

FATS 2021 Conference Program

All times below are in Southern African time (Malawi and CET)

Sunday 1st August

3:00pm – 3:15pm **Welcome address: Henry Mwandumba**

Covid Symposium. Chair: Kondwani Jambo

3:15pm – 3:40pm **Ifedayo Adetifa**, KEMRI-Wellcome, Kenya, *SARS-CoV-2 seroprevalence in Africa*

3:40pm – 4:05pm **Jason Kindrachuk**, University of Manitoba, Canada, *Immunopathogenesis of COVID-19*

4:05pm – 4:30pm **Paul Moss**, University of Birmingham, UK, *Cellular immunity against SARS-CoV-2*

4:30pm – 4:55pm **Penny Moore**, NICD RSA, *Natural and vaccine-induced immunity against emerging variants*

4:55pm – 6:20pm **Marielle Karine Bouyou-Akotet**, Université des Sciences de la Santé, Gabon

6:20pm – 7:00pm **Round Table Discussion: Dr. Kondwani Jambo** (moderator)

Is there an immune basis for the lower burden of severe COVID-19 in Africa versus elsewhere?

- Clive Gray, RSA
- Henry Mwandumba, Malawi
- Jason Kindrachuk
- Paul Moss
- Marielle Karine Bouyou-Akotet
- Penny Moore

Monday 2nd August

10:00am – 10:05am **Introduction and Chair – Clive Gray**

10:05am – 10:45am **Keynote address – Siamon Gordon**, Mononuclear Phagocytes in health and COVID-19 infection

New Frontiers in Immunology. Chair: Lucy Ochola

10:45am – 11:15am **Plenary 1: Miriam Merad**, Pathogenic inflammation induced by COVID 19

11:15am – 11:45am **Plenary 2: Federica Sallusto**, Clonal analysis of the T and B cell responses to SARS-CoV-2

(12:00pm – 1:15pm) Parallel Sessions

11:45am – 1:15pm **Track 1 – Session 1: HIV Pathogenesis.** Chair: Eunice Nduati

Track 2 – Session 1: Cancer Epidemiology & Immunotherapy. Chair: Salem Chouaib

11:45am – 12:15pm **Mon-T1.1 Zaza Ndhlovu:** Lessons from Acute HIV infection that inform HIV cure strategies

Mon-T2.1 Asma Gati: Obesity and Breast Cancer: The multifactorial role of leptin

Abstract session 1

Abstract session 2

12:15pm – 12:30pm **Mon-T1.2 Louise Afran:** Characterisation of monocyte subsets in HIV-infected ART naïve Malawian adults and vasculopathy

Mon-T2.2 Ibtissam Rezoouki: Expression of V domain immunoglobulin suppressor of T cell activation (VISTA) in breast cancer and its correlation with clinicopathological parameters

12:30pm – 12:45pm **Mon-T1.3 Rebecca Chukwuanukwu:** Evaluation of some Immune Parameters in Diabetic HIV Positive Subjects in South-East Nigeria

Mon-T2.3 Joanina Gicobi: Metabolic fitness of resilient CD8+ T cells with high cytolytic capacity in human peripheral blood.

12:45pm – 1:00pm **Mon-T1.4 Cheusisime Kajanga:** HIV-infected individuals with Cryptococcal meningitis have impaired monocyte and neutrophil phagocytic function

Mon-T2.4 Ahmed Qandouci: TIGIT Is Positively Associated with clinical profile of Advanced Human Glioma and displays an immunosuppressive microenvironment.

1:00pm – 1:15pm **Mon-T1.5 Magalli Magnoumba:** Unbiased Profiling Reveals Compartmentalization of Unconventional T-Cells Within the Intestinal Mucosa Irrespective of HIV Infection

Mon-T2.5 Niang Doudou Georges Massar: Involvement of IL-17A and Galectin-3 levels in breast cancer metastasis: cases of Senegalese patients

Monday 2nd August (continued)

