



## 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 $\gamma$ , 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



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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 bioprospection of some threatened plant species of Jammu, Kashmir and Ladakh in relation to regional socio-economic development	Dr. Aijaz Hassan Ganie (Co-Principal Investigator)	Ministry of Environment, Forests and Climate change under its NMHS programme	63.00
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>