



साहा इंस्टिट्यूट ऑफ न्युक्लियर फिजिक्स
Saha Institute of Nuclear Physics

वार्षिक प्रतिवेदन एवं परीक्षित लेखा विवरण

ANNUAL REPORT AND AUDITED STATEMENT OF ACCOUNTS



2022-23

Serotonin (STN) and Kynurenine (KYN) which are metabolites of L-Trypto-phan in the human body system. The present study mechanistically surveys the role of seed-induced RIISF- modulated anisotropy in controlling the catalytic activity which offers a universal 3D electrocatalytic sensing tenet by an electrocatalytic approach.

Awards or distinctions received by group members

1. Prof. Sangram Bagh admitted as a Fellow of the Royal Society of Chemistry, UK (August 2022)
2. Prof. H Raghuraman elected as *Editorial Board Member* in *Biophysical Journal* and *Biophysical Reviews and Letters* (Associate Editor)
3. Rupasree Brahma received the *Best Poster Award* at the HBNI theme meeting (HBNI-TM-LS) held at RRCAT, Indore, India and *Biophysical Society BPS2023 Travel Award*.

Conference / workshop organized by the group

2nd HBNI Theme Meeting on Life Sciences, February 16-17, 2023 at SINP

Invited talks given by group members

Dulal Senapati

Innovative ideas in developing nanoscale materials for energy, sensing, and therapeutics, 1st HBNI meeting in Chemical Science at NISER, Bhubaneswar, January 18-20 2023.

Synthesis, Characterization, and Application of Anisotropic Plasmonic Nanomaterials, IIT-ISM Dhanbad, November 11 2022.

Plasmonic Nanoscale Materials: Application in Fluorescence Spectroscopy and Imaging, Midnapore College, September 9 2022.

Nanoscience and Nanotechnology: A Common Playground for Chemists, Physicists, and Biologists, SINP Summer Training Program, June 16 2022.

Anisotropic Nanomaterials and Force Microscopy: Atomic Scale Manipulation for Effective Sensing, Therapeutics, and Diagnostics, Midnapore College on the occasion of 150th anniversary, April 11-13 2022.

Kaushik Sengupta

10th Annual Meeting of Chemical Biology Society (India), March 24–25, 2023, Bhubaneswar, India

International Meeting of the German Society for Cell Biology (DGZ), July 20-24, 2022, Potsdam, Germany

44th Indian Biophysical Society Meeting, March 30 – April 1, 2022, Mumbai, India