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

YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University)

University Road, Deralakatte, Mangalore-575018

JULY 2022

RANKINGS OF
YENEPOYA (DEEMED TO BE UNIVERSITY)

CONTENTS

1. Preamble

Yenepoya Research Centre (YRC) was established in 2008 with the objective of building a vibrant research culture and promoting vigorous research activities among the faculty and students of the constituent colleges. Subsequently, YRC was upgraded as a multidisciplinary research facility and started attracting passionate researchers contributing to research and development in the form of several breakthrough publications and patents.

Since its inception, YRC has established state-of-the-art facilities to support high-quality research in interdisciplinary areas of health and life sciences to address contemporary challenges. The recognitions by DSIR, SIRO and LSSSDC boost the research and training activities. To maintain standards, the centre is certified with ISO17025:2017 and GLP compliance. All the research activities are governed by the University and National guidelines and regulations.

The centre extends consultancy services, collaborations and outreach activities to address the local and global scientific demands. Regular activities are taken up by the centre to motivate young research enthusiasts at the middle/ high school, UG and PG levels to provide training and mentorship support. The centre has supported in standardizing molecular diagnostic services during COVID-19 pandemic and provides expertise to the central lab for conducting complement dependent cytotoxicity cross-match, a prerequisite for organ transplantation.

The staff and students represent all parts of India and both genders adequately. The PhD scholars are financially supported by different national fellowships or through institutional JRF schemes. Alumni are placed in institutions/organizations of national and international repute such as the Weizmann Institute of Science, Israel, University of Texas, USA, University of California, USA, to name a few; or have ventured into entrepreneurship with their own start-ups.

The active collaboration and networking with national and international centres of eminence, along with the in-house research schemes, has resulted in excellent research output and visibility. Apart from the intramural grants provided to support research, the centre has attracted a significant number of extramural research grants from national and international agencies.

The research at YRC is aligned with the sustainable developmental goals (SDG), contributing to the worldwide visibility of the university in global impact rankings. To promote translational research and innovation, YRC took a proactive role in establishing the technology incubator on the campus.

2. Vision, Mission & Objectives

Vision

Generate new knowledge towards national development through quality research integrated with highest ethical standards.

Mission

- Engage in high-quality research integrating both basic and translational research across multiple disciplines, driving towards therapeutics of human health.
- Popularize research in emerging areas.
- Cultivate critical thinking that can spark creativity and innovation among students and young researchers to make them leaders in the field of science and technology.

Objectives

- Establish state-of-the-art infrastructure for multi disciplinary research encouraging technology development and translation.
- Build a team to drive research in emerging areas of science and technology.
- Provide research support, advocate critical thinking and catalyze innovations and entrepreneurship among researchers and students.
- Maintain the standards of laboratory operation subject to external quality audits to international standards.
- Provide unique, stimulating, and vibrant research ecosystem to address the societal needs and challenges.

3. Team

Faculty Members

Dr Rekha PD
Professor and Director
2009 to Present

Dr Arun AB
Professor
2009 to Present

Dr Keshava Prasad
Professor
2014 to Present

Dr Prof V Adhikari
Ad Professor
2019 to Present

Dr Bipasha Bose
Associate Professor
2014 to Present

Dr Sudheer Shenoy
Associate Professor
2014 to Present

Dr Yashodhar Bhandary
Associate Professor
2014 to Present

Dr RC Koumar
Associate Professor
2018 to Present

Dr Sudhakaraprasad
Associate Professor
2015 to Present

Dr Ashwini Prabhu
Assistant Professor
2015 to Present

Dr Arnab Datta
Assistant Professor
2019 to Present

Dr Jayachandran Venkatesan
Assistant Professor
2017 to Present

Dr Shankar Prasad Das
Assistant Professor
2017 to Present

Dr Suparna Laha
Assistant Professor
2015 to Present

Dr Prasanth K Modi
Assistant Professor
2016 to Present

Dr Renjith Johnson
Assistant Professor
2016 to Present

Dr Divya Lakshmanan M
Assistant Professor
2016 to Present

Dr Raghu Bhushan
Assistant Professor
2017 to Present

Dr Rajesh P Shastry
Assistant Professor
2018 to Present

Dr Ranajith Das
Assistant Professor
2019 to Present

Dr Shobha D
Assistant Professor
2019 to Present

Dr Bhagya N
Assistant Professor
2019 to Present

Dr Sebanti Gupta
Assistant Professor
2019 to Present

Dr Shyam Prasad Rao
Assistant Professor
2014 to 2022

Faculty Members

Dr Rajesh Raju
Assistant Professor
2020 to Present

Dr Bhagwan Rekadwad
Assistant Professor
2020 to Present

Dr Asif Hameed
Assistant Professor
2022 to Present

Dr Abhinand C S
Assistant Professor
2022 to Present

Dr Pratigya Subba
Assistant Professor
2015 to 2021

Dr Kishore Kumar Keekan
Assistant Professor
2014 to 2020

Dr Sneha Pinto
Assistant Professor
2015 to 2018

Dr Yashwanth Subbannayya
Assistant Professor
2015 to 2018

Adjunct Faculty

Dr B S Rao
Former Head, BARC
Mumbai, India

Dr Aravind Madhyastha
Associate Professor
ATREE

Dr Vijayakumar Boggaram
Professor
University of Texas, USA

Dr Harsha Gowda
Associate Professor
QIMR, Australia

Dr Salem Chouaib
Director, TRIPM, UAE

Technical & Support Staff

Ms Aparna Hegde
Clinical Research Coordinator

Mr Arun S T
Research Associate

Ms Sajida
Technical Assistant

Ms Nikitha
Technical Assistant

Ms Shwetha
Secondary Division Assistant

Ms Deeksha
Secondary Division Assistant

Mr Vijay Kumar
Office Assistant

Ms Savitha
Office Assistant

Professor	04
Associate Professor	05
Assistant Professor	20
Visiting/Adjunct Faculty	05
PDF/ RA	05
JRF/SRF	76
Supporting/Technical staff	08

4. Infrastructure & Facilities

To support advanced research in the emerging areas, YRC has established state-of-the-art infrastructure and facilities. These include facility for analytical research, *in vitro* studies, advanced mass spectrometry, stem cell research labs, microbiology, molecular biology, material research, and biotechnology research labs.

To maintain standards, the facilities and their operations have been certified with GLP and ISO 17025:2017 compliance.

For the smooth functioning of the facility, several SOPs are adopted, and all the users of the facility are trained in these SOPs.

The facilities are also registered on the i-STEM portal of the Government of India.

4.1. Advanced Mass Spectrometry Facility

The advanced mass spectrometry facility was established as an outcome of collaboration with Institute of Bioinformatics provides a platform for proteomic and metabolomic studies. The major equipments include Orbitrap Fusion Tribrid mass spectrometer and QTRAP 6500 mass spectrometer along with other equipments for the proteomic and metabolomics. The facility is used not only by inhouse researchers but also caters to other national and international institutions including industry.

Orbitrap Fusion Tribrid Mass Spectrometer

HPLC DAD System

SCIEX QTRAP 6500 Mass Spectrometer

Sample Processing Facility

4.2. Cell & Molecular Biology Facility

The facility has equipment to support molecular studies, recombinent DNA technology, protein purification, and a range of cell-based assays. The major equipment includes PCR, RT-PCR, Western blotting ste-up, electrophoresis set-ups, and protein purification systems, among others.

4.3. Microbiology Laboratory Facility

Facilities for microbiology research include biosafety cabinets, incubators, centrifuges, microscopes, freezers and deep freezers, autoclaves, plate readers, and other supporting instruments for the range of assays. Several consultancy and collaborative research studies are taken up using this facility. Services to industry for quality control related tests are also provided. The post-graduate students extensively use the facilities for their dissertation studies. Some of the equipment is procured under extramural grant support.

