Dysfunction in calcium homeostasis due to any kind of toxin insults in brain can severely affect the neuronal firing, synaptogenesis and plasticity leading impaired cognition and neurodegeneration. Our lab is interested in understanding the effect of neurotoxins on brain milieu. Towards this, we have standardized the tool for imaging Ca2+ ions in human embryonic stem cell derived neurons.

**Under the guidance** of my supervisors Dr. Shailja Singh and Dr. Soumya Pati, I presented one of our unpublished artwork entitled as “**Calcium ion imaging of hESC-derived neurons**” in the Visual Sparks competition held in 14th annual scientific event BioSparks 2016 on March 18, 19th 2016 at School of Life Sciences, JNU and won the first prize and cash prize. I would like to express special gratitude my supervisors for their continual support and motivation. This event has immensely motivated me to achieve best with dedication and hard work.