



3rd Annual Conference of
Society for Mitochondrial Research and Medicine – India

Mitochondria in Health and Disease

19th – 20th December, 2013

National Institute of Mental Health and Neuro Sciences

Bangalore, Karnataka, India



Pre-Conference Workshop

18th December, 2013

“OROBOROS O2k Workshop on High-Resolution respirometry and O2K- Fluorometry – IOC83”

Prof. Gnaiger Erich

OROBOROS INSTRUMENTS

Innsbruck, Austria

Time : 10.00 – 15.00

**Venue : Room No. 205, Neuromuscular Lab,
Neurobiology Research Centre,
NIMHANS**

Venue
Convention Center , NIMHANS
Bangalore-560 029, Karnataka

Web page
www.mitoindia.org
www.nimhans.kar.nic.in

Conference Secretariat
Department of Neuropathology, NIMHANS, Bangalore-560029,
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SCIENTIFIC PROGRAMME

Day 1: December 19, 2013 (Thursday)

Time	Session
08.00-09.00	Registration and Breakfast
09.00-09.30	Inauguration
09.40-10.10	Plenary Talk Chair : Dr. Keshav K. Singh, University of Alabama, Birmingham, USA Dr. S K Shankar, NIMHANS, Bangalore, India <i>Bruce H.Cohen, Cleveland Clinic Foundation, Ohio, USA</i> “Clinical aspects of Mitochondrial Disease”
10.10-10.40	Coffee/ Tea
10.40-11.55	Session 1 : Cell biology of mitochondria in Cancer Chair : Dr. Satyamoorthy, Manipal University, Karnataka, India Dr. Vani Santosh, NIMHANS, Bangalore, India.
10.40-11.05	1. <i>Keshav K. Singh, University of Alabama, Birmingham USA.</i> “Genetic Insight into Warburg Effect and its Role in Cancer”
11.05-11.30	2. <i>Dhyan Chandra, Roswell Park Cancer Institute, Buffalo, USA</i> “Mitochondrial Regulation of Apoptosis in Cancer”
11.30-11.55	3. <i>Yau-Huei Wei, Mackay Medical College, Taipei, Taiwan.</i> “Oxidative stress regulation of mitochondrial F ₀ F ₁ ATPase activity by Sirt3-mediated deacetylation in human cells”
11.55-13.10	Session 2 : Mitochondria in Aging Chair: Dr. P. M. Gopinath, Manipal University, Karnataka, India Dr. Mercy Davidson, Columbia University Medical Center, USA.
11.55-12.20	1. <i>Gnaiger Erich, Medical University of Innsbruck, Austria</i> “Aging, Life Style and Mitochondrial Functional Competence”
12.20-12.45	2. <i>Lene Juel Rasmussen, University of Copenhagen, Denmark</i> “Molecular mechanisms underlying age-related genomic instability”
12.45-13.10	3. <i>Ullas Kolthur-Seetharam, TIFR, Mumbai, India</i> “NAD-sensing and nuclear-mitochondrial communication: from aging to Diseases”
13.10-14.00	Lunch and Posters

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14.00-16.05	Session 3 : Mitochondria - Biology and History Chair: Dr. A K. Meena, NIMS, Hyderabad India. Dr. Lene Juel Rasmussen, University of Copenhagen, Denmark.
14.00-14.25	1. Shanta Dhar , University of Georgia, USA. “Guided Armored Vessels for Delivery of Contrast Agents and Therapeutics”
14.25-14.50	2. Samit Adhya , CSIR-Indian Institute of Chemical Biology, Calcutta, India “Role of mitochondrion-regulated energy sensing in skeletal muscle regeneration”
14.50-15.15	3. Rajendra K. Agrawal , School of Public Health, Wadsworth Center, USA “Structural Studies of the Mammalian Mitochondrial Translational Apparatus”
15.15-15.40	4. K. Satyamoorthy , Manipal University, Karnataka, India “TFAM: a regulator of mitochondria maintenance and function”
15.40-16.05	5. K. Thangaraj , CCMB, Hyderabad, India “Mitochondrial DNA: The Taleteller”
16.05-16.30	Coffee/Tea
16.30-18.10	Session 4 : Mitochondria in Neuromuscular and Related Disorders Chair: Dr. Yasha TC, NIMHANS, Bangalore, India Dr. Finsterer J, University of Vienna, Austria
16.30-16.55	1. Mercy M. Davidson , Columbia University Medical Center, New York, USA. “Targeting the blood brain barrier in MELAS”
16.55-17.20	2. Madhu Khullar , PGIMER, Chandigarh, India “Spectrum of mitochondrial genome variations in non-Syndromic hearing loss: A Study in North Indian Population”
17.20-17.45	3. Subramaniam Ganesh , I.I.T. Kanpur, India “Mitochondrial dysfunctions in Lafora neurodegenerative disorder”
17.45-18.10	4. P. S. Bindu , NIMHANS, Bangalore, India “Pediatric Mitochondrial disorders - NIMHANS experience”
18.15-19.00	General Body Meeting
19.00-Onwards	Cultural Programme followed by dinner.



