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Certificate

3.3.1 Institution has created an ecosystem for innovations and entrepreneurship with an Incubation centre, entrepreneurship cell

The data furnished by the Yenepoya (Deemed to be University) pertaining to Geo-tagged photographs of the facilities and innovation made have been verified.

Signature of the Registrar

Registrar
Yenepoya (Deemed to be University)
University Road, Deralakatte
Mangalore - 575 018

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3.3.1 Institution has created an ecosystem for innovations and entrepreneurship with an Incubation centre, entrepreneurship cell

Geo-tagged Photographs of the Facilities and Innovations made

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Contents

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Schematic overview of facilities at Yenepoya Technology Incubator

https://www.yenepoya.edu.in/university-facility/technology-incubator

Entrance Area

Geo-tagged Photos/3.3.1/YDU

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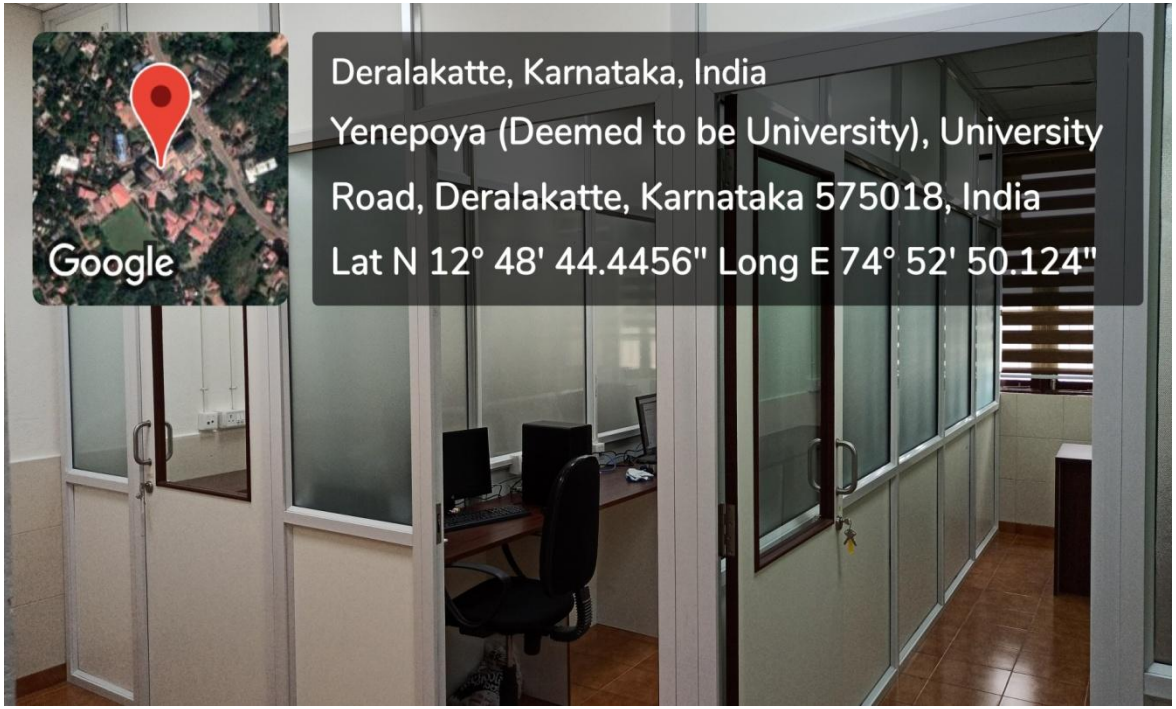
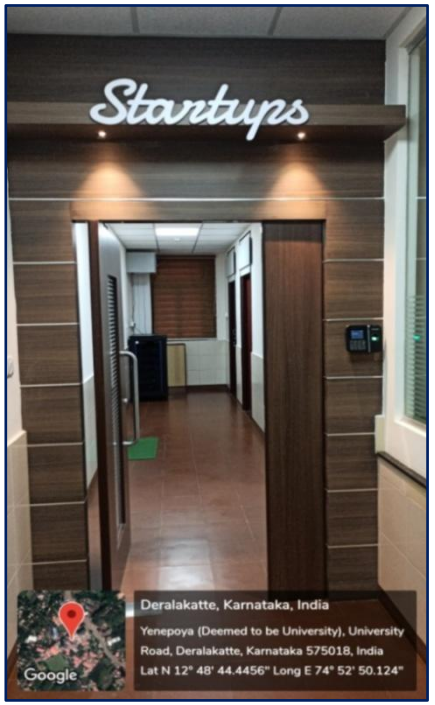
Working Space for Start- ups





