

Research Group		Topics/Research Areas (For a detailed list, see SLS website www.jnu.ac.in/sls)	Faculty Members (Student Intake for the year 2024-25) **FN : intake of Foreign National
No. Code	Group Name		
I GONH	Plant Biology and Biotechnology	Regulation of geminivirus pathogenesis & Gene editing for plant virus tolerance	Prof. Supriya Chakraborty (2) [+FN-1]
		Plant Immunology	Prof. Ashis Kumar Nandi (0)
		Stress Physiology	Prof. Ashwani Pareek (0)
		Genomics-assisted breeding, Fungal effectors, and their host targets	Prof. Praveen Kumar Verma (1)
		Plant developmental biology, Plant small RNAs, and genome editing	Prof. Ananda Kumar Sarkar (1)
		Comparative genomics, computational and systems biology of crop plants	Prof. Nirala Ramchiary (2) [+FN-1]
		Plant Molecular Biology and Evolution; Plant Fungal Interactions; Gene Editing	Dr. Bhupendra Chaudhary (2)
II GTWH	Microbiology	Functional genomics of abiotic stress & Nutrient use efficiency in crop plants	Dr. Amarjeet Singh (2)
		Antimicrobial resistance and membrane transporters	Prof. Atul Kumar Johri (2) [+FN-1]
III GTRH	Cellular and Molecular Biology	Microbiology; Cancer remedies	Prof. Arun S. Kharat (2) [+FN-1]
		Noncoding RNAs, and Stem Cells	Prof. Pramod C Rath (0)
		Transcription, chromatin, and gene regulation	Prof. K. Natarajan (0)
		Animal developmental biology	Prof. Shweta Saran (0)
		Molecular biology of drug resistance and virulence in emerging fungal pathogens (<i>Candida</i> spp.)	Prof. Sneha Lata Panwar (3)
		Epigenetic changes and cellular signaling in cell cycle regulation	Dr. Neelima Mondal (3); [+FN-1]
		Genetics & Genomics: Genetic predisposition of human diseases	Dr. Ekta Rai (1)
		Innate immune mechanisms in infectious and non-infectious diseases	Dr. Niti Puri (1)
IV GFOH	Cancer Biology and Neuroscience	Cellular and Molecular parasitology	Dr. Abhisheka Bansal (1)
		Nuclear Receptor signaling in human physiology and diseases	Dr. Vikas Yadav (1)
		Cancer research	Prof. Rana Pratap Singh (2)
		Neurodegenerative Diseases: Molecular Mechanisms and Therapeutic Interventions	Prof. Amal C. Mondal (2) [+FN-1]
		Cancer Biology, DNA repair & epigenetics	Prof. Shilpee Dutt (2)
V GFIH	Biochemistry, Biophysics and Computational Biology	Sleep and Cognitive Science	Dr. Sushil Kumar Jha (1) [+FN-1]
		Radiation and Cancer therapy	Dr. Ashu Bhan Tiku [1]
		Structural and functional analysis of human infections and cancer-related proteins	Prof. Ajay Kumar Saxena (2) [+FN-1]
		Understanding the phagocytosis in <i>E. histolytica</i> ; Structural studies of crucial targets in pathogens and inhibitor development	Prof. S. Gourinath (2)
		Biochemistry of GPI anchor biosynthesis, regulation, and function in <i>Candida albicans</i>	Prof. Sneha Sudha Komath (1)
		Chromatin remodeling and epigenetics	Prof. Rohini Muthuswami (1)
		Molecular mechanism of amyloid diseases & prevention strategies; Metabolite self-assembly & In-born metabolic disorders; Genesis of biologically relevant Nano-structures using single molecule building blocks	Dr. Karunakar Kar (2)
		Computational Study of Rare Genetic Diseases	Dr. Devinder Kaur (2)