

Preincubation Unit
Proteomics

In-Charge:

Dr. N.M. Raghavendra
Professor & RnD Coordinator

Equipment's available

1. Electrophoresis and Blotting- Biorad
2. Microplate Reader-Tecan Infinite M200 Pro
3. Gel Documentation Gel Image W/UV Light Base-Life
4. CO₂ incubator
5. Inverted Microscope (Evos XL Core Fixed stage - F0514)
6. Pierce Powder Blotter station-Crystal bio
7. Micro Centrifuge (SKR-1807-S)

Experiments conducted

1. Quantification & degradation of proteins (Oncoproteins, Immunomodulatory, Growth Factor Proteins, Transporters, GPCRS, Ion Channels, Nuclear Receptors, etc.) by SDS-PAGE and Western blotting, ELISA studies.
2. Evaluation of receptor downstream responses including TNF- α , IL-6, IL-1 β , IFN γ , IKK/NF-k β , Ras, B-RAF, Hsp90, HER2, EGFR, AKT, PI3K, PD-1, etc.
3. Myeloperoxidase, Eosinophil peroxidase and nitric oxide assays in monocyte-derived cell lines
4. Protein mapping and Enzyme binding studies via cell-based assays through competitive binding and DARTS assays.
5. Analyte Detection: Quantify specific cellular analytes (e.g. cAMP, cGMP).
6. DNA & RNA: Cloning, DNA sequencing, gene expression, 16s and 18s rRNA sequencing and phylogenetic analysis.

