

## **NUS-VIT Symposium “Theranostics in Health and Disease” 20<sup>th</sup> - 22<sup>nd</sup> July 2017**

### **DAY 1 - 20<sup>th</sup> July 2017**

**Registration (08.00 am – 09.00 am)**

**Inauguration (09.30 am – 10.30 am)**

**Tea (10.30 am – 10.50 am)**

### **Session 1 (11.00 am – 1:00 pm) (120 minutes)**

**Chairpersons: Dr. Prakash Hande/Dr. K. M. Gothandam, VIT**

**Dr. S Thameem Dheen, National University of Singapore, Singapore**

Maternal diabetes-induced epigenetic changes contribute to neurological disorders in offspring

**Dr. Lina Lim, National University of Singapore, Singapore**

Annexin-A1, an anti-inflammatory and pro-resolution mediator: exploiting its pathway for development of novel anti-inflammatory drugs

**Dr. Venkatesh Krishnamurthy, Genotypic Tech, Bangalore**

Applying Genomics to make Therapeutic decisions - a view from the technologies, options and costs for setting up a Genomics lab in a hospital.

**Dr Sumita Danda, Christian Medical College & Hospital, Vellore**

Molecular Theranostics or Theranostics in Personalised Medicine

**Lunch (1.00 pm – 2.00 pm)**

### **Session 2 (2.15 pm – 4.00 pm) (105 minutes)**

**Chairpersons: Dr. S Thameem Dheen/Dr. R Vijayaraghavan, VIT**

**Dr. Han Ming Shen, National University of Singapore, Singapore**

Regulation of lysosomal function in the course of autophagy: from molecular mechanisms to potential applications

**Dr. Thiruma (Garrie) V Arumugam, National University of Singapore, Singapore**

Intermittent fasting and Neuroprotection: Evidence and Mechanisms

**Dr. P.S. Suresh, Mangalore University, Mangalore.**

A tale of phosphatase-oestradiol receptor cross talk in breast cancer: Biological implications and therapeutic opportunities

**Dr. Radha Saraswathy, VIT University, Vellore**

An update on genetic research and diagnosis at BMGRL, SBST, VIT : 2003 – 2017

**Tea (4.00 pm – 4.15 pm)**

**Session 3 (4.15 pm – 5.45 pm) (90 minutes)**

**Chairpersons: Dr. Sajikumar Sreedharan / Dr. MA Vijayalakshmi, VIT**

**Dr. Haiyan Liu, National University of Singapore, Singapore**

Inflammatory cytokines modulating tumour microenvironment as potential targets for immunotherapy

**Dr. Srinivasan Dinesh Kumar, National University of Singapore, Singapore**

Nanotherapeutic strategies in bone tissue engineering

**Dr. Subbiah Shanmugam, Government Royapettah Hospital, Chennai**

Cancer treatment – expectations and challenges

**Poster session (5.45 pm – 7.15 pm)**

**Dinner (7.30 pm onwards)**

**DAY 2 – 21<sup>st</sup> July 2017**

**Session 4 (9.15 am – 10.45 am) (90 minutes)**

**Chairpersons: Dr. Biren Banerjee/**

**Dr. Sagar Sengupta, National Institute of Immunology, New Delhi**

Mechanisms linking DNA damage response to repair processes

**Dr. Ganesh Nagaraju, Department of Biochemistry, Indian Institute of Science, Bangalore**

Trans-dichlorooxovanadium (IV) complex as a novel photo inducible DNA interstrand crosslinker for cancer therapy

**Dr. B S Dwarakanath, Sri Ramachandra University, Chennai.**

Metabolic reprogramming; a theragnostics target in cancer

**Tea (10:45 am – 11.00 am)**

**Key Note Address (11:00 am to 11:45am)**

**Chairpersons: Dr. Radha Saraswathy/Dr. Prakash Hande**

**Dr. S P Thyagarajan, Sri Ramachandra University, Chennai**  
Research on AYUSH Drugs in Diseases of the Elderly: Sri Ramachandra University experience

**Session 5 (11.45 am – 1.00 pm) (75 minutes)**

**Chairpersons: Thiruma (Garrie) Arumugam/**

**Dr. Sajikumar Sreedharan, National University of Singapore, Singapore**  
History Matters: Tracing Metaplasticity in Alzheimer's Brain

**Dr. Karthik Mallilankaraman, National University of Singapore, Singapore**  
Pathophysiology of mitochondrial calcium signalling

**Dr. A. Narmada, Nalam Medical Centre & Hospital, Vellore**  
Nanopediatrics: the future directions

**Lunch (1.00 pm – 2.00 pm)**

**Session 6 (2.15 pm – 3.45 pm) (90 minutes)**

**Chairpersons: Dr. B. S. Dwarakanath/ Dr. A.Nirmala Grace**

**Dr. Swaminathan Sethu, Narayana Nethralaya Foundation, Bangalore.**  
Immune monitoring in ocular diseases - Towards newer evidence & treatment strategies

**Dr. Birendranath Banerjee, KIIT University, Bhubaneswar.**  
Next generation molecular diagnostics for Precision medicine

**Dr. Prakash Hande, National University of Singapore Singapore**  
Targeting telomerase and DNA repair in Cancer Therapy

**Tea (4.00 pm – 4.15 pm)**

**Session 7 (4.15 pm – 5.15 pm) (60 minutes)**

**Panel Discussion**

**Oncology Molecular Fertility and Life Style Medicine**

Dr. Biren Banerjee – Moderator

Panelists:

Dr. R. Rajavelu, GVMCH, Vellore

Dr. Sumita Danda, CMC, Vellore

Dr Prakash Hande, NUS

**Poster session (5.30 pm – 6:30 pm)**

**Dinner (7.30 pm onwards)**

**DAY 3 – 22<sup>nd</sup> July 2017**

**Session 8 (10.00 am – 12.00 pm)**

Short Talks:

- 1) Dr Thejaswini Venkatesh, Central University of Kerala, Kerala
- 2) Dr. K. Thenmozhi, VIT University, Vellore

**Young Scientists Award: Presentation by (1, 2, 3, 4, 5)**

**Lunch 12.30 – 2.00 pm**

**Session 9 (2.00 pm – 3.15 pm)**

**Career counselling by NUS faculty**

**Valedictory Function**

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