

**SAIS CONFERENCE: Immunology of Diseases
PROGRAMME**

Monday 3rd February 2014

8:00	Registration open	
8:30 – 8:45	Opening: Welcome from SAIS	Frank Brombacher, ICGB
8:45 – 9:00	IUIS Welcome	Reinhold Schmidt, Germany
9:00 – 10:40	Session 1: TB Mechanistic	Chair: Muazzam Jacobs
9:00 – 9:25	Targeting pyrimidine metabolism for TB drug discovery	Valerie Mizrahi, UCT
9:25 – 9:50	Determinants of mycobacterium tuberculosis control in macrophages	Alex Sigal, K-RITH
9:50 – 10:15	BATF2 is essential for classical activated M1 macrophages and LPS-dependent host gene regulation in M. Tuberculosis infection	Reto Guler, UCT
10:15 – 10:40	Immunology, pathogenesis and immunotherapy for drug-resistant TB: Hype or Hope?	Keertan Dheda, UCT
10:40 – 11:20	Coffee break	
11:20 – 13:00	Session 2: TB Human Immunology & Vaccination	Chair: Thomas Scriba
11:20 – 11:45	Novel Approach to the Epidemiology of TB Transmission	Robin Wood, UCT
11:45 – 12:10	Pathogenesis of the HIV-TB associated immune reconstitution inflammatory syndrome TB	Rob Wilkinson, UCT
12:10 – 12:35	IRIS: The rocky road to immune recovery	Graeme Meintjes, UCT
12:35 – 13:00	New thinking in TB vaccine clinical development	Willem Hanekom, Bill & Melinda Gates Foundation (BMGF)
13:00 – 14:00	Lunch	

Workshops (parallel)

Workshop 1

14:00 – 16:30	Workshop I Basic Immunology	Abul Abbas, USA
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Workshop 2

14:30 – 15:30	Workshop II Bill Gates Foundation: How to get grants	Willem Hanekom
15:30 – 16:30	Workshop III Newest & Emerging technology	
15:30 – 16:00	Cell Sorting and New Technologies	Dr Daniel Bitoun, BD Biosciences EMA manager
16:00 – 16:30	Genomics and Proteomics for Immunologists	Reinhard Hiller, CPGR

Special Lecture

17:00 – 17:30	Regulatory T cells: Basic biology and clinical relevance	Abul Abbas, USA
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17:30 – 18:00	Coffee break/Snacks & Poster Session I	
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'Young researcher' Lectures (parallel)

Breakaway room 1

18:00 – 20:00	Sessions 3: Innate & adaptive Immunity	Chair: Jeffrey Dorfman
18:00 – 18:20	Characterisation of mycobacteria-specific memory CD4 T Cell subsets using multiplex QRT-PCR	Munyaradzi Musvosvi
18:20 – 18:40	Inducible deletion of CD28 prior to secondary Nippostrongylus brasiliensis infection impairs worm expulsion and recall of protective memory CD4+ T cell responses	Hlumanii Ndlovu
18:40 – 19:00	Deletion of IL-4 receptor alpha (IL-4R α) on dendritic cells renders balb/c mice hypersusceptible to leishmania major infection	Ramona Hurdalay
19:00 – 19:20	Synergetic ablation of TNF in Myeloid and Lymphoid T cell subsets is a signature of CNS M. tuberculosis Infection	Ngjambudulu Francisco
19:20 – 19:40	Regulation Of Learning And Memory By Meningeal Immunity: A Role For IL-13	Tiroyaone Brombacher
19:40 – 20:00	Shielding of the HIV-1 envelope membrane proximal external region from antibody	Jeffrey Dorfman

Breakaway room 2

18:00 – 19:40	Session 4: Coinfection & Host/Pathogen interaction	Chair: Bill Horsnell
18:00 – 18:20	HIV and the M. Tuberculosis granuloma	Collin Diedrich
18:20 – 18:40	HIV induces an quantitative defect in the M.TB-specific CD4+ T Cell response in blood and bronchoalveolar lavage	Rubina Bunjin
18:40 – 19:00	Malaria destroys BCG induced central memory responses	Roanne Keeton
19:00 – 19:20	High-content microscopy-based screen uncovers host mirnas which suppress HIV-1 infection via specific functional pathways	Jerolen Naidoo
19:20 – 19:40	Avoiding apoptosis: the role of long and short noncoding RNAs in HIV infection	Sam Barichievy

Poster session with wine and snacks

19:40 – 22:00	Poster Session II
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Tuesday 4th February 2014

9:00 – 10:40	Session 5: Mucosal Immunology	Chair: Allan Mowat
9:00 – 9:25	Heterogeneity of intestinal macrophages and dendritic cells	Allan Mowat, UK
9:25 – 9:50	Pulmonary immunity to helminth infection	Bill Horsnell, UCT
9:50 – 10:15	The role of IL-4 and IL-13 in the pathogenesis of allergic asthma - lessons from cell type specific IL-4ra deficient mice	Frank Kirstein, UCT
10:15 – 10:40	Unmet needs in asthma: Phenotyping, biologicals and immunotherapy	Eric Bateman, UCT
10:40 – 11:20	Coffee break	
11:20 – 13:00	Session 6: Bioinformatics & Systemsbiology of the immune system	Chair: Reto Guler
11:20 – 11:45	The role of long non-coding RNA	Musa Mhlanga, CSIR
11:45 – 12:10	Chromosomal contact permits transcription between coregulated genes	Youtaro Shibayama, CSIR
12:10 – 12:35	Fantom 5	Harukazu Suzuki, Japan

