

### Faculty Research Projects of the Department (2014 onwards)

| Sl. No | Name of Investigator                         | Project title   | Funding Agency            | Duration   | Total cost (Rs in lakhs) |
|--------|--|---|---------------------------|------------|--------------------------|
| 1.     | Dr. H.S. Aparna                              | Proteoglycomic analysis of whey proteins from buffalo ( <i>Bubalus bubalis</i> ) colostrum  | UGC                       | 2011-2015  | 11                       |
| 2.     | Dr. Geetha N.                                | Rhizoremediation of Heavy Metals and Health Hazard compounds from the Agricultural Lands of Karnataka   | UGC                       | 2012-2015  | 14                       |
| 3.     | Dr. H.S. Aparna                              | Development of novel technology for disease prevention and diagnosis in East Africa and India. JSPS- Asia-Africa core-to-core project   | JSPS, Japan               | 2013-2016  | 141                      |
| 4.     | Dr. Geetha N.                                | Elicitation of induced systemic resistance in pearl millet by the activation of oxylipin signaling intermediates using biogenic nanoparticles as elicitors against downy mildew disease | DST Fast-Track            | 2013-2016  | 19                       |
| 5.     | Prof. H. S. Prakash<br>Prof. S. R. Niranjana | Sustainable Management of Millet Diseases using Botanicals  | EU                        | 2013-2016  | 300                      |
| 6.     | Prof. S. R. Niranjana                        | Advanced nano-particle based immuno detection method for detection of toxigenic fungi and their toxins"   | DST                       | 2013-2015  | 12                       |
| 7.     | Dr. H.S. Aparna                              | Structural and functional characterization of bioactive glycoconjugates from buffalo ( <i>Bubalus bubalis</i> ) colostrum   | DST                       | 2014-2018  | 38                       |
| 8.     | Dr. S. Umesha                                | Development of Diagnostic techniques for the detection of food-borne microbes/ microbial toxins and their management  | DBT                       | 2014- 2017 | 35                       |
| 9.     | Dr. S. Umesha                                | Training and Demonstration of Cultivation of Cut Flowers and Orchids for Rural Entrepreneurship in Mysore and Chitradurga Districts of Karnataka  | DBT                       | 2015-2018  | 28                       |
| 10.    | Dr. K. Ramachandra Kini                      | Molecular Studies on Floral Malformations in Pearl Millet due to Downy Mildew Infection   | UGC                       | 2015-2018  | 14                       |
| 11.    | Dr. S. Umesha                                | Seed Health testing of tomato and hot pepper for bacterial canker and speck   | East West Seeds Pvt. Ltd. | 2015-2018  | 10                       |
| 12.    | Prof. Bharathi P Salimath                    | Development of anti-angiogenic  | DST                       | 2016-2019  | 23                       |

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|-----|--|---|------------|-----------------|------|
|     | (Mentor) & Ms. Yashaswini B.                               | drug delivery system using a combination of scFv for sFlt1, TRAIL and a natural compound from <i>Tinospora cordifolia</i>                             | WOS-A      |                 |      |
| 13. | Prof. H. S. Prakash & Dr. Lakshmi M.C.                     | Innovative downstream processing techniques for the extraction and purification of bioactive compounds from medicinal plants                          | DST-WOS-A  | 2016-2019       | 33   |
| 14. | Prof. Bharathi P Salimath                                  | Interdisciplinary studies on impact of yoga on cervical and breast cancer patients and survivors  | DST-SATYAM | 2017-2020       | 50   |
| 15. | Dr. Geetha N.  | Mycogenic synthesis of nanocomposites for Chromium bioremediation   | MRP-UOM    | 2017            | 0.75 |
| 16. | Dr. S. Lokesh  | Evaluation of plant leachates as phytostimulators   | MRP-UOM    | 2017            | 0.75 |
| 17. | Prof. Bharathi P. Salimath                                 | Assessment of Government of India's Gender Mainstreaming Programs for Women in Science  | DST-NSTMIS | 2018-2020       | 21   |
| 18. | Prof. Bharathi P. Salimath                                 | UGC- Mid career award grant   | UGC        | 2018-2020       | 10   |
| 19. | Prof. Bharathi P Salimath (Mentor) & Dr. Kusum Ramachandra | Molecular insights on regulation of mesenchymal stem cell differentiation by MTA1 and Butyrate, to enhance tissue neovascularization and osteogenesis | DST-WOS-A  | 2018-2021       | 30   |
| 20. | Prof. Aparna H.S. (Mentor) & Ms. Usha BE                   | Designing of inhibitors for the Malate Synthase, a potential target for anti-tubercular chemotherapy  | DST-WOS-B  | 2020-2023       | 26   |
| 21. | Dr. S. Chandra Nayak                                       | All India Crop Research Project (AICRP)– Mysore Centre  | ICAR       | 2016- Till date | 60   |