Biosafety Cabinet

Static Incubator

Shaking Incubators

4.4. Stem Cell Culture Facility

This facility houses state of the art infrastructure for cell-based investigations. Some of the major instrumentation includes, Class II biosafety cabinets, Fluorescence imager, Inverted phase contrast microscopes, CO_2 and hypoxic incubators, multimode readers, analytical flow cytometer and high-end cell sorter. The facility offers consultancy services and also several collaborative initiatives have been taken up. Cell sorting platform supports diagnostic needs of the university for stem cell sorting.

4.5. Histopathology & Biochemical Analysers

The facility hosts a range of instruments for supporting the analysis of clinical and preclinical tissue samples and body fluids. The equipments are supported by the funding from DAE/BRNS.

4.6. Polymer Synthesis Facility

The polymer synthesis and characterization facility is equipped with a Schlenk line, rotary evaporators, lyophilizer, rheometer, and other analytical equipment.


Schlenk Line Material Synthesis

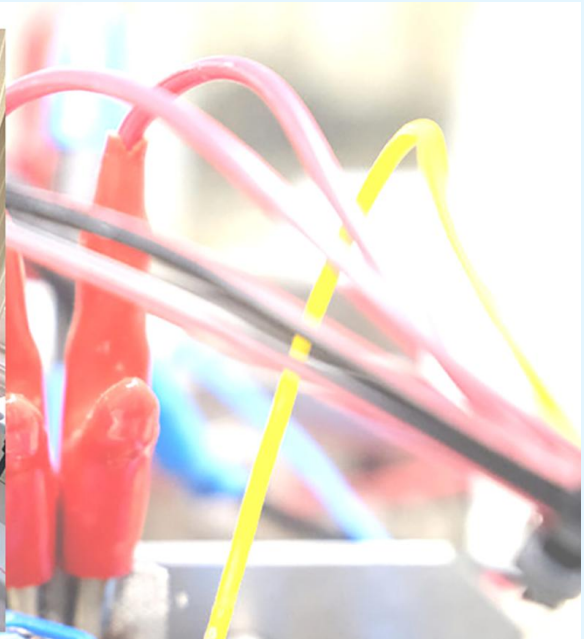

Rheometer

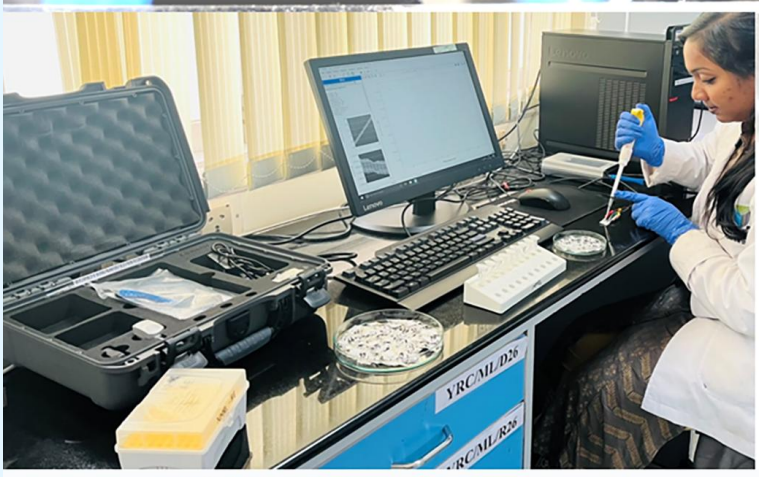

Synthesis & Processing Facility


Rotary Vacuum Evaporator

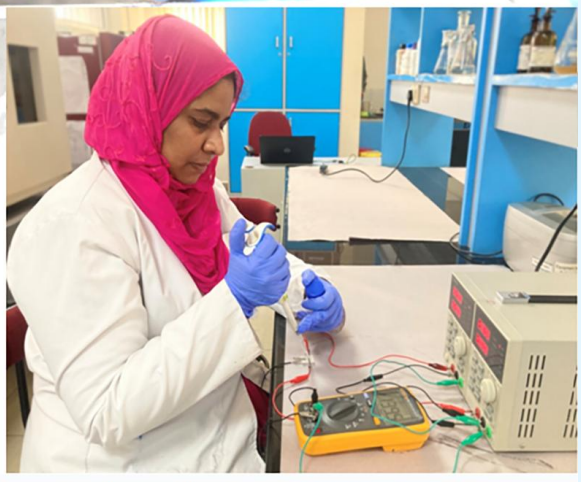
4.7. Electrochemical Facility

The electrochemical facility is equipped with an electrochemical workstation and other accessories for the development of biosensors and point-of-care devices.





Working with Point of Care Devices



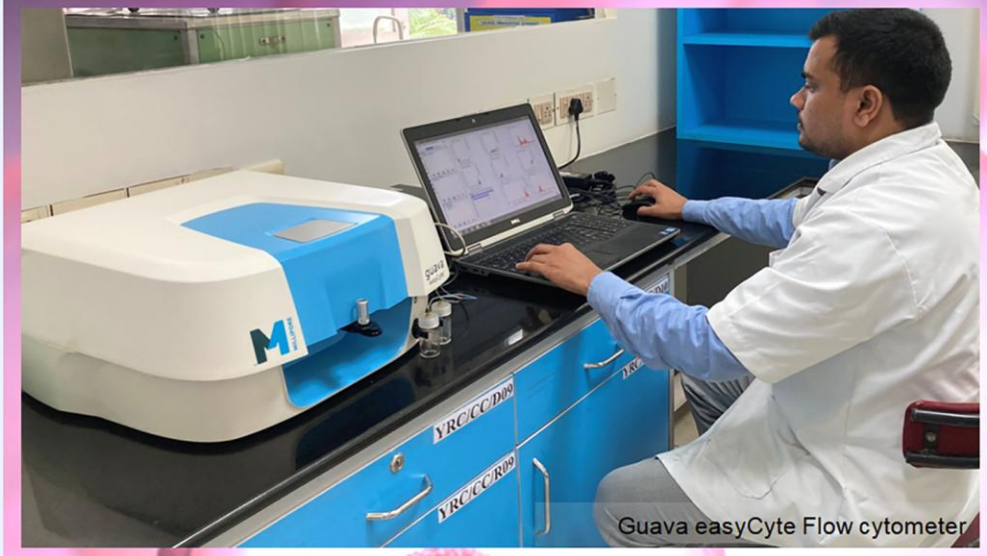
Analyzing the Paper FET Performances

4.8. Analytical Facility

The facilities for analytical experiments include UV-visible spectrophotometer, FT-IR spectrometer, gas chromatograph, multimode plate readers, pH meter, fluorescence spectrometer, furnace, ultra sonicator, water baths, weighing balance, etc.

4.9. Flow Cytometry & FACS Facility

The facility is supported by a Merck-Millipore Guava easyCyte flow cytometer and a BioRad S3e Fluorescence Activated Cell Sorting (FACS) machine. The cell sorting platform is extensively used for stem cell sorting and profiling.



Guava easyCyte Flow cytometer

BioRad S3E Cell Sorter Facility-FACS

4.10. Microscopy & Imaging

The microscopy and imaging facility is equipped with inverted, binocular, phase contrast, and dissection microscopes along with fluorescence microscopes and imagers.

For fluorescent imaging, a fluorescence imager (Zoe, BioRad), a fluorescence microscope (OX-3085, Euromex) and a digital fluorescence microscope (EVOS M5000, Thermo Fisher Scientific) are used.

