

SAIS NEWSLETTER - FEBRUARY 21st, 2020

Dear SAIS members

Please find this week's newsletter below. The next newsletter will be sent out on Friday, 6 March 2020.

FUNDING CALLS, CONFERENCES, WEBINARS and ANNOUNCEMENTS

South Africa Fulbright Foreign Student Program

Applications are open for the 2021-2022 academic year. Closing date for applications is April 20, 2020. For more information, please visit: <https://za.usembassy.gov/education-culture/fulbright-postgraduate/>

L'Oreal-UNESCO Sub-Saharan Africa Young Talents Programme 2020 for African Women in Science

Deadline for applications: 30 March 2020. For more information on the programme and application process, please visit: <https://www.forwomeninscience.com/en/fellowships/563718998>

Afro-ADVAC: 7-16 September 2020, Johannesburg, South Africa

The African Advanced Vaccinology course (Afro-ADVAC) is a 10-day long course in advanced vaccinology, aimed at decision-makers in the field of vaccinology. Applications close on 31 March 2020. For more information, please visit: <http://www.wits-alive.ac.za/Afro-ADVAC>

SAVE THE DATE: THE IUIS 2022 CONGRESS - 18th International Congress of Immunology, 15-20 August 2022, Cape Town, South Africa.

The International Congress of Immunology (IUIS) is the world's leading conference in the field of immunology. Every three years the IUIS Congress assembles immunologists from industry, university, health providers and independent research organisations. For more information please visit: <https://iuis2022.org/>

NIH - International Research in Infectious Diseases Grant Opportunity

Topics of interest for this program are limited to research on infectious diseases. Application deadline: July 15, 2020. For more information, please visit: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-108.html>

WEBINAR: Deciphering immuno-oncology: Targeting cellular mechanisms of the tumor immune response -

Wednesday, 26 February 2020, 12:00 p.m. ET. <https://www.sciencemag.org/custom-publishing/webinars/deciphering-immuno-oncology-targeting-cellular-mechanisms-tumor-immune>

Gordon Research Seminar - Fungal Diversity, Genetics and Pathogenicity - June 20 - 21, 2020 - Holderness, NH, US

Applications for this meeting must be submitted by May 23, 2020. Please apply early, as some meetings become oversubscribed (full) before this deadline. Although applications will be accepted until the date noted above, any applicants who wish to be considered for an oral presentation should submit their application by March 20, 2020. For more details and applications, please visit: <https://www.grc.org/cellular-and-molecular-fungal-biology-grs-conference/2020/>

SAVE THE DATE: SASBMB 2020: The 27th SASBMB biannual conference - 5-8 July 2020, Pretoria, South Africa.

For more information, please visit: <https://www.up.ac.za/cf-sasbmb2020/>

SAVE THE DATE: 11th African Congress of Immunology, 2nd Annual Meeting of the Immunology Society of Malawi - "Immunity and immunotherapeutics in Africa: Tackling the burden of disease", 29th November – 3rd December 2020, Bingi International Conference Centre, Lilongwe, Malawi
<https://www.faisafrica.com/upcomingMeetings/11th-african-congress-of-immunology/>

The 14th International Congress of Human Genetics (ICHG 2021): 7-11 March 2021, Cape Town, South Africa.

This congress presents an opportunity to showcase Genetics/Genomics across the world, bringing together international experts, as well as young postgraduates addressing challenges in human health and highlighting how genomic technologies are being harnessed to address such challenges.
For more information, please visit: <https://www.ichg2021.com/>

PUBLICATIONS and INTERESTING READS:

Quantitative analysis of how Myc controls T cell proteomes and metabolic pathways during T cell activation
<https://elifesciences.org/articles/53725>

CRISPR-engineered T cells in patients with refractory cancer
<https://science.sciencemag.org/content/early/2020/02/05/science.aba7365>

HIV-1 Vaccine Sequences Impact V1V2 Antibody Responses: A Comparison of Two Poxvirus Prime gp120 Boost Vaccine Regimens
<https://www.nature.com/articles/s41598-020-57491-z>

Quantitative analysis of human NK cell reactivity using latex beads coated with defined amounts of antibodies
<https://onlinelibrary.wiley.com/doi/abs/10.1002/eji.201948344>

Defective HIV-1 proviruses produce viral proteins
<https://www.pnas.org/content/early/2020/02/05/1917876117>

Intratumoral injection of the seasonal flu shot converts immunologically cold tumors to hot and serves as an immunotherapy for cancer
https://www.pnas.org/content/117/2/1119?ijkey=6f280e5f567ef9f0d0d047b0f59dad7f7061060&keytype2=tf_ipsecsha

Glycan repositioning of influenza hemagglutinin stem facilitates the elicitation of protective cross-group antibody responses
<https://www.nature.com/articles/s41467-020-14579-4>

Investigating the Links Between Viruses and Cancer
<https://www.labroots.com/trending/microbiology/16770/investigating-links-viruses-cancer>

Cell-Mediated Immune Responses to in vivo-Expressed and Stage-Specific Mycobacterium tuberculosis Antigens in Latent and Active Tuberculosis Across Different Age Groups
<https://www.frontiersin.org/articles/10.3389/fimmu.2020.00103/full>