Incubation space for In-house start-ups which are intensively mentored to transform their innovative ideas into scalable technologies.

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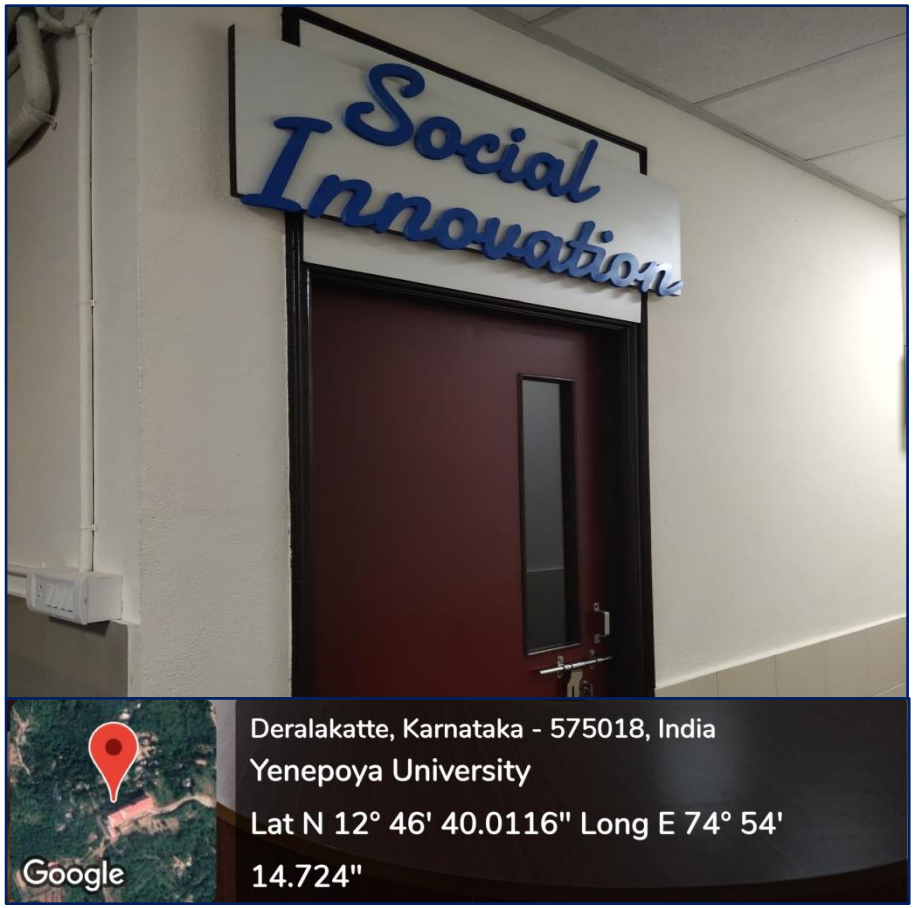
Co-working Area for Innovators

- Shared working space to provide individuals a productive and collaborative environment.
- Coworking area is designed to develop new ideas, Boost creativity, Expand network and
- Foster synergies between entrepreneurs.
- Entrepreneurs and Innovators can avail these facility at the incubator at affordable membership fees.

Office Space for Social Innovation Fellows



- Social Innovation Immersion Program (SPARSH) is funded under BIRAC
- It aims at identifying gaps in communities and helping bridge the gap through innovative solutions either as a product or service.
- The Program spans for the period of 18 months starting from pre-immersion boot camp to product design and prototyping.
- There are 5 SPARSH fellows at present, working on the theme Maternal and Child Health.