1:15pm – 3:00pm	Biostruct Symposium	
1:15pm – 2:10pm	Michel Modje: Introduction to structural biology	
2:15pm – 2:45pm	Emmanuel Nji: A structural biology approach to win the fight against infectious diseases	
2:45pm – 2:55pm	Emmanuel Nji: BioStruct-Africa: recent advances and future perspectives	
	New ways to examine immune systems. Chair: Tomabu Adjobimey	
3:00pm – 3:30pm	Plenary 3: Luke O'Neill, Adventures in Inflammation Research	
3:30pm – 4:00pm	Plenary 4: Joanna Groom, Targeting T cell interactions for tailored immunity	
4:00pm – 4:30pm	Plenary 5: Mark Davis, Adventures in Human Immunology	
(4:45pm – 6:15pm)	Parallel Sessions	
4:45pm – 6:15pm	Track 1 – Session 2: Molecular / Systems Immunology. Chair: Arinola Ganiyu	Track 2 – Session 2: Human Immunology & COVID-19. Chair: Samira Fafi-Kremer
4:45pm – 5:15pm	Mon-T1.6 Tom Scriba, T cell response determinants of tuberculosis disease progression	Mon-T2.6 Dorothy Yeboah-Manu, Bacterial Colonisation of the Gut
	Abstract session 3	Abstract session 4
5:15pm – 5:30pm	Mon-T1.7 Asma Chikhaoui: Melanoma inflammatory landscape in Xeroderma Pigmentosum patients: towards novel targets for cancer treatment	Mon-T2.7 Agness Ethel Lakudzala: Decline in antibodies to SARS-CoV-2 over 6 months among Health Care Workers in Blantyre, Malawi
5:30pm – 5:45pm	Mon-T1.8 Basma Zohair: The A2ar as an emerging immune checkpoint involved in the immunosuppression of the mammary tumor microenvironment	Mon-T2.8 Marah G Chibwana: Rapid decline of SARS-CoV-2 neutralising IgG antibodies in convalescent sera from Malawian adults following natural infection
5:45pm – 6:00pm	Mon-T1.9 El-Hadi Seninet: MicroRNA Profil expression in Primary biliary Cirrhosis	Mon-T2.9 Roanne S. Keeton: Studying durability of immune responses to sars-cov-2 in a cohort of healthcare workers after mild COVID-19
6:00pm – 6:15pm	Mon-T1.10 Gatien Lokossou: Low serum-derived Syncytin-2 levels in exosome at early pregnancy is a predictor of preeclampsia: a prospective pilot study in Benin, West Africa	Mon-T2.10 Thandeka Nkosi: Evaluation of SARS-CoV-2 specific T cell responses in HIV infected and uninfected individuals in KwaZulu-Natal province of South Africa.

Tuesday 3rd August

Malaria, bacteria and HIV and host immunity. Chair: Dorothy Yeboah-Manu

- 10:00am – 10:30am **Plenary 6: Phil Hansbro**, Understanding pathogenesis to develop new treatments for COVID-19
- 10:30am – 11:00am **Plenary 7: Gordon Awandare**, Investigating malaria parasite biology and immune responses in areas with varying *P. falciparum* transmission intensities
- 11:00am – 11:30am **Plenary 8: Erica Andersen-Nissen**, Innate Immune Signatures of HIV Vaccine Immunogenicity

(11:40am – 1:00pm) Parallel Sessions

- 11:30am – 1:15pm **Track 1 – Session 3: Malaria.** Chair: Priscilla Ngotho
- Track 2 – Session 3: HIV.** Chair: Gatién Lokossou
- 11:30am – 12:00pm **Tues-T1.1 Yaw Bediako**: Systems based investigation of correlates of anti-malarial immunity
- Tues-T2.1 Karin Lore**: Understanding the Fate of mRNA Vaccines in vivo and Mechanisms of Early Responses

Abstract session 5

- 12:00pm – 12:15pm **Tues-T1.2 Benjamin Amoani**: Effect of hookworm infection and anthelmintic treatment on naturally acquired antibody responses against the GM22 malaria vaccine candidate and constituent antigens
- 12:15pm – 12:30pm **Tues-T1.3 Rowland Osii**: Dendritic Cell Interactions with Malaria Parasites
- 12:30pm – 12:45pm **Tues-T1.4 Anja R Jensen**: Dual receptor-binding PfEMP1s that is associated with cerebral malaria allow parasites to enter human brain endothelial cells
- 12:45pm – 1:00pm **Tues-T1.5 James Abugri**: Age-related pattern and monocyte-acquired haemozoin associated production of erythropoietin in children with severe malarial anaemia in Ghana

Abstract session 6

- Tues-T2.2 Bongiwe Mahlobo**: Novel Surface Biomarkers, Location, And Function Of T Follicular Regulatory Cells In HIV-1 Clade C Infected Lymph Nodes
- Tues-T2.3 Bahiah Meyer**: A GIFT (Genital Inflammation Test) for identifying women with asymptomatic sexually transmitted infections and bacterial vaginosis who are at risk of HIV acquisition
- Tues-T2.4 Namani Ngema**: Characterization of cytotoxic lymphocytes in the lymph nodes during treated and untreated HIV-1 clade C infection.
- Tues-T2.5 Andrew Ekii Obuku**: HIV specific cellular attrition in HIV and *S. mansoni* coinfecting Ugandans

