

**Project List**

1. Prof. G K. Ananthasuresh - **Prophylactic and self-offloading diabetic footwear**
2. Dr. Rachit Agarwal - **Rapamycin Carriers for Treatment of Osteoarthritis**
3. Prof. Kaushik Chatterjee - **Engineering 3D culture platforms for control of myoblast function**
4. Prof. Deepak Saini - **Pathophysiological analysis of infection wrt age of the host using cellular, molecular and immunological markers**
5. Dr. Mohit Kumar Jolly - **Mathematical modeling of feedback loops in homeostasis vs. cancer**
6. Prof. Bikramjit Basu – **Customized Patient Specific PMMA Implants in Cranioplasty using to improve surgical accuracy and post-operative complications**
7. Prof. Bikramjit Basu – **Novel alloplastic Neo-bladder development to treat Bladder Carcinoma**
8. Prof. Sandhya Visweswariah- **Molecular and genetic analysis of early onset pancreatitis**
9. Prof. Sandhya Visweswariah- **The role of a receptor guanylyl cyclase in gut physiology**
10. Dr. Siddharth Jhunjhunwala – **Micro-particle surface modification for altering immune cell mediated phagocytosis**
11. Prof. Annapoorni Rangarajan – **Cancer stem cells**
12. Dr. Bhushan Toley – **Paper-based devices for nucleic acid amplification testing**

## **Schedule (May – June 2019)**

12 May 2019	Arrival at IISc
13 May 2019	Orientation (Siddharth Jhunjunwala)
13 May – 6 June	Experimental work in respective laboratories
27 May – 28 May	Lectures on Biomechanics (G. K. Ananthasuresh)
3 June – 4 June	Lectures on Immunoengineering (Siddharth Jhunjunwala)
6 June	Final Presentations (Sandhya Visweswariah)