

## SAIS NEWSLETTER – MAY 8<sup>th</sup>, 2020

Dear SAIS members

Please find this week's newsletter below. The next newsletter will be sent out on Friday, 15 May 2020.

---

### FUNDING CALLS, CONFERENCES, WEBINARS and ANNOUNCEMENTS

#### **IUIS-Frontiers Webinar Series on COVID-19**

Rachel Humphrey: What cancer immunologists are doing about COVID-19, 4 May 2020, 16:00 (UTC+2)

Andreas Radbruch: Adaptive Immunity in COVID-19, 11 May 2020, 16:00 (UTC+2) - Adaptive Immunity: Memory, Protection and Immunopathology in COVID-19

For more information and register, please visit: <https://iuis.org/webinars/>

#### **Webinar: The management of PLWH in the context of the COVID-19 outbreak (Prof. Francois Venter) - May 12 - 07:00 PM**

Given the high prevalence of HIV in South Africa, it is important to understand the natural history of COVID-19 in PLWH and to examine the potential impact of treatments that may be given. To register, please visit: [https://event.on24.com/eventRegistration/EventLobbyServlet?target=reg20.jsp&partnerref=Clin\\_Society&eventid=2321905&sessionid=1&key=81BB4E6625BDB9DDAAA5C98832E7D205&regTag=&sourcepage=register](https://event.on24.com/eventRegistration/EventLobbyServlet?target=reg20.jsp&partnerref=Clin_Society&eventid=2321905&sessionid=1&key=81BB4E6625BDB9DDAAA5C98832E7D205&regTag=&sourcepage=register)

#### **The African Academy of Sciences - Funding for Covid-19 Research & Development Goals for Africa**

The African Academy of Sciences (AAS) is keen to play a central role in building African Research and Development (R&D) capacity to fight COVID-19 by managing day-to-day running of the proposed fund for COVID-19 R&D priorities in Africa. Deadline: Tuesday, June 30, 2020

<https://www.aasciences.africa/calls/funding-covid-19-research-development-goals-africa>

#### **Multilateral call for solutions for COVID-19 Echo Period – Life without a vaccine**

Participants are invited to submit research and innovation project proposals aiming to provide short to medium-term responses to COVID-19 specific needs. Eureka application deadline - 15 May 2020

<https://www.eurekanetwork.org/content/multilateral-call-solutions-covid-19-echo-period>

---

### PUBLICATIONS and INTERESTING READS:

#### **Developing a vaccine for COVID-19: what can we learn from past outbreaks?**

<https://wellcome.ac.uk/news/developing-vaccine-covid-19-what-can-we-learn-past-outbreaks>

#### **How Coronavirus Mutates and Spreads**

<https://www.nytimes.com/interactive/2020/04/30/science/coronavirus-mutations.html>

#### **Cytokine release syndrome in severe COVID-19**

<https://science.sciencemag.org/content/368/6490/473>

**Reduction and Functional Exhaustion of T Cells in Patients With Coronavirus Disease 2019 (COVID-19)**

[https://www.frontiersin.org/articles/10.3389/fimmu.2020.00827/full?utm\\_campaign=ba-cov-sci-fimmu-t-cell-exhaustion&utm\\_medium=cvlp&utm\\_source=fweb](https://www.frontiersin.org/articles/10.3389/fimmu.2020.00827/full?utm_campaign=ba-cov-sci-fimmu-t-cell-exhaustion&utm_medium=cvlp&utm_source=fweb)

**Sestrins teach old T cells new tricks**

<https://immunology.sciencemag.org/content/5/47/eabc4460>

**A respiratory syncytial virus (RSV) F protein nanoparticle vaccine focuses antibody responses to a conserved neutralization domain**

<https://immunology.sciencemag.org/content/5/47/eaba6466>

**Regulatory T cells in skin injury: At the crossroads of tolerance and tissue repair**

<https://immunology.sciencemag.org/content/5/47/eaaz9631>

**Tissue memory CD4+ T cells expressing IL-7 receptor-alpha (CD127) preferentially support latent HIV-1 infection**

<https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1008450>

**Coronapod: What use are contact tracing apps? And new hopes for coronavirus drug remdesivir**

<https://www.nature.com/articles/d41586-020-01321-9>

**COVID-19: a case for inhibiting IL-17?**

<https://www.nature.com/articles/s41577-020-0328-z>

**IFN- $\gamma$  and IgG responses to Mycobacterium tuberculosis latency antigen Rv2626c differentiate remote from recent tuberculosis infection**

