YENEPOYA

(DEEMED TO BE UNIVERSITY)
Recognized under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

3.2.2 Grants for research projects/clinical research project sponsored by the government funding agencies during the last five years.

Any Other Related Document

Sl. No.	Particulars	Document	Page Number
1.	Research work carried out on paper analytical device (Design and fabrication of dual mode paper-analytical-device for point of care diagnostics, Project No.: BT/PR21309/MED/32/ 557/2016) by Dr. K. Sudhakaraprasad is highlighted in Department of Biotechnology (DBT) Annual Report 2018-2019.	Screen shots	02
2.	Research work carried out on gene sequencing of *Halomonas malpeensis* (Development of a wound healing material from the biopolymers produced by two novel bacterial strains isolated from west coast of India. Project No.: BT/PR15730/AAQ/ 3/791/2016) by Dr. Rekha P.D. is highlighted at Department of Biotechnology (DBT) Annual Report 2019-2020.	Screen shots	03
3.	Project (To evaluate the role of xenoestrogens in antibody receptor diversity and translocation: phytoestrogens and other endocrine disrupting compounds in modulating genomic stability, auto-immune diseases and cancers, Project No.:YSS/2015/000987) outcome by Dr. Divya Lakshmanan M has been rated as "Very Good" by DST subject experts	Screen shots	04

ATTESTED

Dr.Gangadhara Somayaji
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Screen shot of Department of Biotechnology (DBT) Annual Report 2018-2019

PI: Dr. Sudhakaraprasad

Researchers successfully developed the dual mode paper analytical device (PAD), through simple photolithography with an easy way to incorporate the three electrode system without employing sophisticated screen-printing machine. The fabricated dual PAD could be used to develop a point-of-care testing platform coupled with a palm device for community based screening and diagnosis.

Fabricated dual PAD with electrochemical and colorimetric detection zones

Fabricated dual PAD flow test with color dyes

biosensors for water treatment system. In another study researchers from Lovely Professional University in collaboration with McGill University, Canada are looking into the possibility of exploiting biochar filters as an innovative green technology for treating municipal and industrial wastewater entering rivers and streams.

(b) An easy to use ARTSENS® Pen device that can measure the stiffness of the blood vessels was developed by investigators at IIT-Madras in collaboration with University of Turku, Finland. The accuracy of the device was validated in a clinical study on more than 500 subjects, and its field feasibility was verified more than 1000 rural subjects.

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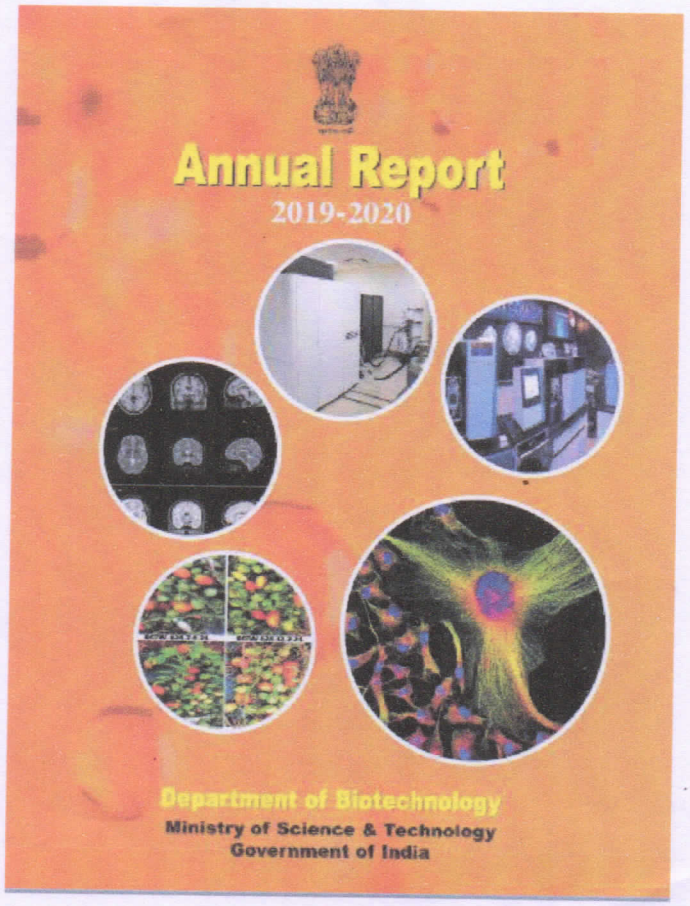
Screen Shot of Department of Biotechnology (DBT) Annual Report 2019-2020



