

## 2nd International Symposium on Natural Products



23-25 September 2014  
Cape Town, South Africa

### Programme

#### Tuesday 23<sup>rd</sup> September

9:00-10:00	Registration	
10:00-10:30	Introductions and Welcome	
10:30-10:55 I01	<b>The phytochemistry, anti-bacterial and anti-parasitic assessment of some Kenyan medicinal plants</b> Professor Jacob Midiwo <i>University of Nairobi, Kenya</i>	<b>Chair:</b> Dr Helen Driver, Royal Society of Chemistry, UK
10:55-11:20 I02	<b>Searching for novel drug-like molecules from symbionts</b> Professor Ren-Xiang Tan <i>Nanjing University, China</i>	
11:20-11:45	Tea/Coffee	
11:45-12:10 I03	<b>Phytochemical leads from African medicinal plants</b> Professor Dulcie Mulholland <i>University of Surrey, UK</i>	<b>Chair:</b> Professor David Gammon, University of Cape Town, South Africa
12:10-12:35 I04	<b>Discovery of structurally diverse and biologically important components from Chinese medicinal plants</b> Professor Jian-Min Yue <i>Shanghai Institute of Materia Medica, Chinese Academy of Medical Sciences, China</i>	
12:35-13:00 I05	<b>Inhibition of efflux of drugs as a mode of action of antimicrobial and anticancer effects of plant natural products</b> Professor Stanley Mukanganyama <i>University of Zimbabwe, Zimbabwe</i>	
13:00-14:00	Lunch	
14:00-14:40	Flash presentations	
14:40-15:05 I06	<b>Study on bioactive compounds with novel structures and their biological significances from toxic plants in China</b> Professor Shi-Shan Yu <i>Institute of Materia Medica, Chinese Academy of Sciences, China</i>	<b>Chair:</b> Prof. Ren-Xiang Tan, Nanjing University, China
15:05-15:30 I07	<b>GC-MS profiling and anti-protozoal investigations of Congolese Erythrina plants, <i>E. abyssinica</i> and <i>E. droogmansiana</i></b> Dr Shetonde Mihigo <i>University of Kinshasa, Democratic Republic of the Congo</i>	
15:30-15:55 Note: added speaker	<b>Guest Talk</b> Dr Carlman Moyo <i>DuPont</i>	
15:55-16:25	Tea/Coffee	
16:25-16:50	<b>Recent progress towards the total synthesis of bioactive natural products</b>	<b>Chair:</b> Professor Ian Castro-Gamboa,

I17	Professor Luiz Dias <i>UNICAMP, Brazil</i>	São Paulo State University, Brazil
16:50-17:15 I10	<b>Negative regulation of cAMP-PKA signaling pathway on JAK-STAT signaling pathway</b> Professor Guo-Lin Zhang <i>Chengdu Institute of Biology, Chinese Academy of Sciences, China</i>	
17:15-18:30	Poster Session	
18:30-19:00	Reception	

### Wednesday 24<sup>th</sup> September

9:00-10:00	Arrival	
10:00-10:25 I20	<b>Phragmalin limonoids from <i>Neobeguea mahafalensis</i>: isolation, biological activities, semisynthesis</b> Professor Philippe Rasoanaivo <i>University of Antananarivo, Madagascar</i>	<b>Chair:</b> Professor Ngist Asfaw, University of Addis Ababa, Ethiopia
10:25-10:50 I12	<b>Antifungal activity of chemical constituents from Chinese bryophytes and lichens</b> Professor Hong-Xiang Lou <i>Shandong University, China</i>	
10:50-11:15 I13	<b>Semiochemistry - the chemical language of ecology and its applications in human health and agriculture</b> Professor Tony Hooper <i>Rothampsted Research, UK</i>	
11:15-11:45	Tea/Coffee	
11:45-12:10 I14	<b>Highly efficient nitrogenation, aerobic oxygenation reactions and the modification of bioactive compounds</b> Professor Ning Jiao <i>Peking University, China</i>	<b>Chair:</b> Professor Guo-Lin Zhang Chengdu Institute of Biology, Chinese Academy of Sciences, China
12:10-12:35 I15	<b>Exploiting natural plant stimuli for sustainable pest management in Africa</b> Professor Charles Midega <i>ICIPE, Kenya</i>	
12:35-13:00 I16	<b>New strategy to diversify natural and druggable molecules</b> Professor Zhang-Jie Shi <i>Peking University, China</i>	
13:00-14:00	Lunch	
14:00-15:00	Flash presentations	
15:00-15:25 I09	<b>The fascinating world from <i>Senna spectabilis</i> rhizosphere: exploring molecular diversity using NMR dereplication techniques</b> Professor Ian Castro-Gamboa <i>São Paulo State University, Brazil</i>	<b>Chair:</b> Professor Rebecca Goss, University of St. Andrews, UK

15:25-15:50 I18	<b>Surveying the plant natural products in the South African Succulent Karoo biome: advantages and disadvantages of metabolomics and systems biology approaches</b> Professor David Gammon <i>University of Cape Town, South Africa</i>	
15:50-16:30	Tea/Coffee	
16:30-16:55 I19	<b>Research progress of diterpenoids from Isodon species</b> Professor Jian-Xin Pu <i>Kunming Institute of Botany, Chinese Academy of Sciences, China</i>	<b>Chair:</b> Professor Dulcie Mulholland, University of Surrey, UK
16:55-17:20 I11	<b>Anthocyanins with new anthocyanidin A-ring substitution patterns</b> Dr Robert Byamukama <i>Makerere University, Uganda</i>	
17:20-17:30	Closing remarks	
18:30-20:30	Conference Dinner	

### Thursday 25<sup>th</sup> September

9:00-9:30	Arrival	
09:30-09:55 I21	<b>Elucidating and exploiting biosynthesis</b> Professor Rebecca Goss <i>University of St Andrews, UK</i>	<b>Chair:</b> Professor Hong-Xiang Lou Shangdong University, China
09:55-10:20 I22	<b>Bioprospecting in Micro-Algal Consortia: Mega-scale Meta-metabolomics</b> Dr Guy Carter <i>Biosortia Pharmaceuticals, USA</i>	
10:20-10:50	Tea/Coffee	
10:50-11:15 I23	<b>Terpenoid constituents of Salvia and their bioactivities</b> Professor Gang Xu <i>Kunming Institute of Botany, Chinese Academy of Sciences, China</i>	<b>Chair:</b> Professor Jacob Midiwo, University of Nairobi, Kenya
11:15-11:40 I24	<b>Chemical composition and antibacterial activities of the essential oil of Lippia javanica leaves from Ethiopia</b> Professor Ngist Asfaw <i>University of Addis Ababa, Ethiopia</i>	
11:40-12:00	Closing remarks Poster prize presentations	
12:00-13:00	Lunch	
13:00-14:30	Roundtable Discussion (invitation only)	<b>Facilitated by:</b> Dr Helen Driver, Royal Society of Chemistry, UK
14:30-15:00	Tea/ Coffee	
15:00-16:00	Roundtable Discussion continued	