



Monday, July 27

8:15 – 9:00 hours Registration

9:00 – 9:45 hours Inauguration and Welcome addresses
Addresses by President SFRR-Africa/President IAMBR
Address by *Chief Guest*

9:45 – 10:00 hours Tea break

10:00 – 13:30 hours Session 1 - Plenary Session: Oxidative Stress and Health

Chair – Prof Okezie I Aruoma (USA) & Prof Jean Marc Nabholz (France)

10:05 – 10:45 hours **Key Note address: The concept of oxidative stress in biology and Medicine - Helmut Sies, Germany**

10:45 – 11:10 hours Local and systemic oxidative stress control inflammation in bullous pemphigoid, a skin auto-immune disease - *Frank Antonicelli, France*

11:10 – 11:35 hours Oxidative Stress in type 2 diabetes – Focus on the Role of AGEs - *Emmanuel Bourdon, Réunion, France*

11:35 – 12:00 hours Antioxidant and anti-inflammatory benefits of plant polyphenols on adipose cells exposed to oxidative stress during obesity - *Marie-Paule Gonthier, Réunion, France*

12:00 – 12:25 hours miRNA in resolution of inflammation: Small players with big role - *Sashwati Roy, USA*

12:25 – 12:50 hours Redefining traditional profiles in chemical pathology: Incorporating the antioxidant hypothesis *John Anetor, Nigeria*

12:50 – 13:05 hours Questions, discussion and conclusion

13:05 – 13:50 hours *Lunch*

13:50 – 18:05 hours Session 2 - Plenary Session: Natural products and Traditional medicine

Chair – Prof Helmut Sies (Germany) & Prof Theeshan Bahorun (Mauritius)

13:50 – 14:15 hours Safety and Efficacy of a Novel, Patented *Trigonella foenum-gracium* seed extract (Furocyst) in Polycystic Ovary Syndrome in female subjects - *Debasis Bagchi, USA*

14:15 – 14:40 hours Rooibos: the human perspective - *Jeanine Marnewick, South Africa*

14:40 – 15:05 hours Bioefficacy of non-edible parts of *Punica granatum*: From antioxidant, antibacterial to apoptotic inducing effects - *Vidushi S Neergheen-Bhujun, Mauritius*

15:05 – 15:30 hours New Targets for therapeutics in osteoarthritis: Marine compounds and Gla rich proteins - *Dina Simes, Portugal*

15:30 – 15:45 hours Tea break

15:45 – 16:10 hours African traditional medicinal plants and the management of chronic diseases - *Olatunde Farombi, Nigeria*



16:10 – 16:35 hours	DNA damage induced by oxidative stress in hepatic iron overload disease, esophageal and prostate cancers - <i>Kensesse Mossanda, South Africa</i>
16:35 – 17:00 hours	Efficacy of a Novel Pygeum Extract (CR002) on testosterone-induced Benign Prostatic Hyperplasia (BPH) in male Wistar rats - <i>Manashi Bagchi, USA</i>
17:00 – 17:25 hours	Neem seed kernel synthesized silver nanoparticles against <i>Anopheles stephensi</i> and <i>Plasmodium falciparum</i> - <i>Kadarkarai Murugan, India</i>
17:25 – 17:50 hours	Questions, discussion and conclusion

Tuesday, July 28

8:30 – 10:15 hours **Special Session - Hosted by Bioculture Ltd: Non-Human Primate Contributions to Biomedicine: Past, Present and Future**

Chair: Dr Vidushi Neergheen Bhujun (Mauritius)

