



**Joint Symposium  
between BSSE@IISc  
and MSCTR@NH**



BioSystems Science and Engineering (BSSE)  
Mazumdar Shaw Center for Translational Research (MSCTR)  
Narayana Hrudayalaya (NH)

**20 August, 2016**

**Venue: MRDG Seminar Hall, First Floor, Biological Sciences Building**

**Programme**

| Time  | Talk  | Speakers   |
|---|---|--|
| <b>Welcome and introductions</b>  |   |  |
| 9:30-9:35   | Welcome and introduction  | G. K. Ananthasuresh,<br>Sandhya S. Visweswariah<br>(Co-chairs, BSSE) |
| 9:35-9:40   | Introducing MSMF  | Sharat Damodar   |
| 9:35-9:45   | Introducing MSCTR   | Moni Abraham Kuriakose   |
| <b>Session 1: Bioengineering Technologies<br/>Session chair: Kaushik Chatterjee</b> |   |  |
| 9:45-10:00  | Research Talk: Reconstruction after H&N cancer surgery  | Moni Abraham Kuriakose<br>(MSCTR)                                    |
| 10:00-10:10   | Research Talk: 3D powder printing based fabrication of designed Ti6Al4V implants for bone tissue engineering applications | Bikramjit Basu<br>(BSSE/MRC, IISc)                                   |
| 10:10-10:25   | Research Talk : Bone Re-engineering   | Murali Nagarjuna<br>(MSCTR)  |
| 10:25-10:35   | Research Talk: Biomechanics   | Namrata Gundaiah<br>(BSSE/MechE, IISc)                               |
| 10:35-10:50   | Clinical/Research Talk: Engineering 3D tumor microenvironments  | Aditya Chaubey (MSCTR)   |
| 10:50-11:00   | Research Talk: Polymer scaffolds for Tissue engineering   | Kaushik Chatterjee<br>(BSSE/Materials, IISc)                         |
| 11:00-11:10   | Research Talk: Immuno-engineering   | Siddharth Jhunjhunwala<br>(BSSE, IISc)                               |
| <b>11:10-11:20</b>  | <b>Short break for coffee/tea</b>   |  |

| <b>Session Chair: Shilpee Jain</b>     |  |  |
|--|--|--|
| 11:20-11:35                            | Clinical Talk : Made in India devices in nephrology: fruit of collaboration between IISc and MSCTR(NH) | Llyod Vincent (NH )                    |
| 11:35-11:45                            | Technology Talk:   | Amaresh Chakrabarti (CPDM, IISc)       |
| 11:45-11:55                            | Technology Talk: Neonatal monitoring device  | Bharadwaj Amruthur (RBCCPS/ECE, IISc)  |
| 11:55-12:05                            | Technology Talk: Endoscopy simulator   | Shantanu Chakraborty (ME, IISc)        |
| 12:05-12:15                            | Technology Talk: PoC health device   | Sai Siva Gorthy (IAP, IISc)            |
| 12:15-12:25                            | Technology Talk: Fibre-Bragg biosensor   | Sundarrajan Asokan (RBCCPS/IAP, IISc)  |
| 12:25-12:35                            | Technology Talk: Automated in vitro fertilization platform   | Santosh Bhargav (Bendflex, ME, IISc)   |
| 12:35-12:45                            | Technology Talk: Prosthetic hand   | Dibakar Sen (CPDM, IISc)               |
| <b>Session 2: Cancer and Therapies</b> |  |  |
| <b>Session chair: Manjula Das</b>      |  |  |
| 14:00-14:15                            | Clinical Talk: head and neck (H&N) cancers   | Amritha Suresh (MSCTR)                 |
| 14:15-14:25                            | Research Talk: Oral cancers  | Annapurni Rangarajan (BSSE/MRDG, IISc) |
| 14:25-14:40                            | Clinical/Research Talk : Early detection in Oral Cancer  | Sumsum Sunny (MSCTR)                   |
| 14:40-15:00                            | Research Talk: Oral fibrosis AND Neuro-oncology efforts at IISc  | Paturu Kondaiiah (BSSE/MRDG, IISc)     |
| 15:00-15:15                            | Clinical Talk: Neuro-Oncology and MSCTR  | Komal Prasad (NH/MSCTR)                |
| 15:15-15:30                            | Clinical Talk : Bone marrow transplantation and immunotherapy in leukemia                              | Sharat Damodar (MSCTR)                 |
| 15:30-15:45                            | Clinical/Research Talk: Translation of Research at MSCTR   | Manjula Das (MSCTR)                    |