

## Research Groups in the School of Life Sciences

Research in the School of Life Sciences is organized into five thematic research areas. Candidates should indicate their choices for 2 (Two) research areas in the order of their preference in the application form. Each faculty member is listed alongside one Research Group. However, as faculty members in the School of Life Sciences conduct inter-disciplinary research, they may be conducting research in other areas either independently or jointly with faculty members in the other groups.

Research Group		Topics (For a detailed list, see SLS website <a href="http://www.jnu.ac.in/sls">www.jnu.ac.in/sls</a> )	Faculty Members conducting research in the area mentioned *Faculty not taking students in 2020-2021
No. Code	Group Name		
I GONH	Plant Biology; Virology; Biotechnology	Biology of Plant-virus Interactions; Plant- microbe Interactions; Functional Genomics and Metabolomics of Abiotic stress in Crop Plants; Comparative, Functional and Evolutionary Genomics of Capsicum species	SC(2), AN(1), AP(2), NR*
II GTWH	Microbiology; Immunology; Infectology, Radiation and Cancer Biology	Carcinogenesis, Cancer Chemoprevention and Therapeutics; Yeast Molecular and Cell Biology; Microbiology; Cell Signaling and Cancer Biology; Yeast Molecular Genetics in <i>S. cerevisiae</i> and the pathogenic fungus <i>Candida albicans</i> ; Radiation and Cancer therapeutics; Molecular Mechanisms and protein traffic during immune cell effector responses; Cell and molecular biology of the malaria parasite, <i>Plasmodium falciparum</i>	RPS(1), AKM*, AKJ(2); ASK*, NM(2), SLP(1), ABT*, NP*, AB(1)
III GTRH	Genetics; Cell & Molecular Biology; Developmental Biology	Non-coding RNA, Stem Cells; Chromatin, transcription and Gene Regulation; Developmental biology with emphasis on autophagy in <i>Dictyostelium</i> ; Epigenetics & Chromatin Remodeling	PCR(2), KN(2), SS(1), RM(1)
IV GFOH	Animal Physiology; Neurosciences and Systems Biology	Neurobiology of Sleep-Waking-REM Sleep; Brain Ageing and its counter strategies; Sleep, Learning and Memory; Neurodegenerative disorders	BNM*, DS*, ACM*, SKJ(2)
V GFIH	Biochemistry; Biophysics; Bioinformatics; Nanobiology	Structural Biology; Structural & Parasite Biology; Biophysical Chemistry; Biophysics, Nanobiotechnology	AKS(2), SGN(2), SSK(1), KK(1)

**Number in parenthesis indicates student intake for a particular laboratory during 2020-21 academic session. For any update, please visit website of SLS/JNU/NTA .**

**Faculty Members:** Prof. Birendra Nath Mallick (BNM), Prof. Pramod Rath (PCR), Prof. K. Natarajan (KN), Prof. Shweta Saran (SS), Prof. Supriya Chakrabarty (SC), Prof. Ajay Kumar Saxena (AKS), Prof. Deepak Sharma (DS), Prof. Rana Pratap Singh (RPS), Prof. Ashis Kumar Nandi (AKN), Prof. Ashwani Pareek (AP), Prof. Alok Kumar Mondal (AKM), Prof. Atul Kumar Johri (AKJ), Prof. Sneha Sudha Komath (SSK), Prof. S. Gourinath (SGN), Prof. Arun S. Kharat (ASK), Dr. Neelima Mandal (NM), Dr. Sushil Kumar Jha (SKJ), Dr. Rohini Muthuswami (RM), Dr. Amal C. Mandal (ACM), Dr. Sneh Panwar (SLP), Dr. Ashu Tiku (ABT), Dr. Niti Puri (NP), Dr. Nirala Ramchiary (NR), Dr. Karunakar Kar (KK), Dr. Abhisheka Bansal (AB).