

DETAILED PROGRAMME

Sunday 17th January

14:00 – 17:30	Registration
17:30 – 19:00	Welcoming mixer
18:00 -	Council meeting

Monday 18th January (Genomics and Bioinformatics)

07:30 – 08:00	Registration desk opens	
08:00 – 08:30	Welcoming and opening of conference	
08:30 – 09:20	Plenary 1 (Genomics): Stephan Shuster Chances and Challenges of next-generation sequencing in Metagenomics.	
09:20 – 09:50	L1: <u>Fiona van den Berg</u> , Patrick Arbuthnot, Marc Weinberg. Effective Target Knockdown And Processing Can Be Achieved By Primary- MicroRNAs Spanning A Variety Of Predicted Stem Lengths.	
09:50 – 10:20	L2: <u>Andre Stander</u> , Fourie Joubert, Annie Joubert. <i>In silico</i> design, synthesis and <i>in vitro</i> evaluation of novel antimetabolic molecules.	
10:20 – 10:50	Tea	
	Parallel sessions	
10:50 – 11:10	SL1: <u>Mary-jessica Laguette</u> , Sharon Prince and Malcolm Collins. Sequence Variants within the 3'-UTR region of the <i>COL5A1</i> gene alters mRNA stability in patients suffering from Achilles Tendinopathy.	SL6: <u>Choveaux, D.L.</u> and Goldring, J.P.D. Expression, purification and copper-binding characteristics of the amino terminus of a <i>plasmodium yoelii</i> copper transport protein.
11:10 – 11:30	SL2: <u>Karl-Heinz Storbeck</u> , Amanda C. Swart, Margaretha A. Snyman and Pieter Swart. CYP17 causes hypocortisolism in the South African Angora goat.	SL7: <u>PA Bester</u> , D Litthauer, LA Piater, E van Heerden. Functional and structural analysis of a ferric reductase.
11:30 – 11:50	SL3: <u>Huajian Teng</u> , <u>James Smith</u> , Sharon Prince. Regulation of TBX2 expression by TGF β 1 involves cross-talk between Smad3/4 and JunB.	SL8: <u>David Balchin</u> , Samantha Gildenhuis and Heini W. Dirr. The role of a topologically conserved inter-domain interaction in the function of class α glutathione

		transferase.
11:50 – 12:10	<p>SL4: <u>Amaal Abrahams</u>, Henriette Uwimpuhwe , Robea Ballo, Sharon Prince, Jeannine M Heckmann .</p> <p>Identifying the molecular basis for extraocular muscle pareses in myasthenia gravis patients with a functional snp in the decay accelerating factor.</p>	<p>SL9: <u>Ikechuwku Achilonu et al.</u></p> <p>Crystallisation, X-ray diffraction and preliminary structural studies of recombinant human W20A-GSTα and M32A-CLIC-1.</p>
12:10 – 12:30	<p>SL5: <u>James R. Short</u> and Rosemary A. Dorrington.</p> <p>Analysis of membrane targeting domains of a positive sense single stranded RNA virus replicase in HeLa cells.</p>	<p>SL10: <u>Tristan Scott</u>, Patrick Arbuthnot, Janusz Paweska, Marco Weinberg.</p> <p>RNA interference targeted to the S segment of Rift Valley fever virus inhibits viral replication and alleviates pathogenic effects <i>in vitro</i>.</p>
12:30 – 13:45	Lunch	
13:45 – 14:35	Plenary 2 (Bioinformatics): David Landsman	
	Landmarks in genome biology and chromatin structure.	
14:35 – 17:00	Poster session 1: Poster presentations and posters P1 to P70.	
	Tea available during poster session.	
18:00 – late	Braai and games	

Tuesday 19th January (Proteomics and Structural Biology)

08:15 – 08:30	Announcements	
08:30 – 09:20	Plenary 3 (Proteomics): Ole Jensen	
	Interpreting the protein language: Proteomic analysis of post-translational modifications.	
09:20 – 09:50	L3: Debra Rossouw and <u>Florian F. Bauer</u>	
	Comparative omics of wine yeast strains: assessment and prediction of the impact of genetic and environmental perturbations on complex phenotypes.	
09:50 – 10:20	L4: Hazel Corradi, Anne Corrigan, Ester Boix, Gopi Mohan, Ed Sturrock, K Ravi Achary, <u>Peter Meissner</u> .	
	Crystal structure of protoporphyrinogen oxidase from myxococcus xanthus, it's complex with the inhibitor acifluorfen, and a molecular rationalisation with certain variegate porphyria-associated mutations.	
10:20 – 10:50	Tea	
	Parallel sessions	