8:30 – 8:50 hours	A brief history of primate research: Global health improvements and ethical challenges - <i>Paul Honess, Mauritius</i>
8:50 – 9:10 hours	Free radical biology in the service of animal welfare - <i>Paul Honess, Mauritius</i>
9:10 – 9:35 hours	The biodiversity of Mauritius and impact resulting from anthropogenic activities including introduction of alien pest species such as the long-tailed macaque, <i>Macaca fascicularis</i> - <i>Vincent Florens, Mauritius</i>
9:35 – 10:00 hours	The high value of long-tailed macaques (<i>Macaca fascicularis</i>) of Mauritian origin in biomedical research - <i>Nada Padayatchy, Mauritius</i>
10:00 – 10:15 hours	Questions, discussion and conclusion
10:15 – 10:30 hours	Tea Break

10:30 – 13:30 hours **Session 3 - Plenary Session: Cancer - risk factors and management**

Chair - Prof Faadiel Essop (South Africa) & Prof Debasis Bagchi (USA)

10:30 – 11:10 hours	Key Note address: Cancer - The emerging global threat - Roy Jensen, USA
11:10 – 11:35 hours	Importance of translational research towards personalized biologic therapies in breast cancer: A glimpse towards the future - <i>Jean-Marc Nabholz, France</i>
11:35 – 12:00 hours	Targeting prolactin receptor: New anti-psychotic approach to suppress cancer stem cells - <i>Shrikant Anant, USA</i>
12:00 – 12:25 hours	Anti-inflammatory, Proresolving, and Cancer Chemopreventive Effects of Docosahexaenoic Acid - <i>Young-Joon Surh, South Korea</i>
12:25 – 12:50 hours	Reach to recovery- An outreach program for cancer patients by cancer survivor patients - <i>Savita Bundhoo, Mauritius</i>
12:50 – 13:15 hours	Biomarker testing for ER/PR/HER-2 receptor status in female breast cancer cases in the Republic of Mauritius- <i>Shyam Manraj, Mauritius</i>
13:15 – 13:30 hours	Questions, discussion and conclusion
13:30 – 14:15 hours	<i>Lunch</i>



Translational Science and Drug Discovery

July 27 – 29, 2015 | Hennessy Park Hotel, Mauritius

14:15 – 16:30 hours

(Hall 1)

Session 4: Parallel Session A - Molecular nutrition, Molecular Biology, Methodology approaches and Environmental Health

**Speakers of 35 years or under will be entitled to run for ABB Best Young Investigators Award (Sponsored by Archives of Biochemistry and Biophysics, Elsevier)*

Chair – Prof Karl Heinz Wagner (Austria) & Prof Jeanine Marnewick (South Africa)

14:15 – 14:30 hours

Mitochondrial and oxidative stress response in HepG2 cells following exposure to antiretroviral drugs for 24 and 120 hours - *Savania Nagiah, South Africa*

14:30 – 14:45 hours

microRNA-499 single nucleotide polymorphism in South African Indians with early-onset coronary artery disease - *Prithiksha Ramkaran, South Africa*

14:45 – 15:00 hours

Marine natural products research at UCT: Exploring the chemical diversity and biomedical potential of Southern African marine invertebrates - *Suthananda Sunassee, South Africa*

15:00 – 15:15 hours

Benzo(a)Pyrene triggers key players of early cellular and molecular events of colon carcinogenesis in mice – *Babajide Ajayi, Nigeria*

15:15 – 15:30 hours

Is nutrition education effective in promoting dietary quality & fruit and vegetable intake among Mauritian adults? - *Yashvee Dunneram, Mauritius*

15:30 – 15:45 hours

Synthesis of carbon nanotubes and its application – *Unmesha Ray, India*

15:45 – 16:00 hours

Validation of a manual oxygen radical absorbance capacity assay in accordance with ISO 17025 technical requirements – *Olivia Parbhunath, South Africa*

16:00 – 16:15 hours

Exposure to low doses of silver nanoparticle causes renal damage in adult zebrafish Daniorerio – *Emily Grace Okuthe, South Africa*

16:15 – 16:30 hours

Questions, discussion and conclusion

16:30 – 17:30 hours

Tea break, Poster Viewing and Evaluation

19h30- 22h30

Gala Dinner at Le Suffren

14:15 – 16:30 hours

(Hall 2)