4.11. Deep Freezing & Cryo-Storage Facility

To store the reagents, samples/specimens, tissues, and cell lines, a cold storage facility is available that provides a controlled temperature environment designed for storage at 4 ^{o}C,-20 ^{o}C, -80 ^{o}C and liquid nitrogen (-196 ^{o}C). The cold storage facility houses a dedicated cryostorage set-up including three LN2 tanks with space for 96 cryoboxes, housing more than 100 cell lines of primary and secondary origin. The tanks are also equipped with alarm systems to indicate the LN_2 levels. These are also used by clinical researchers to store specimens and samples.

4.12. Animal Facility

The animal facility caters to the needs of the researchers, who are conducting preclinical studies with animal models. The facility is registered (Reg No:347/PO/ReBi-S/Rc-L/01/CPCSEA) with CPCSEA, Ministry of Environment and Forests, Government of India, New Delhi. All pursuits with laboratory animal breeding and experiments are performed as per CPCSEA and IAEC guidelines.

4.13. Thoron Research Lab

The Atomic Energy Regulatory Board (AERB) approved TYPE 1 radioactive laboratory of YRC has a controlled Thoron gas inhalation chamber to conduct radioactive research. The facility is monitored by a Geiger-Muller counter to assess the possibility of any radiation leakage. The radiation monitoring within the thoron chamber is done with a radon-thoron dual monitoring system. The facility was established with the support of a DAE/BRNS Research grant.

Thoron Facility Set-Up with Collaborators from BARC (Dr Nagesh Bhat, Scientific Officer, BARC/AERB Member and Dr B.S. Rao, Retd. Scientific Officer, BARC)

Controlled Thoron Gas Inhalation Chamber with Radiation Monitoring Device in Real-Time Animal Experiments.

5. Thrust Areas & Research Highlights

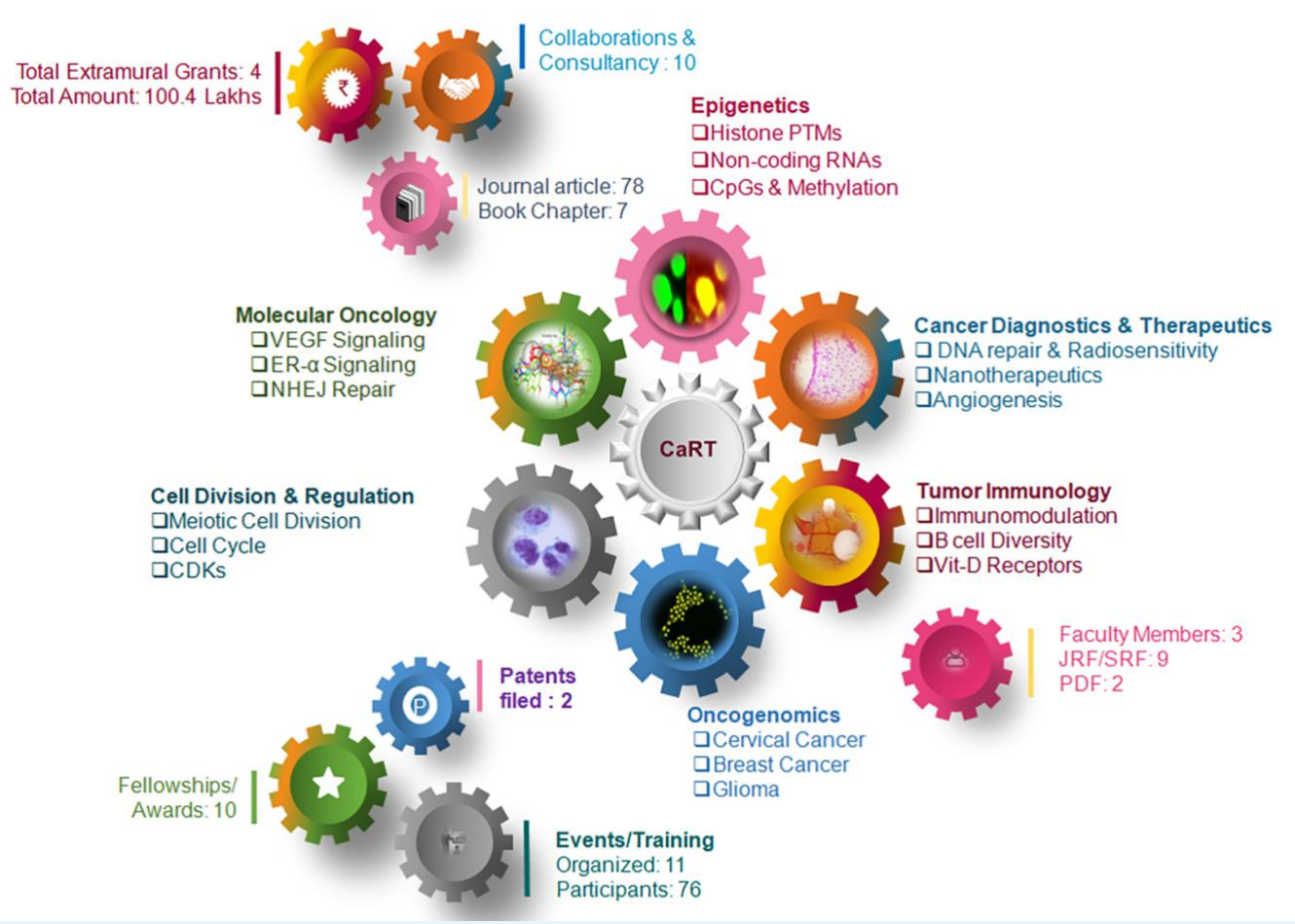
The thrust areas of research are identified to address the emerging challenges of national and international importance and to serve the local needs. The thrust areas are in alignment with the sustainable development goals and vision of the university. The thrust areas of research are grouped under major disciplines.

- Cancer Research & Therapeutics
- Stem cells & Regenerative Medicine
- Systems Biology & Molecular Medicine
- Division of Microbiology & Biotechnology
- Cell Biology & Molecular Genetics
- Smart Materials & Devices
- Division of Neuroscience
- Data Analytics, Bioinformatics & Structural Biology

5.1. Cancer Research & Therapeutics

Cancer is one of the leading causes of death grouped under non-communicable diseases, and the incidence of cancer increases every year with high mortality rates. This group comprises a team of highly motivated researchers working towards a common goal of understanding the molecular events in cancer initiation and progression, and the development of cancer therapeutics and diagnostics.

Some of the key areas under this research group are Molecular Oncology, Cancer Diagnostics and Therapeutics, Tumor Immunology, Cell Division and Epigenetics, and Oncogenomics. Studies include double-stranded DNA repair pathways and radiosentizers, nanotherapeutics and angiogenesis inhibitors, immunomodulators and cell cycle regulators.



5.2. Data Analytics, Bioinformatics, & Structural Biology

The main research focus is to analyse and interpret biological data employing statistical and bioinformatic tools and integrate the same in a meaningful and innovative way to understand the biological system as a whole. Researchers curate and organize vast realms of biological data in an effective, and logical manner by developing statistical and/or bioinformatic tools and algorithms, utilizing/repurposing existing computational tools, and to train machines to learn, curate, analyse and interpret biological data in a logical and meaningful manner.

