

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

1. Stem cell / germ cell transplantation and therapeutics
2. Organoids, scaffolds and tissue engineering
3. Host and pathogen genomics, genetic and genome engineering, transgenesis
4. Reproductive biology: follicular ageing, infertility, fecundity, assisted reproductive technologies
5. DNA damage & repair, aging, cell cycle, epigenetics & gene regulation
6. Infectious diseases: host-pathogen interactions, transcriptomics & proteomics, molecular parasitology, vaccines, diagnostics, therapeutics, antimicrobial resistance
7. Bioinformatics: computational genomics, systems biology, non-coding RNAs, molecular dynamics simulation and modeling
8. Nanobiotechnology: nanomaterial, delivery, therapeutics, aptamers, chemosensors, biosensors
9. Animal nutrition: rumen microbiota, nutrigenomics, nutrient delivery