



# DEPARTMENT OF BOTANY

## UNIVERSITY OF KASHMIR

### Main Focus

#### Biodiversity

Exploration at Spatial and Temporal Scales and Bio-prospection. Mullti-trophic Interactions

#### Environmental Change

Plant Invasion; Climate Change, Urbanization, Land Use Land Cover Changes

#### Crop Improvement

Germplasm Assessment and Characterization; Molecular Breeding; Varietal Development

#### Pest and Disease Management

Pest Identification and Monitoring; Economic Impacts, Pest Management with Focus on Biological Control

#### Reproductive Biology and Conservation

Reproduction Bottlenecks of Threatened and Endemic Plant species, In situ and Ex situ Conservation through Macro and Micropropagation, gene banks, seed banks

#### Molecular Biology

Omics Approach: Phenomics, Transcriptomics, Proteomics, and Metabolomics for Designer Crops

#### Plant Physiology and Biochemistry

Stress Physiology; Technology Development for Postharvest Management

#### Plant Science Society Interface

Skill Development in Cultivation of Economically Important Plants and Mushrooms; Public Awareness on Conservation and Sustainable Utilization of Plant Genetic resources