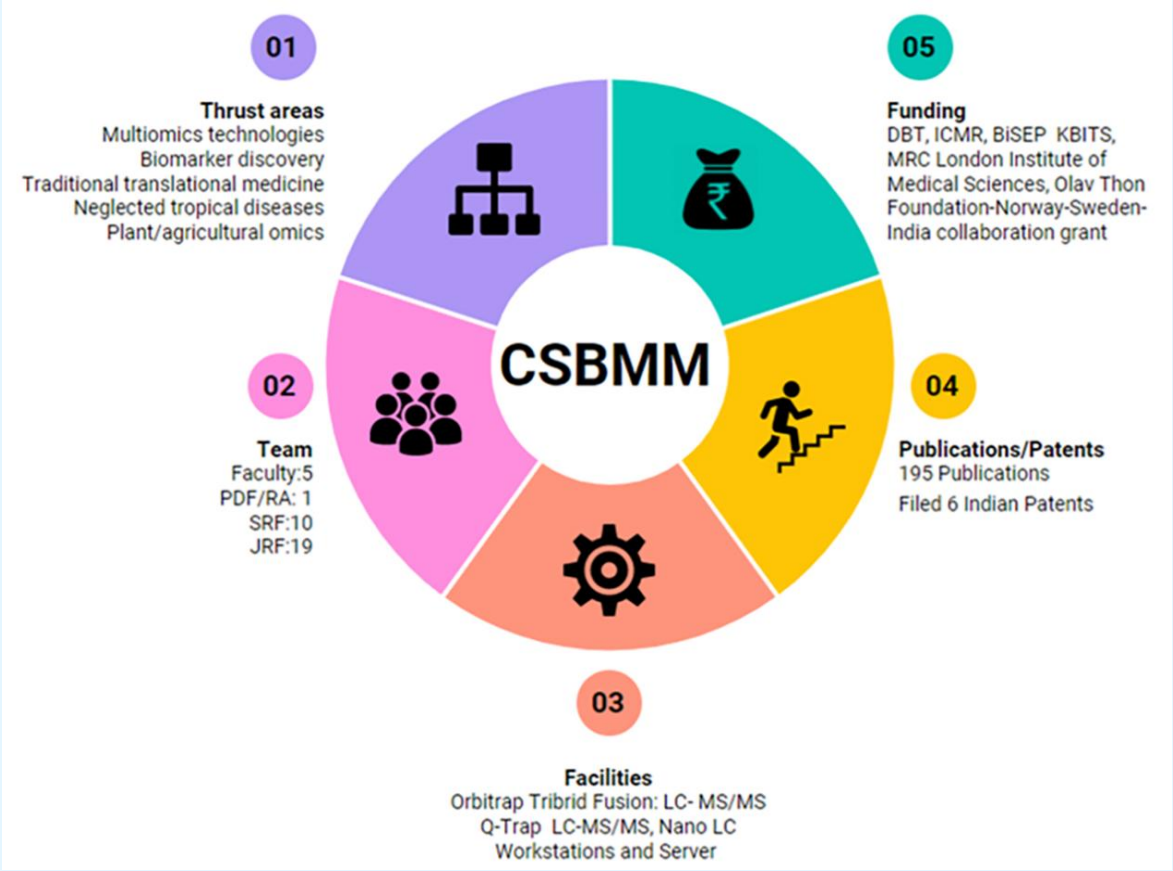
DABS aims to detect individual and population specific variation in various multifactorial disorders that can aid in developing personalized therapeutics. Furthermore, this research group aims to preserve biological diversity by maximizing genetic diversity by preventing inbreeding among genetically related individuals.

5.3. Centre for Systems Biology & Molecular Medicine

CSBMM is equipped with experimental and computational platforms for state-of-the-art proteomic and metabolomic investigations for the discovery and validation of biomarkers, molecular mechanisms and therapeutic targets for human diseases. Researchers at CSBMM work with clinicians to investigate dilemmas faced by them and to find solutions for such diagnostics, prognostics and treatment issues.

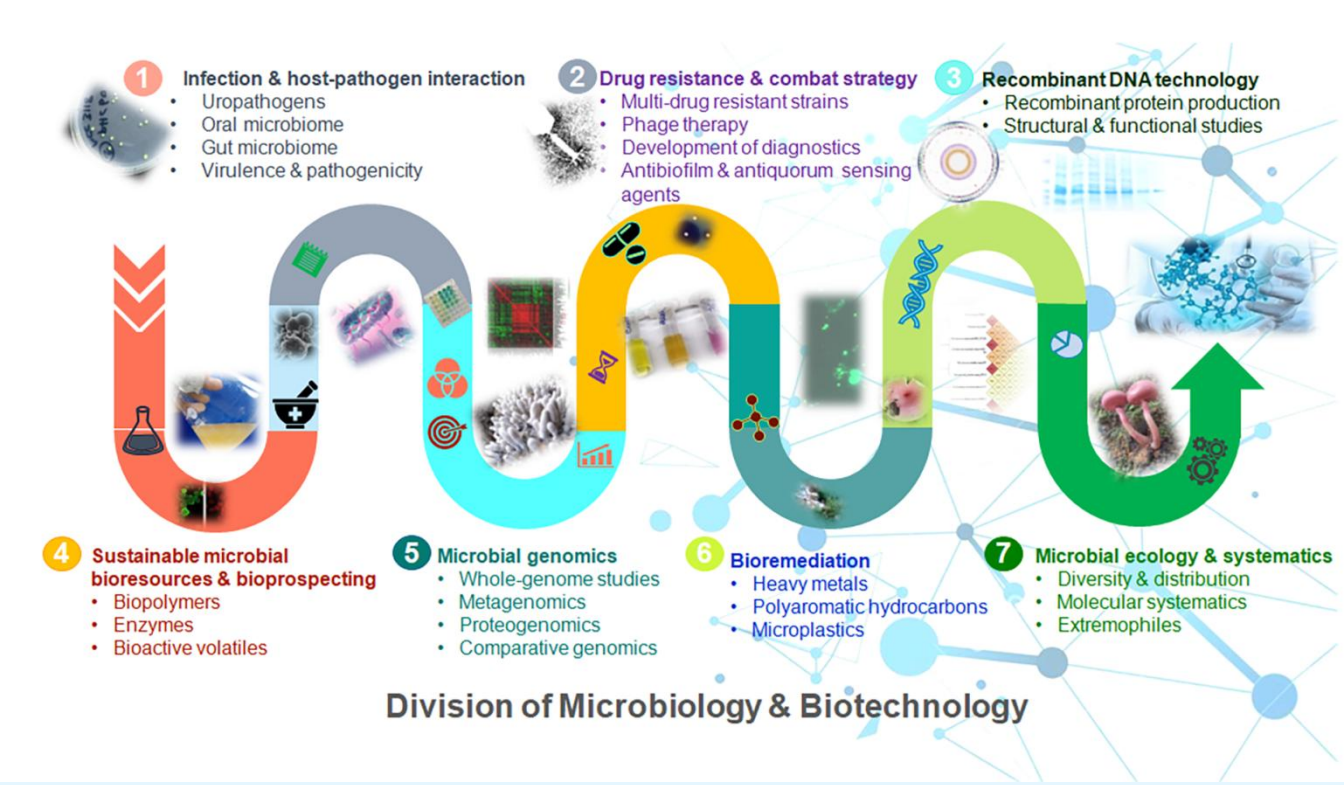
The focus of the group is to develop mass spectrometry based molecular panels as assays for early screening and diagnostic markers from serum, urine, saliva, and tissue biopsies in various diseases including cancers, infectious diseases and neurological disorders. Some of these serum-based screening diagnostic panels may translate to select and prioritize people who can be further subjected to invasive confirmatory diagnostics such as mammography, endoscopy, colonoscopy, sonography and D & C.

CSBMM also focuses on using traditional medicines as surrogates. The group works towards discovering several novel kinases and signaling pathways as new therapeutic targets for the better management of non-communicable and infectious diseases. The team is also involved in developing databases and tools for integrative omics data analysis.