12:35 – 13:00	Prediction and validation of miRNAs in <i>Anopheles funestus</i> : developmental or immune regulators	Alan Christoffels, UWC
13:00– 14:00	Lunch	

Workshops (parallel)

Workshop 1

14:00 – 16:30	Workshop IV Advanced Immunology	Abul Abbas, USA
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Workshop 2

14:30 – 16:30	Workshop V IUIS: HIV immunopathogenesis: Is a cure possible?	Chair: Clive Gray, UCT
14:30 – 14:55		Reinhold Schmidt, Germany
14:55 – 15:20		Marcus Altfeld, Germany
15:20 – 15:45		Gero Hütter, Germany
15:45 – 16:30		Round table discussion

16:30 – 17:00	SAIS Council meeting	SAIS Committee
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Special Lecture

17:00 – 17:30	The End of AIDS: Prospects and Challenges	Salim Karim
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17:30 – 18:00	Coffee break/Snacks & Poster Session III	
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'Young researcher' Lectures (parallel)

Breakaway room 1

18:00 – 20:00	Session 7: Inflammation & Clinical Immunology	Chair Elizabeth Mayne
18:00 – 18:20	Best Practice for solid organ transplantation in the South African setting	Elizabeth Mayne
18:20 – 18:40	Monitoring donor-specific anti-HLA antibodies prior to transplantation: best practice and challenges in the South African setting	Catherine Worsley
18:40 – 19:00	The effect of inflammatory cytokines on steroidogenesis and reproduction in males with metabolic syndrome	Kristian Leisegang
19:00 – 19:20	Progression from <i>M. Tuberculosis</i> infection to TB disease is marked by an increased interferon response and perturbation of blood leukocyte subsets	Adam Penn-Nicholson
19:20 – 19:40	Whole blood inhibition of <i>M. Tuberculosis</i> growth in pre-adolescent children and young adults	Richard Baguma
19:40 – 20:00	Differential TLR1/2 pro-inflammatory signaling during the first 9 months of life	Elisa Nemes

Breakaway room 2

18:00 – 20:00	Session 8: HIV/TB markers, drugs & vaccination	Chair Keertan Dheda
18:00 – 18:20	Vitamin D and phenylbutyrate: dual immunotherapy for TB	Anna Coussens
18:20 – 18:40	Impact of <i>M.tb</i> pre-clearance with Isoniazid (INH) on Innate and Adaptive T-cell Responses to BCG Revaccination in Latently Infected Adults	Sara Suliman

18:40 – 19:00	Novel Non-Neuroleptic Phenothiazines Inhibit <i>Mycobacterium Tuberculosis</i>	Sumayah Salie
19:00 – 19:20	Statin Therapy Reduces the Mycobacterium tuberculosis Burden in Human Macrophages and in Mice by Enhancing Autophagy and Phagosome Maturation	Suraj Parihar
19:20 – 19:40	Innate Lymphoid Cells correlate with viral load setpoint in HIV infection	Henrik Kløverpris
19:40 – 20:00	Finding NEMO: Using super resolution microscopy to diagnose disease	Janine Scholefield

20:15 – 23:00	Gala Dinner, Moyo restaurant, Kirstenbosch
	<i>(Bus leaves Vineyard Hotel at 20:05)</i>

Wednesday 5th February 2014

9:00 – 10:40	Session 9: Open	Chair: B. Becher
9:00 – 9:25	How T cells talk to phagocytes in autoimmunity	B. Becher, Switzerland
9:25 – 9:50	T helper 1/Th2 and Leishmania: paradox rather than paradigm	James Alexander, UK
9:50 – 10:15	Innate allergic inflammatory lung response to papain is IL-33 dependent	Berhard Ryffel, France
10:15 – 10:40	Inflammation and thrombosis after Salmonella infection	Adam Cunningham, UK
10:40 – 11:20	Coffee break	
11:20 – 13:00	Session 10: HIV Immunology	Chair: Jo-Ann Passmore
11:20 – 11:45	Cytokine biomarkers in the female genital tract to identify women most at risk for HIV infection	Jo-Ann Passmore, UCT
11:45 – 12:10	Heterogeneity in HIV risk and implications for HIV prevention	Lyle Mckinnon, UKZN
12:10 – 12:35	Evolution of HIV neutralizing antibodies: clues for an HIV vaccine	Lynn Morris, NHLS
12:35 – 13:00	HIV adaptation to immune pressure and the quest for a vaccine	Thumbi Ndung'u, K-RITH
13:00 – 13:10	Final words & process	Frank Brombacher, ICGEB
13:10	Departure	