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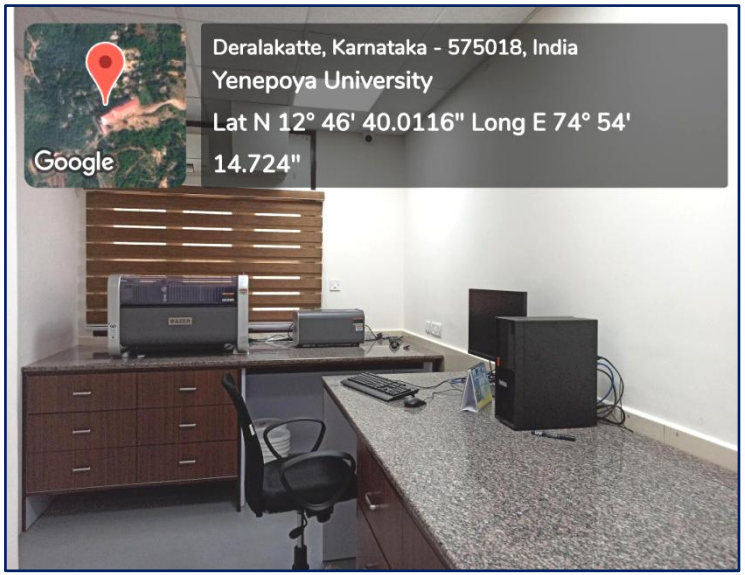
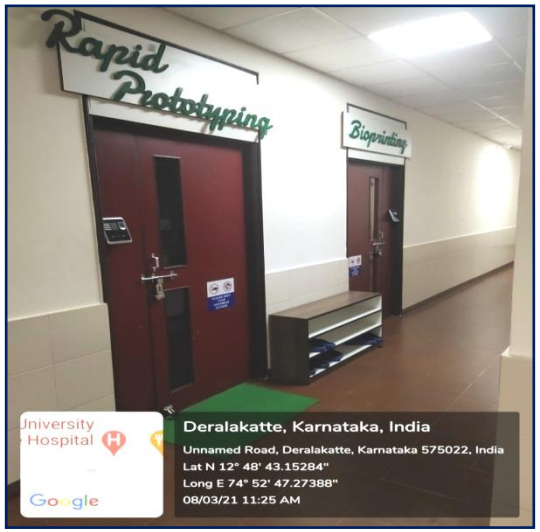
Rapid Prototyping Facility: Fab-Lab





- Rapid Prototyping enables quick fabrication of physical models using 3-dimensional (3D) Computer Aided Design data.
- Fablab is equipped with machines for additive and subtractive manufacturing including 3D printers like FDM, SLA, DLM, 5 Axis CNC Machining, Waterjet cutter and Metal sheet cutters
- The Prototyping Technologies can also be used for designing specifically individualized products and medical devices.