1:15pm – 3:00pm Lunch and Poster Session

Live Poster Discussion

Go to the ePosters Site (sent via FAIS@Burkinc.com blast) to talk to the poster presenters, live

- 1:15pm – 2:00pm **Even Posters** (P.2, P.4, P.6, etc)
- 2:15pm – 3:00pm **Odd Posters** (P.1, P.3, P.5, etc)

Posters

- P.1 **Isaac Acheampong**, Diagnostic utility of short-term IFN- γ based in-vitro assay for tuberculosis in a high-burden clinical setting
- P.2 **Yvonne Adams**, Cerebral malaria parasites and the blood-brain-barrier – spheroids for the investigation of endothelial invasion and transmigration
- P.3 **Ernest Adankwah**, CD27 expression of T-cells discriminates IGRA-negative TB patients from healthy contacts in Ghana
- P.4 **Seto Aladenika**, Urinary Tamm-Horsfall Protein in Pregnant Women with Urinary Tract Infection
- P.5 **Fahima Ameur**, The nitric oxide and metalloproteinases activities in Algerian Rheumatoid Arthritis patients
- P.6 **Wilfred Aniagyei**, Impact of anthelmintic therapy on pro-inflammatory markers in Mansonella perstans patients
- P.7 **Chiaka Anumudu**, Schistosomicidal Activities of Phytochemicals Derived from Jatropha Curcas Plants Using In Silico Docking Method
- P.8 **Olatunbosun Ganiyu Arinola**, Respiratory Burst Factors and White Blood Cell Counts in Nigerian COVID-19 Patients with or without Malaria Parasitaemia
- P.10 **Lagha Awatef**, Innate immunity in Rheumatoid arthritis: focus on TLR 2 (-194-174) and TLR 9 (2848 G>A) polymorphism in Tunisian patients
- P.11 **Henrietta Awobode**, Cytokine Response IN Plasmodium and Intestinal Helminths Co-infection in Ibadan; South-western Nigeria.

