



# DEPARTMENT OF BOTANY (NORTH CAMPUS)

## UNIVERSITY OF KASHMIR

### EXTERNALLY SPONSORED RESEARCH PROJECTS (COMPLETED/ ONGOING/ SUBMITTED)

S. No.	Title of the Project	Principal Investigator/Co-PI	Funding Agency	Amount (in Lakhs)
1.	Autotetraploid induction in critically endangered high value Himalayan medicinal plant <i>Podophyllum hexandrum</i> as a means of, preventing extinction, mitigate climate change(s), colonize new ecogeographical regions and genetic improvement	Dr. Bilal Ahmad Mir (Principal Investigator)	Department of Biotechnology, Ministry of Science & technology, Govt. of India	28.62
2.	Cloning and expression of thermophilic/hyperthermophilic lignocellulose digesting enzymes in plants for advanced biofuel production	Dr. Bilal Ahmad Mir (Principal Investigator)	Department of Biotechnology, Ministry of Science & technology, Govt. of India	32.5
3.	Isolation and functional analysis of oxidosqualene cyclase genes in <i>Withania somnifera</i>	Dr. Bilal Ahmad Mir (Principal Investigator)	University Grants Commission, Govt. of India, New Delhi	10.00
4.	Metabolic engineering of Withanolides biosynthesis pathway in Indian ginseng ( <i>Withania somnifera</i> ) for enhanced withanolide accumulation	Dr. Bilal Ahmad Mir (Principal Investigator)	SERB, DST, Govt. of India	43.3
5.	<i>Diversity &amp; role of mycorrhizal fungi in promotion of agricultural productivity of some economically important plants of Kargil, Ladakh</i>	Dr. Nazima Rasool (Principal Investigator)	University Grants Commission, Govt. of India, New Delhi	10.00
6	<i>To link species diversity for sustainable management of forests in monsoonal and monsoon-shadow forest regions of Western Himalaya</i>	Dr. Nazima Rasool (Co-PI)	Ministry of Environment, Forests and Climate change under its NMHS programme	60.00
7.	Reproductive biology and conservation of <i>Aconitum violaceum Jacquem. ex Stapf</i> in Kashmir Himalaya	Dr. Aijaz Hassan Ganie (Principal Investigator)	University Grants Commission, Govt. of India, New Delhi	10.00
8.	Protein and gene expressions of IL1 $\beta$ , NF $\kappa$ B1, NF $\kappa$ B2, PPAR $\beta$ , NOS2, COX2, TNF $\alpha$ in LPS induced inflammatory response in rats and effect of <i>Cousinia thomsonia</i>	Dr. Aijaz Hassan Ganie (Co-PI)	DST, Govt. of India, New Delhi	33.00
9.	Invasive Alien Plants in Himalayas: Status, Ecological impact and Management	Dr. Aijaz Hassan Ganie (Co-PI)	Ministry of Environment, Forests and Climate change under its NMHS programme	60.00
10.	Ecology, monitoring, recovery and	Dr. Aijaz Hassan	Ministry of	63.00



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	bioprospection of some threatened plant species of Jammu, Kashmir and Ladakh in relation to regional socio-economic development	Ganie (Co-Principal Investigator)	Environment, Forests and Climate change under its NMHS programme	
11	Oxidative stress and diabetes, a correlated study by using active extracts of <i>Inula obtusifolia</i>	Dr. Aijaz Hassan Ganie (Co-PI)	JK Science Technology & Innovation Council, Department of Science and Technology	8.40
<b>Total Grant Mobilized</b>				<b>358.82</b>