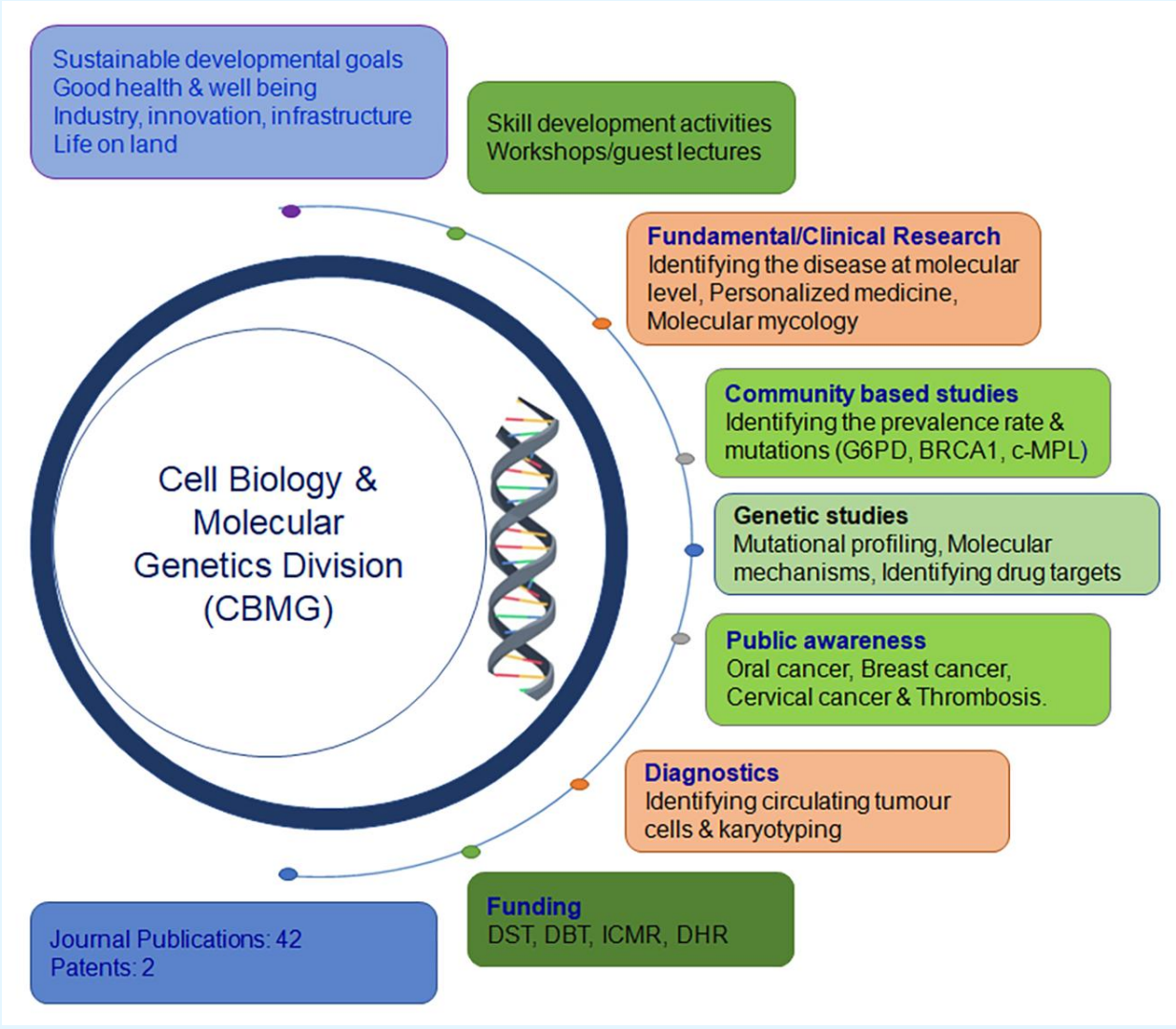
5.4. Division of Microbiology & Biotechnology

This division focuses on understanding and exploring the biology of microbes in the context of biotechnology and therapeutics through a multidisciplinary research approach. The division employs a combination of classical and advanced tools to investigate microbial processes, metabolites, interactions and adaptations. The research activities are funded by DAE/BRNS, DBT, DST, ICMR, etc. The outcomes of the research are published in reputed international journals and several innovations have been patented. Ten PhD candidates have graduated, and more than 15 research scholars are currently pursuing their doctoral studies. Some of the graduates have got placements in prestigious institutions in India and abroad, and some of them entered into entrepreneurship and have established their startups. The research group supports a large number of UG/PG students from different institutions for interdisciplinary research. The facility and expertise are also utilized in providing consultancy services for academia and industry.



5.5. Cell Biology & Molecular Genetics

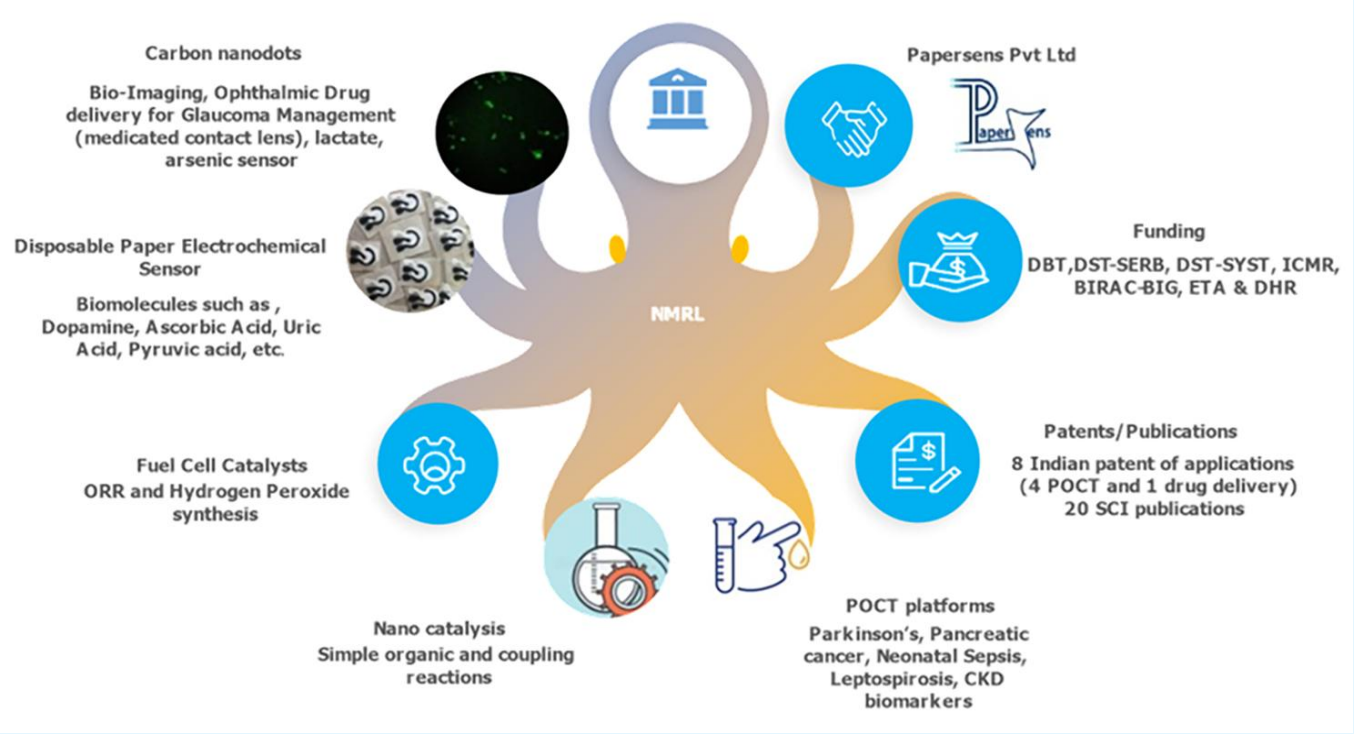
The goal of the division is to explore new avenues of therapeutics to understand drug resistance and genetic mutations at the molecular level, and aid in molecular diagnosis and management of genetic disorders. The Cell Biology and Molecular Genetics (CMBG) division has initiated inter institutional collaborative work and the team has taken up some important studies as major projects, and to name a few, COPD and lung fibrosis, triple-negative breast cancer, hematopoietic malignancies, rare fungal pathogens and their human interactions, early detection of cervical cancers, deep vein thrombosis and host gene mutations in recurrent malarial infections.