- P.12 **Rebecca Ayako**, Concomitant infection with *Leishmania donovani* and *Plasmodium berghei* causes proinflammatory polarization resulting in malaria exacerbation in BALB/c mice
- P.13 **Gholamreza Azizi**, The mutation in LRBA gene and evidence for polyautoimmunity
- P.14 **Ichrak Bannour**, Correlation between FAS single nucleotide polymorphisms and breast carcinoma susceptibility in Tunisia
- P.15 **Hamza Benthani**, Siglec, a novel potential therapeutic target to overcome immune escape in breast cancer.
- P.17 **Fahime Cheraghpour**, Effect of conditioned medium of mesenchymal stem cells treated with metformin and curcumin on breast cancer cell 4T1
- P.18 **Elizabeth Chimbayo**, Human immunodeficiency virus infection alters the frequency of Mycobacterium tuberculosis-specific CD4 helper T cell subsets in the Lung
- P.19 **Callixte Cyuzuzo**, Characterization and comparison of humoral immune responses in BALB/c mice immunized with crude PbS and PbRTSG antigens of *Plasmodium berghei* ANKA
- P.20 **Yosef Tsegaye Dabi**, Alteration of endocrine hormone profiles in different spectrum of tuberculosis disease
- P.21 **Nanna Dalgaard**, Monoclonal antibody targeting a large number of PfEMP1 variants associated with cerebral childhood malaria
- P.22 **Imen Daoud**, Clinical relevance of ELISA positive and immunofluorescence negative anti-double-stranded DNA antibodies
- P.23 **Ibrahima Diallo**, SARS-CoV-2 large-scale population testing using LumiraDx SARS-CoV-2 Antigen Test
- P.24 **Diakourga Arthur Djibougou**, Latent tuberculosis infection screening among three high-risk groups in Bobo-Dioulasso city, Burkina Faso
- P.25 **Linda Djune Yemeli**, Phenotypic diversity of serologic responses to *Onchocerca volvulus* in Cameroon: deciphering the genetic diversity for delineation of transmission zones
- P.26 **Victory Edem**, Anthropometric, nutritional, and immune factors in Multidrug-resistant tuberculosis patients following sputum conversion at two months of treatment.
- P.27 **Maureen Efenovwe**, Cytokine profile/biomarkers in Human African Trypanosomiasis in Nigeria
- P.28 **Mourad Elghali**, Rheumatoid Factor: A Prognostic Marker for Covid-19?
- P.29 **Mourad Elghali**, Lupus nephritis profile in tunisian Systemic Lupus Erythematosus patients : a cohort of 195 kidney biopsies.
- P.30 **Aymen Ellouze**, Anti-nucleosomes antibodies: a possible interference in anti-dsDNA-NcX ELISA
- P.31 **Aymen Ellouze**, Positivity of anti RNP-Sm antibodies: frequency and clinico-immunological associations
- P.32 **Aymen Ellouze**, Clinical relevance of Combined positivity of anti-MPO and anti-PR3-ANCA
- P.36 **Folly Mawulolo Gaba**, Expression of lymphocyte activation surface antigens on peripheral blood lymphocyte populations in cervical cancer.
- P.37 **Folly Mawulolo Gaba**, Relationship Between Circulating Galectin-3 And Peripheral Blood Lymphocytes In Cervical Cancer.
- P.38 **Amina Ghouzliani**, High Expression Levels of Foxp3 and VISTA in Advanced Human Gliomas and Impact on Patient's Prognosis
- P.41 **Zohra Hadjimi**, Interleukin-37 is negatively correlated with soluble IL-6R (sIL-6R) levels during Behçet's disease.
- P.42 **Wasihun Hailemichael**, T-cell exhaustion and senescence in Visceral leishmaniasis-HIV co-infected patients at University of Gondar hospital, North West Ethiopia
- P.43 **Arwa Kamoun**, Allograft biopsies and anti-HLA monitoring after kidney transplantation: Experience of hedi Chaker Hospital of Sfax
- P.44 **Arwa Kamoun**, HLA-G 3'UTR 14-bp ins/del polymorphism in dialyzed patients and its linkage disequilibrium with HLA-A
- P.45 **Arwa Kamoun**, HLA-DQ Prediction accuracy analysis based on DR typing
- P.46 **Arwa Kamoun**, Association study between insertion/deletion polymorphism of the angiotensin converting enzyme gene and ankylosing spondylitis
- P.47 **Arwa Kamoun**, ACE (I/D) polymorphism in symptomatic covid-19 patients in South Tunisia
- P.48 **Arwa Kamoun**, HLA class I and ABO polymorphism in symptomatic forms of covid-19
- P.50 **Hana Khenien**, Role of TNF α and IL-1 β in breast cancer
- P.51 **Zayoud khouloud**, Assessment of immune cell subsets in regular and accelerated aging in Cockayne Syndrome
- P.53 **Abdou-Samad KONE**, Butyrophilin 3A1 is associated with clinical features, immune markers and favourable prognosis in TCGA Triple-Negative Breast Cancer patients
- P.54 **Eric Kyei-Baafour**, to Variant Surface Antigens and Recombinant Merozoite Proteins in Asymptomatic Children in Hohoe Municipality of Ghana
- P.60 **Comlan Jerome Gaston Montcho**, Seroprevalence of viral hepatitis B and markers of seroprotection in a population living in Senegal

