

LIST OF RESEARCH FUNDED PROJECTS FROM GOVT. AGENCIES

Ongoing projects

Sl. No.	Title	PI and Co-PI	Funding Agency	Duration Year	Total Cost (In lakhs)	Year of Sanction
1	Development of Valorised and Rural Centric Processes for Eco-Friendly Utilization of Coffee Waste for the preparation of Pectic oligosaccharides and fabrication of particle boards	Dr Nagahsree N Rao (PI) Dr Rajeswari M & Dr Ashwani Sharma (CoIs)	VGST	2	20	2025
2	Peptide based aptamer kit for rapid detection of mycobacterium tuberculosis	Dr Vidya Niranjana	MSME	1	15	2025
3	Regulation of Xanthosine metabolism and its effect on caffeine biosynthesis in coffee plants	Dr Nagashree Rao (PI) Dr Ashwani Sharma (Co-PI)	DBT	3	33.33	2023
4	Functional characterization of regulatory genes involved in pungency in capsicum species	Dr Nagashree Rao (PI) Dr Ashwani Sharma & Dr Shivandappa (Co- PIs)	DBT	3	11.92	2021

Completed Projects

Sl. No.	Title	PI and Co-PI	Funding Agency	Duration Year	Total Cost (In lakhs)	Year of Sanction
1	A Novel multiomics approach to predict the possible longterm complications of Covid 19	Dr Vidya Niranjana	ICMR	3	7.2	2021
2	Extraction of Bioactive compounds from citrus peel waste and formulation of edible product	Dr A V Narayan	KSTA	1	0.6	2021
3	Continuous column bioabsorption of azodyes from textile industry effulents using zinc oxides chitin nanocomposites	Dr Rajeshwari M	KSTA	1	0.35	2021
4	Kafifil – Kapok fibre based filter, Make in India Initiative	Dr Ashwani Sharma (PI) Dr Nagashree Rao (Co PI)	KSTA	1	0.7	2021

5	Development of natural fibre based oil absorbent for commercial and industrial application	Dr Nagashree Rao (PI) Dr Ashwani Sharma (Co-PI) Dr ShamAan(Co-PI)	AICTE	2	7.64	2020
6	Waste to energy	Dr Lingayya Hiremath Dr G Vijay Kumar Mr Narendra Kumar S Mr Praveen Kumar Gupta	KCTU	2	27.5	2017
7	Investigations on metabolite profile and betalains biosynthesis in <i>Basella</i> spp, An edible leafy vegetable	Dr. Ashwani Sharma (PI) Dr. Nagashree N Rao (Co-PI)	DBT	3	18.86 out of 82.03	2017
8	Regeneration, elicitation of Bioactive compound extracted from endangered medicinal plant <i>Mucina prureins</i> and study of its inhibition activity using biomolecular simulation studies	Dr Lingayya Hiremath Mr Shivandappa	KSCST	1	0.075	2017
9	Proteo-genomics study of Mulberry silkworm <i>Bombyx mori</i> ,	Dr. Pushpa Agrawal (PI) Dr. Vidya Niranjan (Co-PI)	DBT	1	23.40	2015
10	<i>Agrobacterium tumefaciens</i> mediated genetic transformation and over expression of <i>Arabidopsis thaliana</i> Phenyl alanine ammonia lyase (<i>ATPAL2</i>) in <i>Decalipes hamiltonii</i>	Dr. Nagashree N Rao (PI) Dr. Ashwani Sharma (Co-PI)	DBT	3	34.50	2014
11	Bio-inspired computing for the analysis of pectin in citrus fruits	Dr. Shobha G (PI) (CSE) Dr. Nagashree N Rao (Co-PI) Dr. Ashwani Sharma (Co-PI) Mr. A.E Manjunatha (CSE) (Co-PI)	NMFP-MOFPI	2	04.00	2014
12	Studies on the recovery of bioactive	Dr. A V Narayan (PI)	UGC	3	12.44	2013