5.6. Smart Materials & Devices

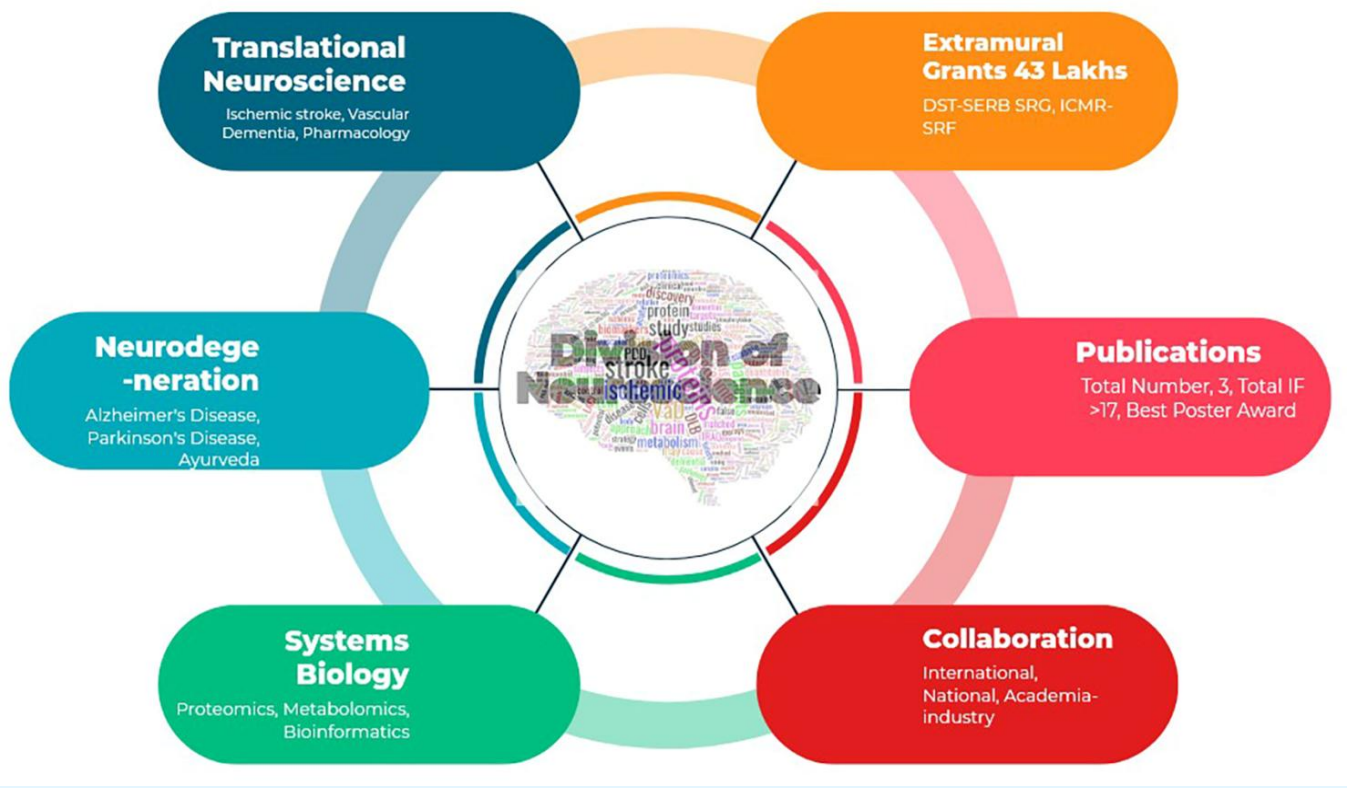
This discipline provides a unique convergence ecosystem to translate scientific knowledge into real-world solutions to tackle the problems and rapidly build prototypes that are useful in the health care, energy, and environmental sectors. The research group is involved in developing nano-biosensor/nanotherapeutic carriers, functional polymeric/biomacromolecules, and nanobiomaterials for bone and tissue engineering.

Smart Materials and Devices is known for its sustainable, internationally acclaimed academic research that fosters transnational collaborations and has secured grants from all the national funding agencies.



5.7. Division of Neuroscience

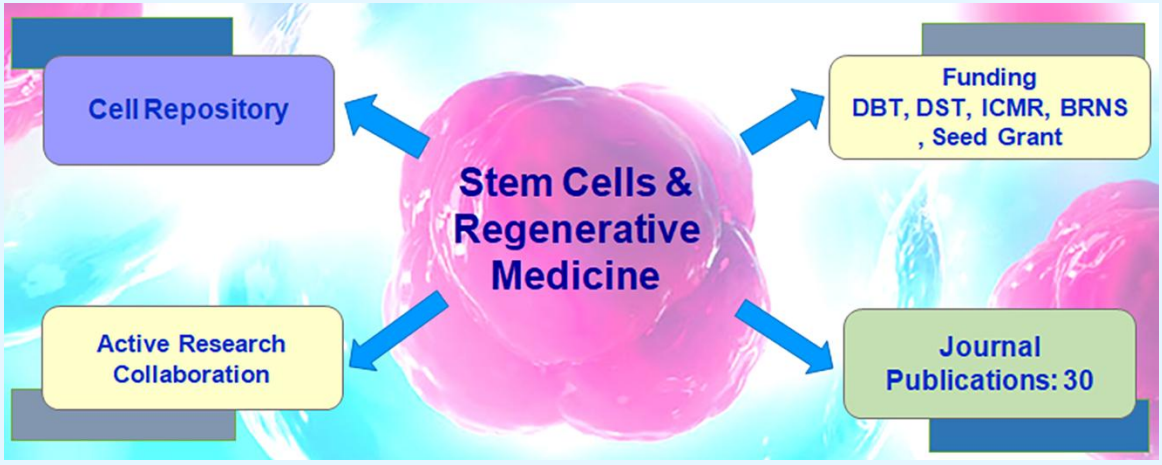
The Division of Neuroscience (DoN) is one of the nine divisions of the Yenepoya Research Centre. Its mission is to conduct cutting-edge research on a variety of aspects related to neuroscience, including cellular, molecular, and systems neuroscience, cognitive and behavioural neuroscience, and neurological and geriatric disorders, including Alzheimer's and Parkinson's disease. DoN also focuses on developing new drugs for the treatment of various neurological disorders using Ayurveda and modern treatments. Researchers from DoN recently demonstrated that an Ayurvedic formulation, *Yashtimadhu* (*Glycyrrhiza glabra*) has neuroprotective effects in a cellular model of Parkinson's disease via modulating mitochondrial dysfunction and apoptosis. We have also published a systematic review of the proteomics data obtained from different oxygen-glucose deprivation models of ischemic stroke.



5.8. Stem Cells & Regenerative Medicine

Stem cells and Regenerative Medicine Centre (SCRMC) is currently working in the following areas:

- Ocular surface stem cells and their role during UV/bright light-induced oxidative stress
- Breast and colon cancer stem cell therapeutics using vitamins and mesenchymal stem cells and tumor xenograft models
- Skeletal muscle wasting disorders, skeletal and non-skeletal fluorosis
- Generation of pancreatic beta cells from pluripotent stem cells and chemical-induced transformation studies



6. Research Grants

The robust research activities of YRC have been supported by institutional and extramural funding from national and international government and non-government agencies. The centre acknowledges the funding support provided by DST, DBT, ICMR, DHR, DAE/BRNS, KBITS, Thon-Olov Foundation, etc.

