## Priority research domains for aspirants to join NIAB under PhD program

Scientist	Thematic area for the prospective PhD student
Dr G Taru Sharma	1. Stem Cell Therapeutics
Dr Sandeep Goel	<ol> <li>Stem cell biology</li> <li>Organoid biology</li> </ol>
Dr HBD Prasad	<ol> <li>DNA damage and repair</li> <li>Aging</li> </ol>
Dr Bappaditya Dey	<ol> <li>Molecular immunology</li> <li>Vaccine development</li> <li>Pathobiology of Tuberculosis &amp; other Mycobacterial diseases</li> </ol>
Dr Pankaj Suman	<ol> <li>Systems biology and Omics approaches in reproductive medicine</li> <li>Early stage biomarker and biosensor for precision livestock farming</li> </ol>
Dr Sonu Gandhi	<ol> <li>Biosensor Development-Electrochemical, Optical, Microfluidics, Lab-on-a-chip</li> <li>Nanomaterials based scaffolds for therapeutic applications</li> <li>Best from Laboratory Waste-for diagnostic potential</li> </ol>
Dr Shailesh Sharma	<ol> <li>IncRNA identification playing role in different physiological conditions</li> <li>Protein Structure calculation</li> <li>Molecular dynamics simulations, Docking and Screening calculations</li> </ol>
Dr Madhuri Subbiah	<ol> <li>Molecular Virology</li> <li>Host-pathogen interaction</li> <li>Understanding the molecular pathogenesis of viral disease</li> </ol>
Dr. Nirmalya Ganguli	<ol> <li>Generation of transgenic animal bioreactor for production of therapeutic protein.</li> <li>Germ cell/ Stem cell transplantation for generation of sperm with elite trait.</li> <li>Genome engineering to increase productivity in farm animals.</li> </ol>

Dr Abhijit Deshmukh	<ol> <li>Molecular Parasitology</li> <li>Gene regulation</li> <li>Cell cycle</li> </ol>
Dr Paresh Sharma	<ol> <li>Discovering new drug and vaccine targets for controlling lymphoproliferative disease caused by apicomplexan parasite Theileria</li> </ol>
Dr Santosh Dasari	<ol> <li>Endometrial Receptivity</li> <li>Endometritis</li> <li>Novel Therapeutics</li> </ol>
Dr Yash Pal	<ol> <li>Nutrigenomics</li> <li>Rumen microbiome</li> <li>Animal nutrition</li> </ol>