- P.61 **Comlan Jerome Gaston Montcho**, Epidemiological, prospective study of hepatitis B surveillance in Dakar (Senegal) and Cotonou (Benin)
- P.62 **Comlan Jerome Gaston Montcho**, Serological markers of viral hepatitis B in two West African populations in Dakar (Senegal) and Cotonou (Benin)
- P.64 **Leonard Mvaya**, Duodenal tissue-resident CD8+ T cells exhibit low cytolytic molecule expression and spatially localise away from HIV-susceptible CD4+ T cells
- P.65 **Sheila Nabweyambo**, Circulating levels of angiogenic factors and their association with preeclampsia among pregnant women at Mulago national referral hospital in Uganda
- P.66 **Liza Koboyo Nadjir**, Assessment of the inflammatory environment in HRP111 antigen positive blood donors at the blood transfusion center (CNTS) in Lomé
- P.67 **Dorra Najjar**, Monocyte subsets and P65 in Multicentric Carpotarsal Osteolysis Syndrome show distinct phenotypic characteristics
- P.68 **Charles Ndovi**, Investigating the role of NETs in cerebral malaria disease
- P.69 **Augusta Nsonwu-Anyanwu**, Assessment of Interferon Gamma-Inducible Protein 10 and Interleukin-2 as Indices of Immunologic Recovery following Combination Antiretroviral Therapy Induced Viral Suppression
- P.70 **Watipenge Nyasulu**, Plasma Hemoglobin And Cytokines Levels In Cerebral Malaria
- P.71 **Tinasha Nyazika**, Human alveolar macrophages support intracellular survival of Streptococcus pneumoniae
- P.72 **James Nyirenda**, Development & validation of neutrophil morphological changes as a clinical classification marker for cerebral malaria
- P.73 **Ifeoluwa Oladapo**, Seroprevalence of Toxoplasma gondii in mental disorders in Ibadan, Nigeria
- P.75 **Abdulfatah Onifade**, Herbal remedy for HIV infection
- P.76 **Tonny Jimmy Owalla**, Mice pups breastfed by foster mothers whose breast milk contains Plasmodium falciparum recombinant SE36 antigen develop specific antibodies
- P.78 **Soumaya RAFII**, Molecular Docking and In Silico ADMET Study for the identification of new candidate antagonists of A2AR
- P.79 **Sheu Rahamon**, Serum levels of vitamin D and tumor necrosis factor-alpha in adults with metabolic syndrome
- P.82 **Azzeddine Tahiat**, Diagnostic and predictive contribution of autoantibodies screening in a large series of patients with primary immunodeficiencies.
- P.83 **Anneth-Mwasi Tumbo**, Role of human Pegivirus infections in whole Plasmodium falciparum sporozoite vaccination and controlled human malaria infection in African volunteers
- P.84 **Chiaye Claire Antoinette Yapo-Crezoit**, Major Systemic Events After Second Immunization Dose of Astrazeneca Vaccine Against Covid-19: Case of Health Care Worker, Abidjan, Cote D'ivoire
- P.85 **Surajudeen Yaqub**, Serum levels of selected cytokines in farm workers exposed to Dichlorvos organophosphate pesticide

Tuberculosis & HIV and host immunity. Chair: Kondwani Jambo

- 3:00pm – 3:30pm **Plenary 9: JoAnne Flynn**, The path to sterilizing immunity against tuberculosis
- 3:30pm – 4:00pm **Plenary 10: David Russell**, Mycobacterium tuberculosis: Functional heterogeneity of host and pathogen in vivo
- 4:00pm – 4:30pm **Plenary 11: Mike Betts**, CD8+ T cell residency and recirculation in humans, relating to HIV, other viruses, and autoimmunity

(4:45pm – 6:15pm) Parallel Sessions

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|-----------------|--|---|
| 4:45pm – 6:15pm | Track 1 – Session 4: TB infection, Disease & Immunity. Chair: Fouad Seghrouchni | Track 2 – Session 4: Allergy, Autoimmunity & Autoinflammation. Chair: Asma GATI |
| 4:45pm – 5:15pm | Tues-T1.6 Patricia Darrah , Understanding Protection after IV BCG Immunization in NHP | Tues-T2.6 Ridha Barbouche : The STAT3 pathway: exploring the frontiers between infection and allergy |

Abstract session 7

- 5:15pm – 5:30pm **Tues-T1.7 David T Mzinza**: Infecting strain specificity influences human alveolar macrophage mediated ex vivo control of Mycobacterium tuberculosis infection
- 5:30pm – 5:45pm **Tues-T1.8 Paul Ogongo**: IL-17 responses in people with latent TB is biased towards M. tuberculosis antigens with variable T-cell epitopes
- 5:45pm – 6:00pm **Tues-T1.9 Leonard Fonkeng Sama**: Comorbidity of pulmonary tuberculosis and type 2 diabetes is associated with systemic increase of Th1, Th17 type cytokines

Abstract session 8

- Tues-T2.7 Sabelo Hadebe**: In allergic asthma, B cell IgM isotype regulates airway smooth muscle contraction at a single cell level
- Tues-T2.8 Manel Amri**: Interleukin 17 stimulates mononuclear cells to kill Echinococcus granulosus by NO-dependent mechanism: immunomodulation by laminated layer
- Tues-T2.9 Sylvia Riedel**: The intestinal immune system and the development of metabolic disease

Wednesday 4th August

Innate and Adaptive immune systems. Chair: Abdallah Badou

- 10:00am – 10:30am **Plenary 12: Eric Vivier**, Harnessing Innate Immunity
- 10:30am – 11:00am **Plenary 13: Andreas Radbruch**, Immunity and immunological memory
- 11:00am – 11:30am **Plenary 14: Michal Schwartz**, Harnessing bone-marrow derived macrophages to combat Alzheimer's disease by modestly unleashing the systemic immune system by immune checkpoint blockade approach

