOCIS 2020 - 23-26 June 2020, San Francisco Marriott Marquis, California, USA.
Through the FOCIS Annual Meeting, researchers and clinicians share knowledge across traditional disease borders, and identify commonalities between treatments and therapies that are life changing for those affected with immune-mediated diseases. Abstract submission, meeting registration and hotel reservations are now open! For more information, please visit: http://www.focisnet.org/meetings/focis-2020/?utm_source=Email&utm_medium=link&utm_campaign=Promotion:

PUBLICATIONS and INTERESTING READS:

New insight into mumps, flu and RSV
Discovery could give insight into coronavirus, which has similar features and functions.
Targeting turncoat immune cells to treat cancer

Effect of bisphenol A on human neutrophils immunophenotype
https://www.nature.com/articles/s41598-020-59753-2

An analytically and diagnostically sensitive RNA extraction and RTqPCR protocol for peripheral blood mononuclear cells

Multiplex screening assay for identifying cytotoxic CD8+ T cell epitopes

Artificial intelligence yields new antibiotic

Both IDO1 and TDO contribute to the malignancy of gliomas via the Kyn–AhR–AQP4 signaling pathway
https://www.nature.com/articles/s41392-019-0103-4

Switching off DNA repair—how colorectal cancer evades targeted therapies through adaptive mutability
https://www.nature.com/articles/s41392-020-0120-3

Primary and secondary anti-viral response captured by the dynamics and phenotype of individual T cell clones
https://elifesciences.org/articles/53704

How COVID-19 Is Spread

Scientists may have a way to let preemies breath easier - Insulin-like Growth Factor 1 Supports a Pulmonary Niche that Promotes Type 3 Innate Lymphoid Cell Development in Newborn Lungs

The behavioral, cellular and immune mediators of HIV-1 acquisition: New insights from population genetics
https://www.nature.com/articles/s41598-020-59256-0

A universal reporter cell line for bioactivity evaluation of engineered cytokine products
https://www.nature.com/articles/s41598-020-60182-4

Matrix metalloproteinases and tissue inhibitor of metalloproteinases are potential biomarkers of pulmonary and extra-pulmonary tuberculosis

Anti-PD-1 immunotherapy leads to tuberculosis reactivation via dysregulation of TNF-α
https://elifesciences.org/articles/52668

Women in immunology: 2020 and beyond
https://www.nature.com/articles/s41590-020-0618-4
Leucine-rich alpha 2 glycoprotein is a new marker for active disease of tuberculosis
https://www.nature.com/articles/s41598-020-60450-3

Novel pathways of HIV latency reactivation revealed by integrated analysis of transcriptome and target profile of bryostatin
https://www.nature.com/articles/s41598-020-60614-1

Better Epitope Discovery, Precision Immune Engineering and Accelerated Vaccine Design Using Immunoinformatics Tools

Extracellular Vesicles as Mediators of Cellular Crosstalk Between Immune System and Kidney Graft

Vaccination Against Tuberculosis: Revamping BCG by Molecular Genetics Guided by Immunology

Mass cytometry reveals cellular fingerprint associated with IgE+ peanut tolerance and allergy in early life
https://www.nature.com/articles/s41467-020-14919-4

CRISPR-engineered T cells in patients with refractory cancer
https://science.sciencemag.org/content/367/6481/eaba7365

Singapore claims first use of antibody test to track coronavirus infections

Multiplexed Proteomic Analysis for Diagnosis and Screening of Five Primary Immunodeficiency Disorders from Dried Blood Spots

Myeloid Cell-Mediated Trained Innate Immunity in Mucosal AIDS Vaccine Development

Gradient acoustic focusing of sub-micron particles for separation of bacteria from blood lysate
https://www.nature.com/articles/s41598-020-60338-2

Genetic and pharmacological inhibition of inflammasomes reduces the survival of Mycobacterium tuberculosis strains in macrophages
https://www.nature.com/articles/s41598-020-60560-y

PAX1 is essential for development and function of the human thymus
https://immunology.sciencemag.org/content/5/44/eaax1036

B cells control lupus autoimmunity by inhibiting Th17 and promoting Th22 cells
https://www.nature.com/articles/s41419-020-2362-y

Evaluation of the efficiency of dried blood spot-based measurement of hepatitis B and hepatitis C virus seromarkers
https://www.nature.com/articles/s41598-020-60703-1
JOBS and POSITIONS

CSIRO Postdoctoral Fellowship in Allergen detection using on-the-spot diagnostics
This project will couple advanced proteomics, novel protein-bioconjugation and biosensing to develop significantly improved antibody-based diagnostics for the detection of food allergens. Applications close 19 March 2020, 11:00 pm AEST/AEDT. For more information, please visit: https://jobs.csiro.au/job/Brisbane,-QLD-ResearchPlus-CSIRO-Postdoctoral-Fellowship-in-Allergen-detection-using-on-the-spot-diagnostics/631722300/?from=email&refid=5625323000&utm_source=J2WEmail&source=2&eid=17800-202037211237-11748019300&locale=en_GB

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.

Thank you.

Kind regards

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