Characteristics of Plasmablast Repertoire in Chronically HIV-Infected Individuals for Immunoglobulin H and L Chain Profiled by Single-Cell Analysis
<https://www.frontiersin.org/articles/10.3389/fimmu.2019.03163/full>

Inhibition of HIV Replication by Apolipoprotein A-I Binding Protein Targeting the Lipid Rafts

<https://mbio.asm.org/content/11/1/e02956-19>

A Fast and Sensitive Luciferase-based Assay for Antibody Engineering and Design of Chimeric Antigen Receptors

<https://www.nature.com/articles/s41598-020-59099-9>

Full-length title: Dramatic HIV DNA degradation associated with spontaneous HIV suppression and disease-free outcome in a young seropositive woman following her infection

<https://www.nature.com/articles/s41598-020-58969-6>

Using genomics to understand the origin and dispersion of multidrug and extensively drug resistant tuberculosis in Portugal

<https://www.nature.com/articles/s41598-020-59558-3>

Protein that suppresses immune system linked to lupus

<https://www.labroots.com/trending/immunology/16787/protein-suppresses-immune-system-linked-lupus>

Link to research article: <https://www.sciencedirect.com/science/article/pii/S0198885919313023>

Epigenetic inhibitors target multiple stages of Plasmodium falciparum parasites

https://www.nature.com/articles/s41598-020-59298-4?error=cookies_not_supported&code=c91c098f-9911-4505-b47c-a1e6a64cb0b6

As coronavirus spreads, the time to think about the next epidemic is now

World leaders and international donors must strengthen the most vulnerable nations' health-care systems.

<https://www.nature.com/articles/d41586-020-00379-9>

9?utm_source=fbk_nnc&utm_medium=social&utm_campaign=naturenews&sf230068190=1

Macrophages employ quorum licensing to regulate collective activation

<https://www.nature.com/articles/s41467-020-14547-y>

NOX2-derived reactive oxygen species in immune cells exacerbates salt-sensitive hypertension

<https://www.sciencedirect.com/science/article/pii/S089158491931603X?via%3Dihub>

Can Ebola help treat glioblastomas?

<https://www.labroots.com/trending/cancer/16818/ebola-help-treat-glioblastomas>

Link to research article: <https://jvi.asm.org/content/early/2020/02/06/JVI.01967-19>

Neutrophil extracellular trap-enriched supernatants carry microRNAs able to modulate TNF- α production by macrophages

<https://www.nature.com/articles/s41598-020-59486-2>

Neonatal-derived IL-17 producing dermal $\gamma\delta$ T cells are required to prevent spontaneous atopic dermatitis

<https://elifesciences.org/articles/51188>

Defective HIV-1 proviruses produce viral proteins

<https://www.pnas.org/content/early/2020/02/05/1917876117.long>

Classical Activation of Macrophages Leads to Lipid Droplet Formation Without de novo Fatty Acid Synthesis

<https://www.frontiersin.org/articles/10.3389/fimmu.2020.00131/full>

Plasmodium-infected erythrocytes induce secretion of IGFBP7 to form type II rosettes and escape phagocytosis

<https://elifesciences.org/articles/51546>

Antibody Fc Glycosylation Discriminates Between Latent and Active Tuberculosis

<https://academic.oup.com/jid/advance-article/doi/10.1093/infdis/jiz643/5736363?searchresult=1>

Plasma protein profiling reflects Th1-driven immune dysregulation in common variable immunodeficiency

[https://www.jacionline.org/article/S0091-6749\(20\)30189-5/abstract](https://www.jacionline.org/article/S0091-6749(20)30189-5/abstract)

Immune checkpoint modulation enhances HIV-1 antibody induction

<https://www.nature.com/articles/s41467-020-14670-w>

Forget complicated scans - ovarian cancer can be detected in the blood

<https://www.labroots.com/trending/clinical-and-molecular-dx/16850/forget-complicated-scans-ovarian-cancer-detected-blood>. Link to article: <https://www.nature.com/articles/s41598-020-59009-z>

Exhaled Mycobacterium tuberculosis output and detection of subclinical disease by face-mask sampling: prospective observational studies

[https://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(19\)30707-8/fulltext](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(19)30707-8/fulltext)

https://www.up.ac.za/news/post_2874876-pioneering-research-by-university-of-pretoria-and-university-of-leicester-revolutionises-early-detection-of-tb

JOBS and POSITIONS

Medical Research manager - Khayelitsha, Western Cape

TO APPLY: please email a one page application letter, your comprehensive CV with details of 3 contactable referees to: msfocb-khayelitsha-hr@brussels.msf.org by **18 February 2020**. For more information, please visit: <https://www.msf.org.za/work-with-us/work-our-offices/job-postings/medical-research-manager-welcome-services-khayelitsha>

Scientist - T cell Immuno-Oncology, Pfizer, United States - California - La Jolla.

The T cell Immuno-Oncology (I-O) group in Pfizer is building a world-class immunology team and is seeking a highly motivated and creative Scientist to join a group of researchers evaluating novel therapies in the fields of Cancer Immunotherapy, Immune Checkpoint Biology, and Innate Immunity. For more information, please visit: https://pfizer.wd1.myworkdayjobs.com/PfizerCareers/job/United-States---California---La-Jolla/Scientist--T-cell-Immuno-Oncology_4777920-3

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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