These funding agencies have supported not only the research but also provided financial support as a fellowship to the young scholars to pursue their PhD.

List of Extramural Projects

Sl. No	Research Project	Principal Investigator	Agency	Lakhs (INR)	Duration
1.	Development of disposable electrochemical nanobio microfludic paper analytic device as a Point-of-Care testing platform for deficiency of Vitamin D and clinical validation	Dr Sudhakaraprasad K	ICMR	37.7	2022-25
2.	Inducing reversal of skeletal muscle atrophy in type 2 diabetes by intrinsic stem cell mobilization using bioactive lipids	Dr Sudheer Shenoy	DBT	37.8	2022-25
3.	Regulation of malaria parasite division by protien phosphorylation	Dr Keshava Prasad TS	DST-SERB	25.8	2022-25
4.	Dual mode detector free hibrid microfluidic POC device for diagnozing Leptospirosis	Dr Sudhakaraprasad K	Start-up Karnataka	30.0	2022-23
5.	Development of an interactive database of ischemic stroke-associated aberrant phospho-proteome - a goldmine of candidate biomarkers and potential therapeutic targets?	Dr Arnab Dutta	DST-SERB	28.9	2022-24
6.	To evaluate the correlation between Vitamin D deficiency and naïve B-lymphocyte activation and function in Patients with recurrent upper respiratory tract infections	Dr Divya Lakshmanan M	ICMR	32.8	2021-24
7.	Gut microbiome and cancer cells crosstalk as a molecular drug target for colon cancer	Dr Shastry RP	ICMR-DHR	30.5	2021-24
8.	Therapeutic potential of AHL analogues through neutrophil extracellular traps mediated bacterial clearance during chronic obstructive pulmonary disease	Dr Shastry RP	DBT	44.1	2021-24
9.	Validation of a bioactive bacterial exopolysaccharide (EPS-A21) as a novel biomaterial for wound care	Dr Rekha PD	BIRAC-ETA	149.8	2021-23
10.	Clinical Validation of Novel Dual PAD Microfluidic Device for the screening of Parkinson's disease	Dr Sudhakaraprasad K	BIRAC-ETA	111.0	2021-23
11.	Molecular Characterization of the human fungal pathogen *Malassezia furfur*	Dr Shankar Prasad Das	ICMR	42.00	2021-24
12.	Development of Lateral flow-based Paper Analytical Device for detection of sphingomyelinase in urine for early phase of leptospirosis	Dr Sudhakaraprasad K	DHR	25.8	2021-24
13.	Deciphering the role of vitamin D on IncRNA-	Dr Raghu Bhushan	DST-SERB	40.4	2021-24

	pERK1/2-AKT-FOXO axis during skeletal muscle differentiation: Implications to skeletal muscle atrophy and osteoarthritis				
14.	Enhancing the sustained release of growth factors from platelets using natural sulphated polysaccharide for treating chronic wounds	Dr Rekha PD	ICMR	2.7	2021-24
15.	Early Translation Accelerator (ETA project)	Dr Arun AB	DBT-BIRAC	100	2020-22
16.	Long term effects of yoga on psycho neuroendocrine functions among adolescent healthy volunteer	Dr Yashodhar Bhandary	DST/SATYAM	39.7	2020-23
17.	Biomarker discovery in seronegative Neuromyelitis Optica (NMO)	Dr Keshava Prasad TS	ICMR	14.4	2020-23
18.	Design and fabrication of micro fluidic PDMS - Paper chip for early detection of neonatal sepsis	Dr Shastry RP	DST-SYST	28.5	2020-23
19.	Understanding the clomiphene citrate-induced changes in secretary epithelial cells of human fallopian tube	Dr Keshava Prasad TS	ICMR	38.6	2020-23
20.	Molecular changes/damages in the ocular surface associated stem cell populations in response to acute exposures to ultraviolet radiationdose ranges and amelioration using novel Epigallocatechin gallate	Dr Bipasha Bose	ICMR	37.9	2020-23
21.	Skill development in mass spectrometry – based metabolomics technologies	Dr Keshava Prasad TS	DBT	200	2020-25
22.	Precise & accurate examination of Bacterial Lithoganic Urine Biomarkers (BaLUB) for kidney stone disease	Dr Mangesh V Suryavamshi	DST-NPDF	21.3	2019-21
23.	Development of thermo responsive polymer nanogels for sustained release of Bevacizumab towards efficient treatment of diabetic macular edema	Dr Renjith P Johnson	DST-SERB	38.8	2019-22
24.	Carbon nanodots caged nano-gel for therapeutic drug delivery of latanoprost for glaucoma management	Dr Sudhakaraprasad K	DST-SERB	37.7	2019-22
25.	Identification of blood and urinary markers to predict severity of neonatal asphyxia using high resolution mass spectrometry	Dr Arun AB	ICMR	9.3	2019-22
26.	Dynamics of biofilm formation and virulence factors in urinary catheter associated *Pseudomonas aeruginosa* strains	Dr Rekha PD	ICMR	4.2	2019-21

27.	Point of care testing platform for early diagnosis of Leptospirosis	Dr Arun AB	ICMR	4.2	2019-22
28.	Identification of serum based oral cancer biomarkers in tobacco chewers	Ms Varshasnata Mohanti	DST-WOSA	21.5	2018-21
29.	Fucoidan beads containing hydroxyapatite and graphene oxide for bone tissue repair and regeneration	Dr J Venkatesan	DST-TARE	18.3	2018-21
30.	A novel therapeutic approach to treat myeloid malignancies by manipulation of c-MPL splicing	Dr Suparna Laha	ICMR	23.3	2018-21
31.	Characterization of signalling mechanisms of neuroprotection conferred by Brahmi (*Bacopa monnieri*) in Alzheimer's disease	Dr Yashwant Subbannayya	ICMR	7.4	2018-21
32.	Skeletal muscle fluorosis: effects of fluoride on skeletal muscle cells and its associated mechanisms *in vitro* and *in vivo* studies	Dr Bipasha Bose	DST-SERB	31.1	2018-21
33.	Fibrinolytic system and miR 200a in EMT and pulmonary fibrosis	Dr Yashodhar Bhandary	DBT	34.0	2018-21
34.	Differentiation of human pluripotent stem cells into functional β islets using bioactive lipids	Dr Bipasha Bose	DST-SERB	53.1	2018-21
35.	Therapeutic potential of curcumin in regulation of IL-17A during acute lung injury and fibrosis	Dr Yashodhar Bhandary	ICMR	7.9	2018-19
36.	Development and application of high resolution genome conformation capture technology to investigate genome architecture in space and time	Dr Shyama Prasad Rao	DBT	17.1	2018-20
37.	Development of a wound healing material from the biopolymers produced by two novel bacterial strains isolated from west coast of India	Dr Rekha PD	DBT	39.6	2018-21
38.	Anti-breast and colon cancer therapy via modulation of cancer stem cells and its associated mechanisms	Dr Bipasha Bose	ICMR	14.3	2018-21
39.	Proteogenomics pipeline to identify potentially pathogenic functional variants by integrating high-throughput cancer genomics and proteomic datasets	Dr Harsha Gowda	ICMR	13.9	2018-21
40.	Development and investigation of adjuvant therapeutic strategies for treating malignant glioma by gamma radiation in combination with angiogenesis inhibition	Dr Ashwini Prabhu	BRNS	24.8	2017-20