PI: Dr. Rekha P.D.

The complete genome sequencing and de novo assembly of *Halomonas malpeensis* PRIM 29T, a novel marine bacteria isolated from west coast of India, was carried out at Yenepoya University, Mangalore. Gene annotation studies confirmed the presence of genes involved in ABC transporter dependent pathway of EPS biosynthesis. *H. malpeensis* possesses genes for the synthesis of phytoene, lycopene, â-carotene and zeaxanthin involved in the carotenoid biosynthesis pathway. The bacterial genome also showed the presence of genes coding for other industrially important metabolites such as ectoine and betalins.

Fish Feed:

Various diet forms for larval rearing of giant fresh water prawn, *Macrobrachium rosenbergii* were evaluated to develop alternate nutritious and cheap larval feed. Ribbonfish powder at 25-30 % or Pink perch fish powder at 30-35% as major feed ingredient was found to have a direct bearing on larval rearing of giant freshwater prawn, there by bringing down the total feed cost. The optimum inclusion of these ingredients accelerates the optimum larval metamorphosis by reducing larval rearing time.

strong antiviral activity against WSSV. The pure herbal immunostimulant isolated and found to have activity at the concentration ranging from 10 to 25 µg per shrimp. Field evaluation of HIM formulated feed has been carried out in shrimp ponds located at Mungamur, Nellore, AP to protect the shrimp from WSSV infection and encouraging results have been obtained.

Diagnostics and Therapeutics: A simple method to isolate broad host range coliphages using multiple host enrichment has been developed. The protocol was optimized using 24 strains of antimicrobial resistant *E. coli* and a universal host *E. coli* 2089. Phages produced by multiple host enrichment showed lytic activity against higher number of *E. coli* isolates and found to be more efficient.

A highly sensitive, cost effective and specific loop-mediated isothermal amplification (LAMP) assay has been developed for diagnosis of Vibrio pathogens by targeting its tlh, tdh and trh genes. Additionally, a hydroxynapthol blue (HNB) dye based simple visual detection for the amplified LAMP products was also standardized. LAMP assay with HNB dye has also been

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Screen Shot of Project completion Rating after evaluation DST-SERB Project (PI: Dr. Divya Lakshmanan M)

1 The Electronic Project Proposal Management System, For SERB

Closer acknowledgment to the Convener / PI

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Science and Engineering Research Board
5 & 5A, Lower Ground Floor
Vasant Square Mall
Sector-B, Pocket-5
Vasant Kunj
New Delhi - 110 070

File Number: YSS/2015/000987

Dated: 26-Nov-2019

Subject: Project titled " **To Evaluate the Role of Xenoestrogens in Antibody Receptor diversity and Translocation: Phytoestrogens and other Endocrine disrupting compounds in modulating Genomic Stability, Auto-Immune Diseases and Cancers** "
Dear Dr. Divya Lakshmanan.M

The SERB has received the required financial documents and Closure Report and the same have been accepted. Hence, this file is closed officially. This is for your kind information.

Project Completion Report submitted by you is also evaluated by subject expert and rated "VERY GOOD".

Yours sincerely,

(Dr. Pramod Kumar Prasad)
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Dr. Divya Lakshmanan.M
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