

## RESEARCH GROUPS IN THE SCHOOL OF LIFE SCIENCES

Research in the School of Life Sciences is organized into five thematic research areas. Each faculty member is listed alongside the respective Research Group.

Research Group		Topics/Research Areas (For a detailed list, see SLS website <a href="http://www.jnu.ac.in/sls">www.jnu.ac.in/sls</a> )	Faculty Members (Student Intake for the Monsoon semester 2026_27) **FN : intake of Foreign National
No. Code	Group Name (Total Intake 2026-27)		
I GONH	Plant Biology and Biotechnology [5]	Regulation of geminivirus pathogenesis & Gene editing for plant virus tolerance	Prof. Supriya Chakraborty (1) (+ FN:1)
		Infection memory development in plants	Prof. Ashis Kumar Nandi (1) (+ FN:1)
		Stress Physiology	Prof. Ashwani Pareek (0)
		Genomics of plant microbe interactions, Pathogen effectors and host targets	Prof. Praveen Kumar Verma (1) (+ FN:1)
		Plant miRNA and Genome editing	Prof. Ananda Kumar Sarkar (0)
		Comparative genomics, computational and systems biology of crop plants	Prof. Nirala Ramchiary (1)
		Plant molecular biology, Crop plants evolution, Gene editing	Dr. Bhupendra Chaudhary (1) (+ FN:1)
II GTWH	Microbiology [6]	Antimicrobial resistance and membrane transporters	Prof. Atul Kumar Johri (2) (+ FN:1)
		Cancer Biology; Microbiology	Prof. Arun S. Kharat (1) (+ FN:1)
		Microbial bio-prospecting for biofuels, bioplastics and antimicrobials	Prof. Kiran Babu Uppuluri (2) (+ FN:1)
		Host-pathogen interaction; <i>Mycobacterium tuberculosis</i>	Dr. Stanzin Dawa (1) (+ FN:1)
III GTRH	Cellular and Molecular Biology [8]	Virulence and antifungal resistance in <i>Candida</i>	Prof. Sneha Lata Panwar (1) (+ FN:1)
		Epigenetic changes and cellular signaling in cell cycle regulation	Dr. Neelima Mondal (1) (+ FN:1)
		Genomics in human diseases	Dr. Ekta Rai (0)
		Nuclear Receptor signaling in human physiology and diseases	Dr. Vikas Yadav (2) (+ FN:1)
		Stem and progenitor cells maintenance in <i>Drosophila</i>	Dr. Bama Charan Mondal (2) (+ FN:1)
		Innate immune mechanisms in infectious and non-infectious diseases	Dr. Niti Puri (0) (+ FN:1)
		Cellular and Molecular parasitology	Dr. Abhisheka Bansal (1)
		Gene regulation and epitranscriptomic dynamics in human disease	Dr. Pankaj K Giri (1) (+ FN:1)
IV GFOH	Cancer Biology and Neuroscience [4]	Cancer research	Prof. Rana Pratap Singh (0)
		Neurodegenerative Diseases: Molecular mechanisms and Therapeutic interventions	Prof. Amal C. Mondal (1) (+ FN:1)
		Cancer Biology, DNA repair & Epigenetics	Prof. Shilpee Dutt (2) (+ FN:1)
		Sleep, Cognitive Science and Neuroscience	Dr. Sushil Kumar Jha (1) (+ FN:1)
		Radiation and Cancer therapy	Dr. Ashu Bhan Tikku [0]
V GFIH	Biochemistry, Biophysics and Computational Biology [4]	Structural and functional analysis of human disease-related proteins	Prof. Ajay Kumar Saxena (1) (+FN:1)
		Structure-based drug discovery	Prof. S. Gourinath (1) (+ FN:1)
		GPI anchor biosynthesis in fungi : Biochemistry and regulation	Prof. Sneha Sudha Komath (1) (+ FN:1)
		Chromatin remodeling and epigenetics	Prof. Rohini Muthuswami (0)
		Molecular mechanism of amyloid diseases & in-born metabolic disorders	Dr. Karunakar Kar (1) (+ FN:1)
		Genomics and transcriptomics profiling of human rare genetic diseases	Dr. Devinder Kaur (0)