<https://www.nature.com/articles/s41598-020-64428-z>

**A microsporidian impairs Plasmodium falciparum transmission in Anopheles arabiensis mosquitoes**

<https://www.nature.com/articles/s41467-020-16121-y>

**Detection of SARS-CoV-2-specific humoral and cellular immunity in COVID-19 convalescent individuals**

[https://www.cell.com/immunity/fulltext/S1074-7613\(20\)30181-3](https://www.cell.com/immunity/fulltext/S1074-7613(20)30181-3)

<https://doi.org/10.1016/j.immuni.2020.04.023>

**Complex Immune Dysregulation in COVID-19 Patients with Severe Respiratory Failure**

[https://www.cell.com/cell-host-microbe/fulltext/S1931-3128\(20\)30236-5](https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(20)30236-5)

**Heightened innate immune responses in the respiratory tract of COVID-19 patients**

[https://www.cell.com/cell-host-microbe/fulltext/S1931-3128\(20\)30244-4](https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(20)30244-4)

**Winter the Llama: An Unlikely Hero in the Fight Against COVID-19**

<https://www.labroots.com/trending/immunology/17525/winter-llama-unlikely-hero-fight-covid-19>

Link to research article: [https://www.cell.com/pb-assets/products/coronavirus/CELL\\_CELL-D-20-00891.pdf](https://www.cell.com/pb-assets/products/coronavirus/CELL_CELL-D-20-00891.pdf)

**Immune cell profiling of COVID-19 patients in the recovery stage by single-cell sequencing**

<https://www.nature.com/articles/s41421-020-0168-9>



**Profile of a killer: the complex biology powering the coronavirus pandemic**

Scientists are piecing together how SARS-CoV-2 operates, where it came from and what it might do next — but pressing questions remain about the source of COVID-19.

<https://www.nature.com/articles/d41586-020-01315-7>

**The race is on for antibodies that stop the new coronavirus**

<https://www.sciencemag.org/news/2020/05/race-antibodies-stop-new-coronavirus>

**Rapid development of an inactivated vaccine candidate for SARS-CoV-2**

<https://science.sciencemag.org/content/early/2020/05/05/science.abc1932>

**Starvation and antimetabolic therapy promote cytokine release and recruitment of immune cells**

<https://www.pnas.org/content/117/18/9932>

**Unproven herbal remedy against COVID-19 could fuel drug-resistant malaria, scientists warn**

<https://www.sciencemag.org/news/2020/05/unproven-herbal-remedy-against-covid-19-could-fuel-drug-resistant-malaria-scientists>

**How do children spread the coronavirus? The science still isn't clear**

Schools are beginning to reopen — but scientists are still trying to understand what the deal is with kids and COVID-19.

<https://www.nature.com/articles/d41586-020-01354-0>

**Protective humoral immunity in SARS-CoV-2 infected pediatric patients**

<https://www.nature.com/articles/s41423-020-0438-3>

---

**JOBS and POSITIONS:**

**Chair of Systems Biology of Viruses - Institute of Virology, Hannover Medical School (MHH), GERMANY**

The Institute of Virology of Hannover Medical School (Director Prof. T. F. Schulz) and the German Centre for Infection Research (DZIF) plan to recruit an Associate Professor in Systems Virology. The post will be available from 1/9/2020. Application deadline: 28 May 2020. For more information, please visit: [https://mhh.hr4you.org/job/view/358/professur-fuer-systembiologie-der-viren?page\\_lang=de](https://mhh.hr4you.org/job/view/358/professur-fuer-systembiologie-der-viren?page_lang=de)

---

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

**Heena Ranchod (PhD)**

Tel: +27 11 386 6461

Email: HeenaR@nicd.ac.za

Linked In: <https://www.linkedin.com/in/heena-ranchod-44b96379/>