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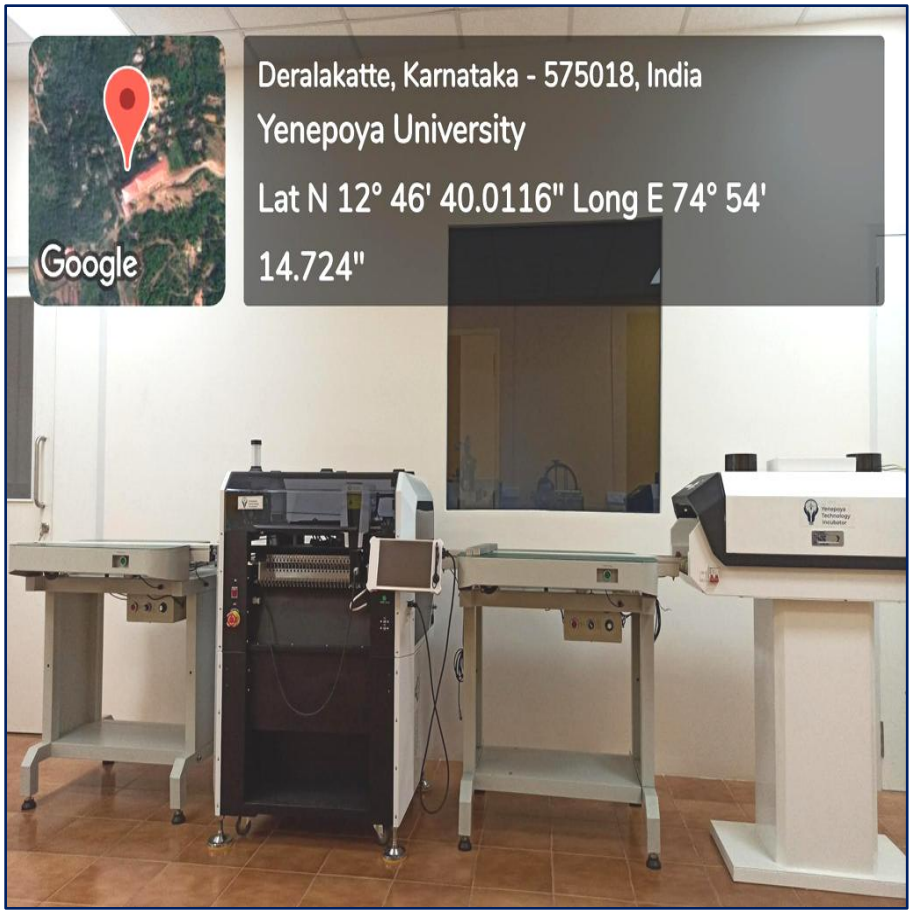
Electronics Manufacturing Lab

- Electronics Manufacturing Lab for electronics product development includes;
  - PCB layout
  - PCB Fabrication
  - PCB Stencils
  - Component Sourcing
  - PCB Assembly along with casing solutions and thermal solution
- 3D design and printing
- Prototyping to mass production and guidance for DFM (design for Manufacturing)

Electronics Manufacturing Lab



Facilities include;

- Advanced Electronics test,
- Measure and reworking equipments;
  - Spectrum analyser
  - Oscilloscope
  - LCR meter
  - Digital power supplies etc.
- Other general purpose equipments for R&D purposes to develop electronic devices.

3D Printers - FDM, SLA, & DLP – Additive Manufacturing

3D Printer – SLS – Additive Manufacturing

Boardroom

Boardroom is part of all conference meetings, internal meetings, programs, team discussions, business presentations, project proposals etc.