Session 4: Parallel Session B - Molecular Nutrition, Molecular Biology, Methodology Approaches and Environmental Health

**Speakers of 35 years or under will be entitled to run for ABB Best Young Investigators Award (Sponsored by Archives of Biochemistry and Biophysics, Elsevier)*

Chair – Prof Olatunde Farombi (Nigeria) & Prof Kensesse Mossanda (South Africa)

14:15 – 14:30 hours

Kolaviron resolves influenza virus-induced pulmonary and splenic cytopathic /pathologic assault by restoring inflammation and redox perturbation – *Ifeoluna Awogbindin, Nigeria*

14:30 – 14:45 hours

A fuzzy mathematical framework to medical diagnosis - *Yannick Désiré Tangman, Mauritius*

14:45 – 15:00 hours

Bio-mining the medicinal treasures of the Mauritian sea: An unexplored reservoir of anti-bacterial, anti-oxidative and anti-proliferative agents from four shallow water Mauritian sponge species – *Rima Beesoo, Mauritius*

15:00 – 15:15 hours

Rooibos (*Aspalathus linearis*) offers protection against ischaemia/reperfusion injury in isolated perfused rat hearts – *Dirk Bester, South Africa*



Translational Science and Drug Discovery

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15:15 – 15:30 hours	The effects of <i>Tulbaghia violacea</i> Harv on blood glucose and antioxidant status in streptozotocin induced diabetic rats – <i>Kimane Joseph, South Africa</i>
15:30 – 15:45 hours	The antioxidant capacity and bioavailability of rooibos (<i>Aspalathus linearis</i>) flavonoids in human plasma following an acute dose of a fermented rooibos supplement – <i>Liana van der Westhuizen, South Africa</i>
15:45 – 16:00 hours	Phytochemical analysis and <i>in vitro</i> bioactivity of Aloe species endemic to South West Indian Ocean Islands – <i>Laura Lallemand, Réunion, France</i>
16:00 – 16:15 hours	Influence of glycation of albumin on its binding properties to Liraglutide and Detemir, two drugs classically used in the treatment of diabetes – <i>Joël Couprie, Réunion, France</i>
16:15 – 16:30 hours	Questions, discussion and conclusion
16:30 – 17:30 hours	Tea break, Poster Viewing and Evaluation
19:30 - 22:30 hours	Gala Dinner at Le Suffren

Wednesday, July 29

9:00 – 10:30 hours HALL 1	Session 5: Parallel Session A - Molecular Nutrition, Molecular Biology, Methodology Approaches and Environmental Health <i>*Speakers of 35 years or under will be entitled to run for ABB Best young Investigators award (Sponsored by Archives of Biochemistry and Biophysics, Elsevier)</i> Chair: Prof Young-Joon Surh (South Korea) & Prof Sashwati Roy (USA)
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9:00 – 9:15 hours	<i>Morinda citrifolia</i> fruit extracts modulates H ₂ O ₂ - induced oxidative stress in human liposarcoma SW872 cells – <i>Zaina Ruhomally, Mauritius</i>
9:15 – 9:30 hours	The effects of multivitamin-multimineral supplementation in the spontaneously hypertensive rat model - <i>Rosemarie Höfler, South Africa</i>
9:30 – 9:45 hours	Mushrooms in the fight against cancer: Biochemical and molecular evidence - <i>Srishti Ramsaha, Mauritius</i>
9:45 – 10:00 hours	An elicitation study of the condom use behaviour and intentions of migrants youth in south Africa - <i>Johannes John-Langba, South Africa</i>
10:00 – 10:15 hours	A fuzzified quantitative methodological approach for environmental health Assessment – <i>Chandradeo Bokhoree, Mauritius</i>
10:15 – 10:30 hours	Questions, discussion and conclusion
10:30 – 10:45 hours	Tea Break