(11:40am – 1:00pm) Parallel Sessions

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|-------------------|---|--|
| 11:30am – 1:15pm | Track 1 – Session 5: Translational & Host Immunity.
Chair: Janelisa Musaya | Track 2 – Session 5: HIV/TB/Malaria Immunopathogenesis. Chair: Jayne Sutherland |
| 11:30am – 12:00pm | Wed-T1.1 Reto Guler , Targeting non-coding RNAs as host-directed drug therapy for tuberculosis | Wed-T2.1 Kondwani Jambo , The impact of HIV infection on the human airway |

Abstract session 9

- 12:00pm – 12:15pm **Wed-T1.2 Arezki Samer**: Probiotic mixture culture supernatant ameliorates intestinal inflammation in a model of NSAIDs induced enteropathy.
- 12:15pm – 12:30pm **Wed-T1.3 Mbow M**: PD-1 + T expression on T cell on area of high burden of human schistosomiasis.
- 12:30pm – 12:45pm **Wed-T1.4 Moustapha Babo**: Immune status to rubella and toxoplasmosis of pregnant women in Dakar, Senegal.
- 12:45pm – 1:00pm **Wed-T1.5 Aaron P Chirambo**: Immune cell cluster dynamics in the lungs of mice during Influenza A virus infection

Abstract session 10

- Wed-T2.2 David Mhango**: HIV alters the landscape of alveolar macrophages in the human lung
- Wed-T2.3 Pia Steigler**: T cell Responses to Mycobacterium indicus pranii Immunotherapy and adjunctive Glucocorticoid Therapy in Tuberculous Pericarditis
- Wed-T2.4 Thokozile Ngulube**: A novel sub-population of neutrophils associated with cerebral malaria in children: prospective case-control study
- Wed-T2.5 Anneth-Mwasi Tumbo**: HIV-1 positive and negative Tanzanian adults immunized with PfSPZ vaccine mount antibodies to circumsporozoite protein and merozoite surface protein 5

1:15pm – 3:00pm FAIS General Assembly and elections

Society of Leukocyte Biology sponsored session on Modulating host Immunity.

Chairs: Luis Montaner and Dominico Mavilio

- 3:00pm – 3:30pm **Plenary 15: Alex Shalek**, Identifying And Rationally Modulating Cellular Drivers Of Enhanced and Diminished Immunity
- 3:30pm – 4:00pm **Plenary 16: Ann Ager**, Overcoming T-cell homing challenges in cellular therapies for solid cancers
- 4:00pm – 4:30pm **Plenary 17: Lars Hviid**, Antibody-mediated immunity to malaria – both ends matter!
- 4:30pm – 5:00pm **Plenary 18: Ann Richmond**, Modulating Host Immunity in Breast Cancer: Our Search for New Therapeutic Strategies
- 5:00pm – 5:30pm **Plenary 19: Marina Caskey**, Broadly Neutralizing Antibodies for HIV Prevention, Therapy and Cure
- 5:30pm – 6:00pm **Round Table Discussion**

Thursday 5th August

Fungal and Helminth Immunology vignettes. Chairs: Jude Uzonna and Nada Abdel Aziz

- 10:00am – 10:20am **Plenary 20: Elia Tait Wojno**, Prostaglandin regulation of type 2 inflammation
- 10:20am – 10:40am **Plenary 21: Bill Horsnell**, Helminth regulation of immune pathology to STI's
- 10:40am – 11:00am **Plenary 22: Claire Hoving**, Host Recognition and Clearance of Pneumocystis
- 11:00am – 11:20am **Plenary 23: Maria Yazdanbakhsh**, Helminth infections and immune modulation: lessons from the field and from controlled human infection studies
- BREAK

11:30am – 1:00pm Round Table Discussion

- 1:15pm – 3:00pm **Guest speaker: Tomabu Adjobimey**, Impact of immune responses against parasites on the physiopathology of COVID-19

Closing Plenaries. Chair: Clive Gray

- 3:00pm – 3:30pm **Plenary 24: Yasmine Belkaid**, Control of immunity and inflammation by the microbiota
- 3:30pm – 4:00pm **Plenary 25: Bruce Walker**, HIV and COVID-19: Learning from Patients
- 4:00pm – 4:30pm **Plenary 26: Akiko Iwasaki**, Immune responses to SARS-CoV-2

- 4:30pm – 4:45pm **Closing Address: Pa Tamba Ngom**