B. V. V. Sangha's
Basaveshwar Engineering College, Bagalkote
Department of Biotechnology

RESEARCH CENTRE DETAILS

I. About Research Centre:

- Year of Establishment: **2011**
- Major Research Areas :

  1. Food processing
  2. Biofuels technology
  3. Environmental Technology and Bioremediation
  4. Industrial Biotechnology
  5. Molecular biology and Bioinformatics

- No. of research guides : **3**
- Faculty with Ph. D. : **7**
- Total number of registered candidates at the research centre :**15**
- No. of candidates awarded Ph. D. till March 2023 : **9**
- No. of candidates pursuing Ph. D. : **6**

II. Research guides at the research centre

Sl.No.	Name of the Guide	Area of Specialization
1.	Dr. Bharati S. Meti	**Plant Biotechnology**
2.	Dr. Virupakshaih D.B.M	**Biotechnology and Bioinformatics**
3.	Dr. Sharada P.	**Molecular biology**
4.	Dr. Jayachandra S. Y	**Industrial Biotechnology**

III. Research Scholars pursuing Ph. D program

Sl.No.	Name of the Student	Name of the Guide	Year of Registration	Research Topic
1.	Sushma Hallad	Dr. Bharati S Meti	**2013**	Study on the production of Ethanol from Cellulosic material by Biochemical process
2.	Asiya Rozindar	Dr. Virupakshaih D.B.M	**2016**	Production of human chymase from yeast to treat chronic disorders like Asthma
3.	Pavana kumar	Dr. Bharati S Meti	**2016**	Bio -formulations for enhanced resistance against bacterial blight of pomegranate
4.	Mahananda Math	Dr. Virupakshaih D.B.M	**2016**	Development of phage from dairy products to control pathogens - *Listeria monocytogenes*
5.	Sujata Jagadish	Dr. Virupakshaih D.B.M	**2017**	Bacteriophage therapy for food borne *Klebseilla* species.
6.	Mallikarjun Goni	Dr. Virupakshaih D.B.M	**2017**	Molecular identification and gene expression analysis of sialyltransferase levels in oral malignancy

IV. Ph. D`s awarded from Research Centre

Sl. No.	Name of the Student	Name of the Guide	Title of Thesis	Year of Degree Awarded
1.	Krishnamurt yBhat	Dr. Bharati S Meti	Design and development of a sensor for real time monitoring of transesterification progress in reaction chamber for Biodiesel production	**2018**
2.	G. B. Megeri	Dr. G.M. Madhu	Adsorption of lead and cadmium using synthesized nanometaloxides	**2019**
3.	Hemalata V.B	Dr. Virupakshaih DBM	Bacteriophage are alternative biocontrol agents to prevent thefood born Pseudomonas spp	**2019**
4.	Vikas C Gattaragi	Dr. Bharati S Meti	Evaluation of healthy human Gut isolates as potential probiotics	**2020**
5.	Premjyoti C. Patil	Dr. Bharati S Meti	Studies on biomass, lipid enhancement and molecular characterization of Chlorella spp. for Biofuel production	**2021**
6.	Madhumala Y.	Dr. Veena Soraganvi	Biofilm induced reduction of hexavalent chromium byindigenous microbes	**2021**
7.	Shilpa K. Jigajinni	Dr. Bharati S. Meti	Immobilized lipase catalysed biodiesel production from *Pongamia* seed oil	**2022**
8.	Preeti S. Kumarmath	Dr. Sharada P.	Biochemical and Pharmacological Evaluation of Bioactive Molecules in *Bryophyllum pinnatum*	**2022**
9.	Shivaleela V.B.	Dr. Sharada P.	Biochemical properties for recombinant tly - A protein *Mycobacterium tuberculosi*s	**2022**

V. Research Grants Sanctioned

Sl. No.	Title	Funding Agency	Amount	Year
1.	Cellulosic Conversion to Bioethanol from *Pongamia* Pod-ABiodiesel industry waste	TEQIP-II	20,000	2014-15
2.	Morphological, Physico-chemical and genetic variations inbiofuel tree *Pongamia pinnata* at Bagalkot District	TEQIP-II	13,000	2014-15
3.	Microbial product of statin from *Aspergillus terreus*	TEQIP-II	25,000	2014-15
4.	Effect of nitrogen on growth and lipid synthesis in *Chlorellvulgaris* for biofuel production	KSCST	13,000	2014-15
5.	Morphological physico-chemical and genetic variations in *Pongamia pinnata* seeds at Bagalkot Dist	KSCST	12,000	2014-15
6.	A Novel Approach for the synthesis of Bioplastic from poultrywaste	VGST	40,000	2015-16
7.	Simple photo bioreactor design for cultivation of algae	TEQIP-II	25,000	2015-16
8.	Production of bio-diesel from *Pongamia pinnata* by enzymaticmethods	TEQIP-II	25,000	2015-16
9.	Identification and extraction of silicon (si) from bio-dieselindustrial waste	TEQIP-II	25,000	2015-16
10.	Bio-reduction of hexavalent chromium from waste water usingbio films.	TEQIP-II	25,000	2015-16
11.	Studies on Biomass, lipid enhancement and molecular characterization of *chlorella sps*. for Biofuel production	TEQIP-II	1,34,000	2016-17
12.	Cyanide Remedition by Adsorption and Biosorption process	KSCST	7,000	2017 - 18

13.	Biochemical and Molecular Study of Glutathione Peroxidaseenzyme in *Bryophyllum pinnatum* leaves	KSCST	7,000	2017 -18
14.	Biodiesel Production from waste cooking oil usingImmobilization Lipase	KSCST	6,500	2018 -19
15.	Cyanide reduction by Bioseparation process	KSCST	6,500	2018 -19
16.	Combined effect of immobilized cells of *Pseudomonaus putida* & *Chlorella sorokiniana* as biofertilizer	KSCST	5,000	2019 -20
17.	Health and wellness from pomegranate peel	KSCST	5,500	2019 -20
18.	Novel formulation of herbal based cleaner to wash fruits and vegetables	KSCST	6,000	2020-21
19.	Conversion of acid oil to biodiesel by enzymatic transesterification process	KSCST	5,500	2022-21
20.	Biosorption of cyanide using biofilm producing bacteria	VTU	5,000	2020-21
21.	Production of beverage of butterfly pea flower	VTU	5,000	2021-22
22.	Cloning and expression of lipase asbiocatalyst for biodiesel production	KSCST	7,000	2021-22
23.	Bioenergy Research, Information & Demonstration Activity	KSBDB	2,85,000	2021-22
24.	Development of efficient biocatalyst for Biodiesel production	VGST	3,00,000	2021-22
25.	Bioenergy Research, Information & Demonstration Activity	KSBDB	1,90,000	2022-23
26.	Statistical optimization of immobilization process to enhance lipase activity for Biodiesel production	KSCST	8,000	2022-23