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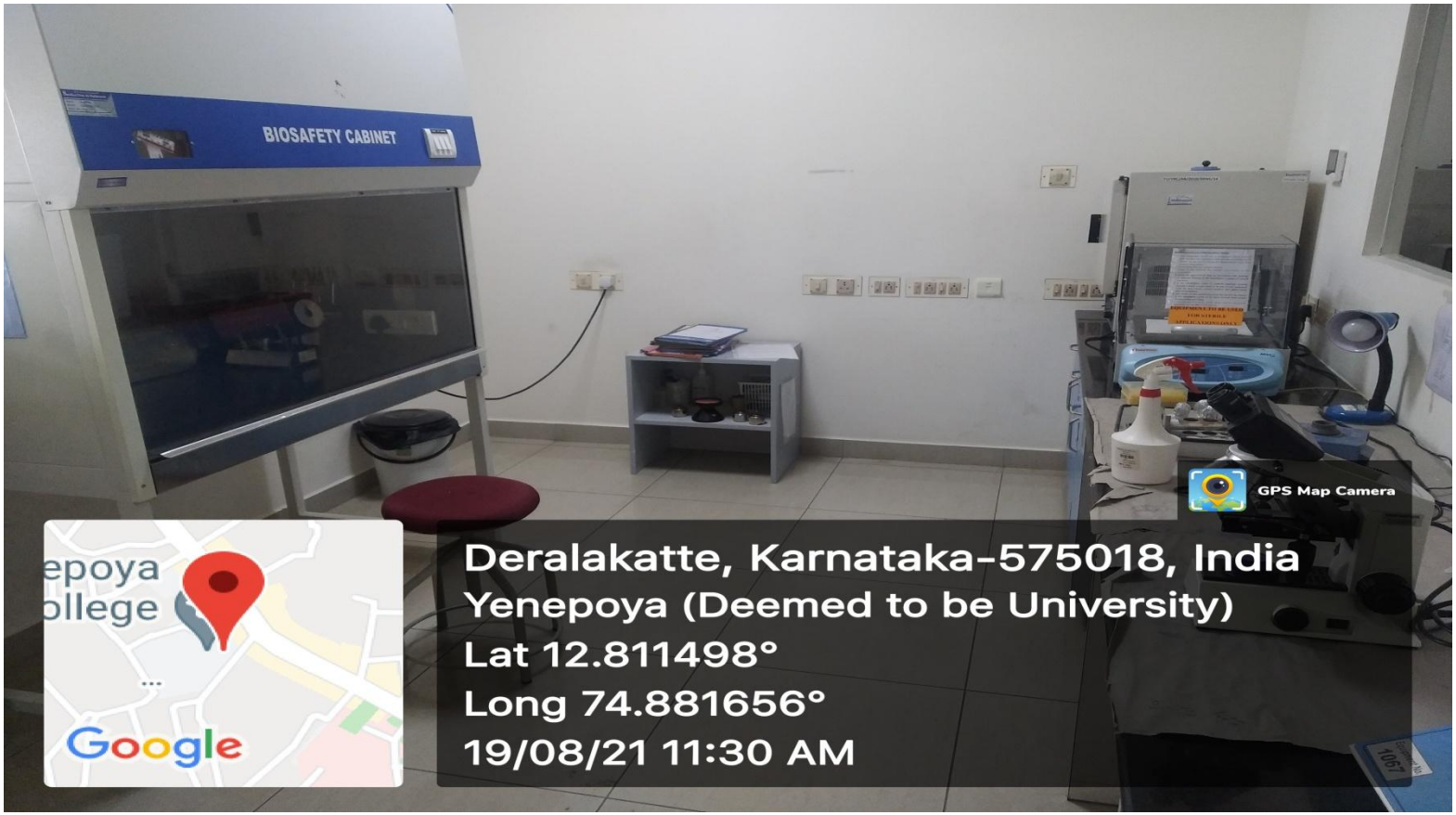
Research and Development Facilities
Microbiological Lab



Lab employs molecular and conventional procedures for the development of infectious disease detection and control of biofilm, newer anti-microbial development through combinatorial approaches. Used for sterility testing and drug development

Synthesis Lab

•This Lab includes-

- Bench top fume hood,
- Digital Rotatory Evaporator,
- Lyofreezer,
- UV- Crosslinker etc.

•Many biological products were developed at this lab of chemical synthesis with fundamental biological ingredients

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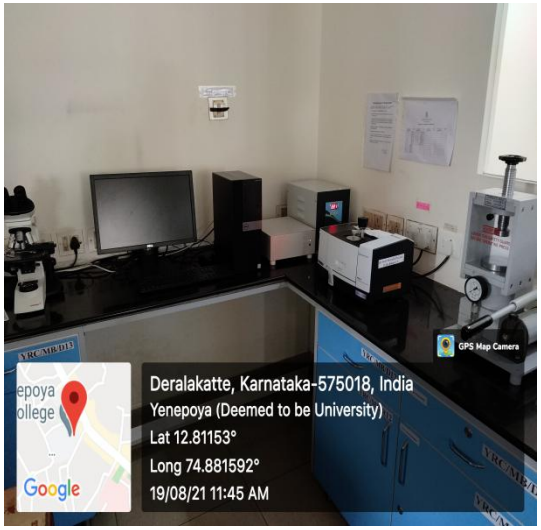
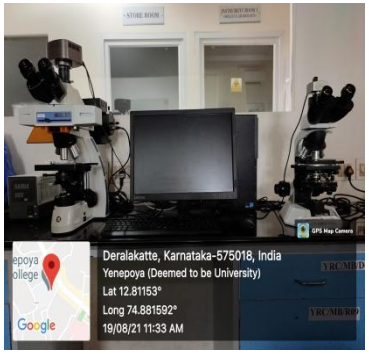
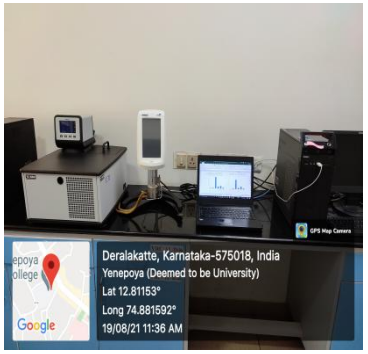
Material Characterization Facility







