## **Title of Project:** Proximal Femoral Locking Plates (PFLP): Biomechanical Exploration of Design Variants for North Eastern (NE) Population – SERB, INDIA **Dr. Souptick Chanda - Department of Biosciences and Bioengineering**



Journal: 3; Conference: 3

Patent (applied: Ref. No. 348843-001)

Double Oblique Device for

Osteosynthesis (DODO) of Hip

ti-rotation screv simal locking screw

## THEME

The project aims to pre-clinically explore anatomic design variants of extramedullary femur plates that suit NE population of India.

## **OBJECTIVES**

- In vitro assessment of two PFLP plates: straight and anatomic.
- In silico assessment and validation of the two designs using representative FE models.
- 3D reconstruction of multiple CT-scan dataset of patients using image processing
- Extramedullary femur plates for NE population.

