

Annual Report of PG Department of Biotechnology (2015-2016)

Department signed MoU with Centre for Bioscience and Nanoscience Research (CBNR), Coimbatore on 8th February 2013 for collaborative research and academic programs.

Signed MoU with Synkro Max Biotech, Chennai on 2nd November 2013.

Number of Teaching Faculties - 04 (4 with Ph.D, 2 with M. Phil. and 3 with SLET)

Total number of students – 10+ 4

Result – During 2015 - 100% (with I and II Rank in University)

11 - Research articles published by P.G. Department of Biotechnology during June 2015- May 2016.

Seminar/conferences/workshops attended and paper presented by Faculties and Students

Rama Bhat P. participated in Two-day National level Orientation Workshop on “Radiation-Applications in Physical, Chemical and Life Sciences” organized by Mangalore University and UGC-DAE Consortium for Scientific Research Kolkata Centre held at Mangalore University on 24-25 June 2015.

Rama Bhat P. and K. Jayadev participated in one day National Workshop on “Blood Irradiation and its Application in Transfusion Medicine” organized by Centre for Application of Radioisotopes and Radiation Technology (CARRT) and Mangalore Chapter of National Association for Applications of Radioisotope and Radiation in Industry, held at Mangalore University, Mangalagangothri on 17th October 2015.

Rama Bhat P participated in Four day National Workshop on “Instrumental Techniques, Maintenance and Servicing of Analytical & Laboratory Instruments” organized by St Aloysius College, Mangalore in association with Western Regional Instrumentation Centre (WRIC), Mumbai held at St Aloysius College, Mangalore on 8-11 December 2015.

Rama Bhat P., Jayadev K. and Jenitta E.P. participated in one day National Seminar on “Food nutrition and value addition” organized by Dept of Food Science and Nutrition and FND Dept., Alva’s College, Moodbidri, held at Moodbidri on 5th February 2016.

Rama Bhat P. participated and presented a paper in two day National Seminar and Workshop on “Functional Nanomaterials for Environment, Energy and Health” organized by Dept of Industrial Chemistry, Mangalore University, sponsored by purse, DST held at Mangalagangothri on 20-22 February 2016.

Deepa S Shetty, Geetha Lakshmi M.S, Sharanya Devadiga B, and E. Jenitta Emima Packiyam. Conference on National Conference on “Trends and Innovations in Marine Biotechnology” organized by Department of Biotechnology, Alva’s College, Moodbidri and KSPCB, Mangalore held on 26th February 2016.

Rama Bhat P. Jayadev L. and Jenitta E.P. participated in LAKE 2016 Pre-Conference Workshop organized by CES- IISc Bengaluru and Alva's College & Alva's Institute of Engineering and Technology held at Moodbidri during 9th -14th May 2016.

Poster Presented by

Nisha Poojari, Bhavan Bopanna and **Rama Bhat P.** National Conference on “Trends and Innovations in Marine Biotechnology” organized by Department of Biotechnology, Alva's College, Moodbidri and KSPCB, Mangalore held on 26th February 2016.

Likhith.K. and **E. Jenitta Emima Packiyam.** National Conference on “Trends and Innovations in Marine Biotechnology” organized by Department of Biotechnology, Alva's College, Moodbidri and KSPCB, Mangalore held on 26th February 2016.

Completed Research project

Title of the Project: Antimicrobial, antioxidant and wound healing properties of leaf, bark, fruit extracts and silver nanoparticles of *Samadera indica* Gaertner

Awarder: Vision Group of Science and Technology (VGST Project), DBT Karnataka

Awardee: PG Biotechnology Department

Amount: Rs. 30,000.00

Duration: 5 months (March - July 2015)

Names of students working: **Ms. Chaithaneya and Ms. Deepa P.R. (II M.Sc.)**

Guest Lectures

Dr. Shishupal, S., Professor, Davanagere University on 31.08.2015 (2 Talks)

Dr. Mamatha Ballal, Professor, Manipal University, Manipal on 15.03.2015 (2 Talks)

Mr Ganesh K, Deputy Director, Fisheries, DK and Udupi District on 23 03 2015

Seminar/Conferences

Organized One-day National Conference on “Trends and Innovations in Marine Biotechnology” in association with KSPCB, Mangalore on 26th February 2016 at Alva's College, Moodbidri.

Organized an Awareness Program on CRZ in association with KSPCB, Mangalore on 23rd March 2016 at Alva's College, Moodbidri.

Institution/Industry visit

Visited CMFRI, Cochin, Tata Tea Garden and processing centre, Munnar, Kerala 17-19 March 2016.

Research publications by P.G. of Biotechnology 2015-16

Usha P., Rama Bhat P., Prajna P.S., Shrinidhi Shetty, Jayadev K. and Jenitta E. 2015. Degradation of petroleum by microorganisms isolated from soil contaminated with petrol and its by-products. *International Journal of Emerging Engineering and Applied Biosciences (IJEEAS)* **2**(1): 66-81.