Facilities include

- FTIR,
- Fluorescence Spectrophotometer,
- Rheometer,
- UV- Spectrophotometry,
- GC Chromatography,
- Multi-mode plate readers.
- Other general purpose equipments for R&D purposes

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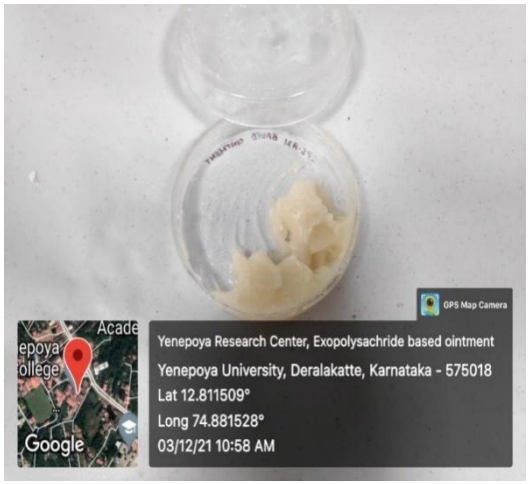
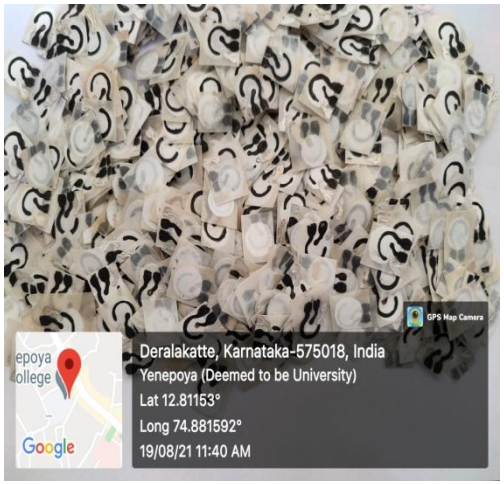
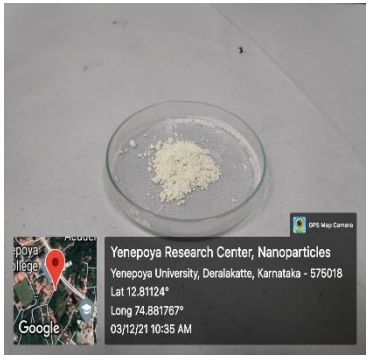
Innovations

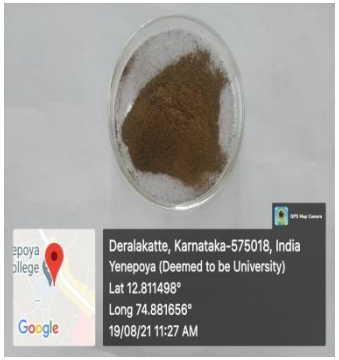




Exopolysaccharide based formulation for healing of excision & burn wounds

Paper Electrodes: Dual mode paper-analytical-device, Point of care diagnostics, Biosensor, Immunosensor





Nanoparticles synthesized with drugs for small cell lung cancer (2 & 3) Bone Grafting Materials from Natural Sources.