	compounds from tomato waste using emerging technologies	Dr Ajeet K Srivatsava (Co-PI)				
13	Micropropagation studies and metabolite characterization in <i>Colacasia esculenta</i> (L.) Schott	Dr. Nagashree N Rao (PI) Dr. Ravindra S Kulkarni (Co-PI) Aerospace Engg	UGC	3	10.08	2013
14	Crop improvement of ginger (<i>Zingerber officinale</i>)	Dr. Neeta Shivakumar (PI) Dr. Pushpa Agrawal (Co-PI)	VTU	2	11.22	2010
15	Haploid plant regeneration from anther and microspore cultures of cotton (<i>Gossypium hirsutum</i> L)	Dr. H. G. Ashok Kumar (PI) Dr. Pushpa Agrawal (Co-PI)	VTU	2	10.02	2010
16	Formulation of gold/silver nano conjugates/ encapsulates with novel bioactive synthetic 1H-Pyrazol-2methoxyphenol derivatives as anti cancer therapeutics	Dr. Raju H (PI) Dr. Pushpa Agrawal (Co-PI)	UGC	2	08.66	2010
17	Exploitation of biomaterials from silk waste, 28 lakhs funded by DBT, New Delhi, 2010	Dr Pushpa Agrawal (PI) Dr G Vijaykumar & Dr Trilok Chandran (CoIs)	DBT	3	28.0	2010
18	Regeneration, Transformation and Elicitation studies in Capsicum	Dr Pushpa Agrawal (PI) Dr Ashwani Sharma (CoI)	VTU	2	10.3	2009
19	Biological production of clean fuels from coal	Dr Pushpa Agrawal (PI) Dr G Vijaykumar, Dr A H Manjunatha Reddy (CoIs)	CMPDI, Ranchi	3	45.36	2008
20	Biological control of red rot disease on sugarcane	Dr Pushpa Agrawal (PI) Dr AH Manjunatha Reddy (CoI)	DBT	3	10.23	2007
21	Design of ceramic membrane for separation and purification	Dr Pushpa Agrawal	BHEL	1	2.00	2006

	process techniques	(PI) Dr G Vijaykumar (CoI)				
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Students Funded projects - Completed					
Sl. No.	Title	Guide	Funding Agency	Total Cost	Year of Sanction
1	Design and development of Mini PCR	Dr Neeta ShivaKumar	KSCST	6500	2019
2	Regeneration, elicitation of Bioactive compound extracted from endangered medicinal plant <i>Mucina prureins</i> and study of its inhibition activity using biomolecular simulation studies	Dr Lingayya Hiremath, Dr Shivandappa	KSCST	7500	2017
3	Production of clean fuels from micro algae	Mr Shivandappa	KSCST	11,500	2016
4	Development of Eco friendly mosquito repellent	Dr Ashwani Sharma, Dr Nagashree N Rao	KSCST	5000	2015
5	Development of Eco friendly and Biodegradable bio composite	Dr Ashwani Sharma	KSCST	5500	2014
6	Production of Designer Foods- Yoghurt	Dr Nagashree N Rao Dr Ravindra S Kulkarni	KSCST	4000	2013
7	Generation of bioelectricity using Microbial Fuel Cells	Dr G Vijay Kumar Dr Lingayya Hiremath Dr Nagashree N Rao	KSCST	4000	2013
8	Continuous biosorption of Arsenic and Cadmium by <i>Moringa oleifera</i> in a Packed column	Dr. Pushpa Agrawal Dr M Rajeswari	KSCST	7000	2012
9	Agrobacterium tumefaciens mediated genetic transformation in <i>Arachis hypogea</i>	Dr Nagashree N Rao	KSCST	7000	2010
10	Bio resource utilization for the removal of arsenic from drinking water	Dr. Pushpa Agrawal & Dr M Rajeswari	KSCST	6000	2007