10:50 – 11:10	<p>SL11: <u>Sheena Saayman</u>, Patrick Arbuthnot^a and Marco Weinberg.</p> <p>Deriving four predictive functional anti-HIV siRNAs from a single expressed Pol III-generated long hairpin RNA.</p>	<p>SL16: <u>Sabina Wansleben</u>, Emily Davis and Sharon Prince.</p> <p>The T-Box Transcription factor TBX2, is a powerful pro-proliferative factor in melanoma.</p>
11:10 – 11:30	<p>SL12: <u>Lehlohonolo Mathengtheng</u>, Felicity Burt.</p> <p>The preparation of a recombinant Langat virus envelope protein for the detection of antibodies against tick-borne flaviviruses.</p>	<p>SL17: <u>Luke Esau</u>, Denver Hendricks.</p> <p>Proliferative and Survival Pathways in Oesophageal Cancer.</p>
11:30 – 11:50	<p>SL13: <u>Stephanie Fanucchi</u> and Robin B. Veale.</p> <p>Is focal adhesion kinase at the crossroads of apoptotic regulation in oesophageal carcinoma?</p>	<p>SL18: <u>Nina Holderness</u>, Virna Leaner.</p> <p>p21-activated kinase 3 (pak3) as a potential ap-1 target gene involved in oncogenesis.</p>
12:50 – 12:10	<p>SL14: <u>Phillia R. Vukea</u>, Alain F. Boulangé and Theresa H.T. Coetzer.</p> <p>Recombinant expression of the embedded and mature form of infectious bursal disease virus (IBDV) VP4 protease.</p>	<p>SL19: Jade Peres, Shaheen Mowla and Sharon Prince .</p> <p>The Transcription factor, TBX3 is required for melanoma formation and invasion.</p>
12:10 – 12:30	<p>SL15: <u>N. C. Shaw</u> and R. B. Veale.</p> <p>PI3K signalling in Human Oesophageal Squamous Carcinoma: does it direct the nuclear localization of β-catenin?</p>	<p>SL20: <u>Belinda C. Bezuidenhout</u> and Theresa L. Coetzer.</p> <p>The μ1 subunit of adaptor protein complex 1 in <i>Plasmodium falciparum</i>.</p>
12:30 – 13:30	Lunch	
13:30 – 14:20	<p>Plenary 4 (Biochemistry and Molecular Biology): Jerry Workman</p> <p>Protein Complexes that Modify Chromatin for Transcription.</p>	
14:20 – 15:00	Beckman Coulter Silver Award Lecture	
15:00 – 15:30	Tea	
15:30 – 16:00	Anita Wan	Anna Capovilla

	New Tools and Techniques for Sample Preparation.	Innovations in High Throughput Sequencing.
16:00- 16:30	Anita Wan Biological Use of Inhibitors and Their Relevance to Biological and Clinical Sciences.	Volker Kruff Simultaneous quantitation and structural confirmation of protein biomarkers during verification/validation using hybrid triple quadrupole/linear ion trap mass spectrometry.
16:30 – 18:00	SASBMB AGM	
19:00 -	Congress Dinner	

Wednesday 20th January (Biochemistry, Molecular Biology and Metabolism)

08:15 – 08:30	Announcements	
08:30 – 09:20	Plenary 5 (Structural Biology): Jennifer Littlechild The Application of Thermophilic Enzymes in Biocatalysis	
09:20 – 09:50	L5: <u>Jean M. Watermeyer</u> , Alistair Gray, Leandri van der Vywer, Margot Scheffer, Jeremy D. Woodward and B. Trevor Sewell. Helix formation in the microbial nitrilases	
09:50 – 10:20	L6: Külzer S, Gehde N, Hinrichs C and <u>Przyborski J.M.</u> Live on an intracellular island: The peculiar case of <i>P. falciparum</i> , a parasitic freebooter par excellence.	
10:20 – 10:50	Tea	
	Parallel sessions	
10:50 – 11:10	SL21: <u>Eva-Rachele Pesce</u> , Gregory Lloyd Blatch. Hsp40-Hsp70 partnerships of the malaria parasite <i>Plasmodium falciparum</i>	SL26: <u>Abhita Jugdave</u> , Derek Litthauer, Jacobus Albertyn, Esta van Heerden. Microbial Biodiversity and the Biomes Abilities
11:10 – 11:30	SL22: <u>Earl Prinsloo</u> , Gregory L Blatch. Chaperoned STAT3: Interaction of STAT3 with Hsp90	SL27: <u>Robert Jordan</u> , Elsabe Botes, Mary DeFlaun, Jim Howel, Robert Borch and Esta van Heerden. Hexavalent chromium reduction in fixed-film up-flow bioreactors

11:30 – 11:50	<p>SL23: <u>Vusi G. Mbazima</u> and Leseilane J. Mampuru.</p> <p>Bax translocation plays a key role in the apoptosis of Jurkat T cells induced by the crude methanolic extracts of <i>Commelina benghalensis</i></p>	<p>SL28: <u>Johann M. Rohwer</u>, Lafras Uys, Oliver Ebenhöf, Moritz Schütte, Eric Kramer, Mark Stitt, Jannie Hofmeyr.</p> <p>Making Sense of Omics Data: Computational Tools for Systems Biology</p>
11:50 – 12:10	<p>SL24: <u>Michael H. Ludewig</u> and Gregory L. Blatch.</p> <p>The characterization of the amino acids of Trypanosomal Hsp40s important for a functional interaction with their partner Hsp70.</p>	<p>SL29: <u>Marilize Le Roes-Hill</u>, Nuraan Khan, Bronwyn Kirby, Jeffrey Rohland, Paul Meyers, Mike Davies-Coleman, Don Cowan, Stephanie Burton.</p> <p>Oxidative enzymes in Actinobacteria</p>
12:10 – 12:30	<p>SL25: <u>Rudo Samudzi</u>, Felicity Burt.</p> <p>Preparation of recombinant antigens for demonstrating antibody responses in patients with Crimean-Congo haemorrhagic fever virus infections.</p>	SL30: To be determined
12:30 – 13:45	Lunch	
13:45 – 14:35	<p>Plenary 6 (Metabolism): Susan Abmayr</p> <p>Membrane Receptors and Signal Transduction in Drosophila Myoblast Fusion.</p>	
14:35 – 17:00	<p>Poster session 2: Poster presentations and posters P71 to P131.</p> <p>Tea available during poster session</p>	