Manisha Shetty, Prateeksha Chelkar, Jenitta Emima Packiyam E, Rama Bhat. P, Jayadev K. and Shrinidhi Shetty. 2015. Production, characterisation and copper induction of fungus *Aspergillus niger*. *World Journal of Pharmacy and Pharmaceutical Sciences* **4**(6): 609-616.

Shivdas Nayak and Rama Bhat P. 2015. Biodegradation of azo dyes by *Halobacillus* sp. *IJEEAS* **2**(1): 24-39.

Manisha Shetty, Prateeksha Chelkar, Jenitta Emima Packiyam E, Rama Bhat P, Jayadev K. 2015. Production, optimization, characterization and partial purification of L-asparaginase from *Aspergillus niger*. *IJEEAS* **2**(1): 40-50.

Shukla Das, Rama Bhat P. and Jayadev K. 2015. Studies on the effect of vermiwash on the growth of *Pisum sativum* L. and *Cicer arietinum* L. *International Journal of Interdisciplinary and Multidisciplinary and Studies (IJIMS)* **2** (10): 31-37. IF 1.95

Joslin D., Gowthami R., Jenitta Emima Packiyam E., Rama Bhat P., Jayadev K. and Shrinidhi Shetty. 2015. Extraction, purification, characterization and metal ion concentration of papain from *Carica papaya* L. *World Journal of Pharmacological Research* **4** (10): 2948-2954. IF 5.95

Gowthami R., Joslin D., Jenitta Emima Packiyam E., Rama Bhat P., Jayadev K. and Shrinidhi Shetty. 2016. Synthesis of gold nanoparticles using the fruit extracts of *Carica papaya* L. and evaluation of its biological activities. *International Journal of Science and Knowledge (IJSK)* **5** (1): 3-8.

Deepa PR, Chaithaneya and Rama Bhat P. 2015. Phytochemical properties and antimicrobial activities activities of leaf, bark, fruit extracts and silver nanoparticles of *Samadera indica* Gaertner *European Journal of Biotechnology and Bioscience* **3** (12): 30-37. IF 4.72

Rama Bhat P., Savitri V. H., Laxmi P.G. and Jenitta EP. 2016. A study on the phytochemical analysis, silver nanoparticle synthesis and antibacterial activity from seed extract of *Areca catechu* L. *International Journal of Biochemistry Research & Review* **9** (1): 1-9.

- Prajna P.S., Rama Bhat P. and Sunil Kumar K. N. 2016. Identification of bioactive compounds in *Loeseneriella arnottiana* Wight root by GC-MS analysis. *World Journal of Pharmaceutical Research* 5 (4): 1559-1569. 6.3
- C. Bindu, P. Rama Bhat, B. C Girish and Krishna Prasad, 2016. Inhibition of cholesterol and triglycerides synthesis by *Costus speciosus* (Koen. ex Retz.) Smith plant extract. *International Journal of Research – Granthaalayah* 4(3): 92-98. IF 2.035
- C. Bindu, P. Rama Bhat, B. C Girish and Krishna Prasad, 2016. Relative potency of antidiabetic effect of *Costus speciosus* (Koen. ex Retz.) Smith plant extract in mouse fibroblast cell line. *International Journal of Research – Granthaalayah* 4(3): 99-106. IF 2.035
- Sharanya Devadiga B, Deepa Shetty, Geetha Lakshmi M.S,2016. Jenitta Emima Packiyam, Rama Bhat P. Synthesis of Chitosan Silver nanoparticles from Chitin of Crustacean shells and Its Applications. *International Journal of Current Research in Chemistry and Pharmaceutical Sciences* 3(5): 1-5.

One-Day National conference on “TRENDS AND INNOVATIONS IN MARINE BIOTECHNOLOGY” organized by Department of Biotechnology, Alva’s College, Moodbidri, in association with Karnataka Pollution Control Board, Mangaluru held on 26/02/2016



Inauguration of One day national conference by Dr. N. Ramaiah ,Chief Scientist, CSIR-National Institute of Oceanography, Dona Paula, Goa.



Inaugural address of One day national conference by Dr. N. Ramaiah ,Chief Scientist, CSIR-National Institute of Oceanography, Dona Paula, Goa.



Release of souvenir (CD) in One day national conference by Dr. N. Ramaiah ,Chief Scientist, CSIR-National Institute of Oceanography, Dona Paula, Goa.



Awareness programme on Coastal Regulatory Zone, by Mr. Ganesh K. Managing Director Fisheries Cooperative Marketing Federation Limited, Bolar, Mangalore & Deputy Director, Fisheries, DK District organized by Post Graduate Department of Biotechnology, Alva's College in Association with Karnataka Pollution Control Board, Mangaluru held on 23.03.2016