9:00 – 10:30 hours HALL 2	Session 5: Parallel Session B - Molecular Nutrition, Molecular Biology, Methodology Approaches and Environmental Health <i>*Speakers of 35 years or under will be entitled to run for ABB Best Young Investigators Award (Sponsored by Archives of Biochemistry and Biophysics, Elsevier)</i> Chair: Prof John Anetor (Nigeria) & Prof Enmanuel Bourdon (Réunion, France)
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9:00 – 9:15 hours	Simple green synthesis of water soluble type II CdTe/CdSe nanoparticles and their use in cellular imaging – <i>Vuyelwa Ncapayi, South Africa</i>
9:15 – 9:30 hours	High-density lipoproteins: more than cholesterol transporters – <i>Olivier Meilhac, Réunion, France</i>



Translational Science and Drug Discovery

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9:30 – 9:45 hours	Kolaviron, a biflavonoid of <i>Garcinia kola</i> seed mitigates ischaemic/reperfusion injury by up-regulation of pro-survival and down-regulation of apoptotic signaling pathways – <i>Ademola Oyagbemi, Nigeria</i>
9:45 – 10:00 hours	Photo-physiological and biochemical basis of thermo-tolerance in four scleractinian corals exhibiting differential bleaching susceptibility from Okinawa, Japan – <i>Ranjeet Bhagooli, Mauritius</i>
10:00 – 10:15 hours	Seropositivity and associated differences in infecting strains and biomolecular risk markers suggest for a role for <i>Helicobacter pylori</i> in non-communicable diseases in Mauritius – <i>Susheela Biranjia-Hurdoyal, Mauritius</i>
10:15 – 10:30 hours	Questions, discussion and conclusion
10:30 – 10:45 hours	Tea Break
10:45 – 13:20 hours	Session 6 - Plenary Session: Nutrition, Wellness and drug development Chair – Prof Roy A Jensen (USA) & Prof Sandile Songca (South Africa)
10:45– 11:25 hours	Keynote Address: Nutrition, Genomics and Human Health: A Complex mechanism for Wellness - Okezie I Aruoma, USA
11:25 – 11:50 hours	Bilirubin metabolism in the development and prevention of chronic diseases: antioxidative effects and beyond - <i>Karl Heinz Wagner, Austria</i>
11:50 – 12: 15 hours	Treating the Cognitive and Social Dysfunction Effects of Type 2 Diabetes - <i>Joseph Indelicato, USA</i>
12:15 – 12:40 hours	Sugar and hearts and all things not so nice - <i>Faadiel Essop, South Africa</i>
12:40 – 13:05 hours	Screening and detection of mutations in exon1 and exon6 region of ext1 gene of a multiple hereditary exostoses affected proband - <i>Ajit Gangawane, India</i>
13:05-13:20 hours	Discussion and Break off for lunch
13:20-14:05 hours	<i>Lunch</i>
Plenary Session 6: (Continued)	Chair –Dr Ranjeet Bhagooli (Mauritius) & Prof Marie Paule Gonthier (Réunion, France)
14:05 – 14:30 hours	Nano-drug formulations and combinations with bioactive compounds/phytochemicals - <i>Archana Bhaw-Luximon, Mauritius</i>
14:30 – 14: 55 hours	Photodynamic Therapy, past present and future - <i>Sandile Songca, South Africa</i>
14:55 – 15: 20 hours	Membrane progesterin receptor (mPR) a possible target for new drugs- <i>Toshinobu Tokumoto, Japan</i>
15:20 – 15:45 hours	Green synthesis, characterization and application of semiconductor and silver nanostructures <i>Oluwatobi S. Oluwafemi, South Africa</i>
15:45 – 16:00hours	Questions, discussion and conclusion
16: 00– 16:45 hours	Closing: <i>Conference closure, announcement of winners for Young Investigators Award (Poster and Oral presentations)</i>