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Day 2: December 20, 2013 (Friday)

Time	Session
08.00-09.00	Breakfast
09.00-10.00	Plenary lecture Chair: Dr. Bruce Cohen, Ohio, USA Dr. Samit Adhya, CSIR-Indian Institute of Chemical Biology, Kolkata
09.00-09.30	1. Dr. Arun B Taly , NIMHANS, Bangalore, India “Mitochondrial disorders - A Neurologist Perspective”
09.30-10.00	2. Finsterer J , University of Vienna, Austria “Therapeutic strategies in mitochondrial disorders”
10.00-10.48	Session 5 : Short Presentation Chair: Dr. Anu Suomalainen Wartiovaara, University of Helsinki, Finland Dr. Thangaraj, CCMB, Hyderabad, India
10.00-10.12	1. Sonam Kothari , NIMHANS, Bangalore, India “Mitochondrial Complex I deficiency: Phenotypic and magnetic resonance imaging analysis”
10.12-10.24	2. Ved P. Mooga , University of Melbourne, Australia. “Biochemical characterization of mitochondria from Tom40 mutant mice”
10.24-10.36	3. Prasad VVTS , Basavatarakam Indo-American Cancer Hospital & Research Institute, Hyderabad, India. “Mitochondrial DNA Mutations in Various Cancers”
10.36-10.48	4. Nahid A Khan , University of Helsinki, Finland “Nicotinamide Riboside Induces Mitochondrial Biogenesis and Delays Progression of Adult-Onset Mitochondrial Myopathy”
10.48-11.05	Coffee/ Tea
11.05-13.10	Session 6 : Mitochondria Disease, Diagnostics and Therapeutics Chair: Dr. Nalini A, NIMHANS. Bangalore, India Dr. Upender Manne, University of Alabama, Birmingham, USA
11.05-11.30	1. Anu Suomalainen Wartiovaara , University of Helsinki, Finland “Physiological consequences of respiratory chain dysfunction: clues to tissue specificity”
11.30-11.55	2. Challa Sundaram , NIMS, Hyderabad, India “Mitochondrial dysfunction and lipid accumulation in skeletal muscle”

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11.55-12.20	3. P Sundaresan , Aravind Medical Research Foundation , Madurai, India “Whole Mitochondrial Genome Sequencing in Primary Open Angle Glaucoma using the Ion Torrent Personal Genome Machine”
12.20-12.45	4. Suresh Mishra , University of Manitoba, Winnipeg, Canada “A novel and unique transgene obese mouse model developed by mitochondrial remodeling in adipocyte”
12.45-13.10	5. A K Meena , NIMS, Hyderabad, India. “MELAS: Case report highlighting clinical and therapeutic aspects”
13.10-14.00	Lunch and posters
14.00-16.05	Session 7: Workshop on Biomarker development strategies Chair: Dr. Erich Gnaiger, Medical University of Innsbruck, Austria
14.00-14.25	1. Upendar Manne , University of Alabama, Birmingham, USA.
14.25-14.50	2. Karan P. Singh , University of Alabama, Birmingham,, USA.
14.50-15.15	3. Sejong Bae , University of Alabama, Birmingham, USA.
15.15-15.40	4. Chandrika Piyathilake , University of Alabama, Birmingham, USA.
15.40-16.05	5. Suguna Badiga , University of Alabama, Birmingham,, USA.
16.05-16.30	Coffee/ Tea
16.30-17.30	Session 8 : Case Discussion Panel: Dr. AB Taly, NIMHANS, Bangalore, India Dr. Bruce Cohen, Cleveland Clinic Foundation, Ohio, USA. Dr. Finsterer J, University of Vienna, Austria
17.30-17.45	Genotypic Technology (P) Ltd, Bangalore
17.45-18.30	Concluding Session
19:00 Onwards	Dinner

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