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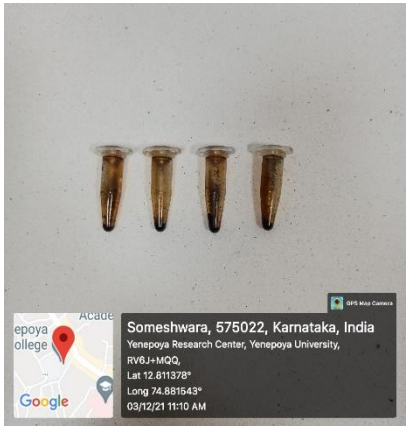
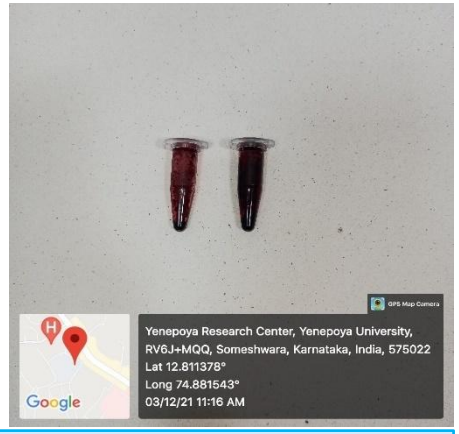
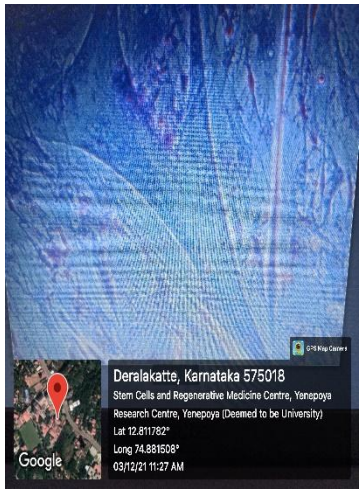
Innovations





Plant extracts from nutmeg and banana flower having anti-cancer activities against lung, breast and colon



CD44 cell surface marker, differentiated pancreatic islets and muscle cells to identify and treat cancer stem cells, diabetes and muscle damage

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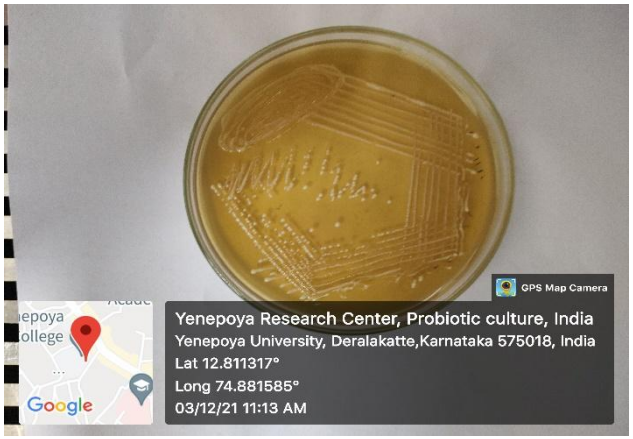
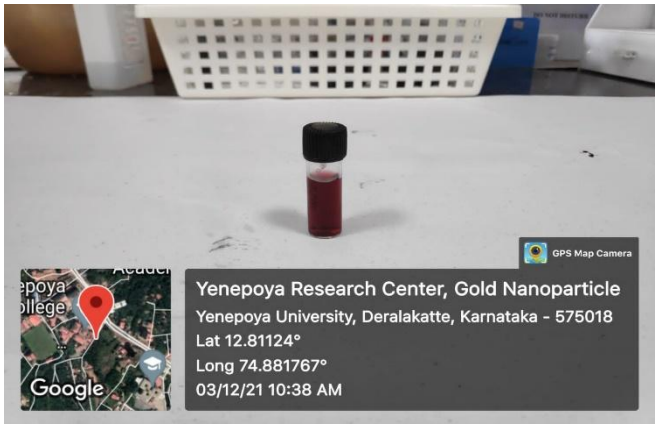
Innovations

Identification of diagnostic and prognostic markers from the serum sample by using mass spectrometry





Pro-biotic infection to find the anti-cancerous role and polymer coated nanoparticle for sensor applications