41.	Studies on the role of curcumin in blocking p53 in the reduction of severity of gamma irradiation induced apoptosis of alveolar epithelial cells	Dr Yashodhar Bhandary	BRNS	24.8	2017-20
42.	Design and fabrication of dual mode paper-analytical-device for point of care diagnostics	Dr K Sudhakara Prasad	DBT	29.6	2017-20
43.	Early detection of Leptospirosis using immune carbon nanotubes	Dr Arun AB	ICMR	27.3	2017-20
44.	A novel strategy for enhancing the efficiency of platelet-rich plasma (PRP) in diabetic wound care	Dr Rekha PD	DST	42.1	2017-20
45.	Immunomodulation by parasitic macrophage migration inhibitory factor in type-2 diabetes	Dr Keshava Prasad TS	ICMR	23.0	2017-20
46.	Assessment of cellular and molecular changes in response to thoron inhalation in mice	Dr Bipasha Bose	BRNS	42.2	2017-20
47.	Phosphorylation mediated induction of salt stress signaling in primary root growth of model plant *Arabidopsis thaliana*	Dr Pratigya Subba	DST	46.2	2016-19
48.	To evaluate the role of xenoestrogens and antibody receptor diversity and translocation	Dr Divya Lakshmanan M	DST-SERB	39.3	2016-19
49.	Delineating the role of IL-33 in COPD	Dr Sneha Pinto	DST-INSPIRE	70.5	2015-20

7. Collaborations

In order to exchange information, expertise, share resources, and promote interdisciplinary research, YRC encourages collaboration and networking with neighborhood and global organizations. The collaborations aim at joint cutting-edge research, academic programs, student and faculty exchange programs, and grant applications.

Formal Memorandum of Understanding (MoU) with several international, national and regional institutions for collective research and academic activities has been made.

List of Formal Collaborations

Sl. No	Name of the Institution	Year of MoU
1.	ICMR Vector Control Research Centre, Puducherry	Feb 2022
2.	Christian Medical College, Tamil Nadu	Dec 2021
3.	Mothercell Regenerative Centre Private Limited, Tamil Nadu	Oct 2021
4.	Mindful Consultancy, Mangalore/ Dr Shroff's Charity Eye Hospital, Delhi	Oct 2021
5.	London School of Hygine and Tropical Medicine, UK	Aug 2021
6.	Swakit Biotech Private Limited, SLV Karnataka	May 2021
7.	Strand Life Sciences Private Limited, Karnataka	Mar 2021
8.	KLE Shri B M K Ayurveda Mahavidyalaya, Karnataka	Feb 2021
9.	ICAR- Central Plantation Crops Research Institute, Kerala	Feb 2021
10.	Jet Propulsion Laboratory, California	Oct 2020
11.	National Institute of Immunology, New Delhi	Feb 2020
12.	Everest Biotech, Karnataka	Dec 2019
13.	Life Intelect Consultancy Private Limited, Karnataka	Jul 2019
14.	ICAR- Central Marine Fisheries Research Institute, Kerala	May 2019
15.	Gulf Medical University, UAE	Apr 2019
16.	Aurigene Discovery Technologies Limited, Karnataka	Apr 2019
17.	JSS Academy of Higher Education Research, Karnataka	Apr 2019
18.	CSIR - Indian Institute of Chemical Technology (IICT), Hyderabad	Mar 2019
19.	Life Sciences Sector Skill Development Council (LSSSDC), New Delhi	Dec 2018
20.	Accreate Additive Labs Private Limited, Bengaluru, Karnataka	Nov 2018
21.	Olav Thon Foundation, Norway	Sep 2018
22.	Kalam Institute of Health Technology (KHIT), Andhra Pradesh	Sep 2018
23.	RDL Technologies Private Limited, Karnataka	Jun 2018
24.	GenEclat Technologies, Karnataka	Dec 2017
25.	Sher- e- Kashmir, Kashmir	Dec 2017
26.	Bhat Biotech India Private Limited, Karnataka	Dec 2017
27.	St Aloysius College, Karnataka	Oct 2017
28.	Mindful Consultancy, Mangalore/Nobesity Healthcare, Gujarat	Apr 2017
29.	Mindful Consultancy, Mangalore/Agrwal Clinic, Maharastra	Apr 2017
30.	Mindful Consultancy, Mangalore/ Raihan Institute of Medical Science, Kerala	Mar 2017
31.	Mahatma Gandhi University, Kerala	Apr 2017
32.	Bengaluru Genomics Centre, Karnataka	Jan 2017
33.	Mindful Consultancy/ Trivandrum Inst of Digestive & Minimal Access Surgery	Dec 2016
34.	National Institute of Malaria Research, New Delhi	Nov 2016
35.	Bhami's Research Laboratory, Karnataka	Jun 2016

8. Innovation Ecosystem: Patents & Start-ups

YRC has a goal to create a stronger entrepreneurial ecosystem that can nurture many young talents. Entrepreneurial ecosystems provide a platform for start-ups to access the resources and the data generated from the research activities of the investigators. The ecosystem of the centre supports the innovations of societal relevance and translational research from bench to beside to address various societal needs through start-ups with external funding.

The IPM cell envisions the University to be a potential intellectual property generating higher education institute by encouraging research and innovations. The centre has filed several patents in areas of biotechnology, cancer therapeutics and diagnostics, drug delivery, point of care devices, etc which may lead to technology transfer and advances in health care management.

List of Patents

Sl.No	Title of the Patent	Patent Number	Inventors	Year
1	Nanoliposomal formulation for glioma	202241013657	Ashwini Prabhu, Vinitha Rani & J Venkatesan	2022
2	Paper analytical device (pad) for detection of vaginal infections	202211012046	Tanisha Das & Sudhakaraprasad K	2022
3	Sanitary devices with antimicrobial properties and disease indicators	202241010077	Renjith P Johnson, Asim S & Sudhakaraprasad K	2022
4	Device and method for detecting diarrhea	202241015578	Manish Kumar Swain, KS Prasad	2022
5	Anti-quorum sensing and anti-biofilm hydrogel for topical applications	202241040138	Shastry RP & Sukesh KB	2022
6	Composition comprising exopolysaccharide for the treatment of skin wounds, culture media and applications thereof	202141023423	Rekha PD, Sahana TG & Arun AB	2021
7	Nanogel-Based Sustained Drug Delivery System	202041008226	Renjith P Johnson, Namitha K & Supriya Jain	2020
8	Thermal Biosensor Based Diagnostic Kit For Leptospirosis	202041011481	Sudhakaraprasad K, Arun AB & Sapna Kannan	2020
9	Diagnostic Test For Parkinson's Disease	202041032701	Sudhakaraprasad K & Sonia Joseph	2020
10	Ocular Drug Delivery And Tracking Comprising Photoluminescent Carbon Nanodots	202041056414	Sudhakaraprasad K & Kumara BN	2020
11	Process For Extracting Exopolysaccharide From Marine Bacteria and Composition Thereof	201941020938	Rekha PD & Sahana TG	2019

12	Electrochemical Biosensor And Method For Diagnosing Leptospirosis	201941047489	Sudhakaraprasad K, Arun AB & Sapna Kannan	2019
13	Biomarkers For Detection/Diagnosis Of Pulmonary Disorders And Users Thereof	201941051398	Yashodhar Bhandary, Sadiya Bi Shaikh & Irfan K	2019
14	Molecular Biomarkers For Detection Of Idiopathic Pulmonary Fibrosis	201941048222	Yashodar Bandhary, Sadiya Bi Shaikh, Mohd Altaf Nazar, Ashwini P, Prashant K Modi & TS Keshava Prasad	2019
15	Anti-Dermatophytic Hydrogel For Topical Applications	201941047486	Renjith P Johnson, Rajesh P Shastry, Namitha K Preman & Nikitha	2019
16	Method and kit for direction of drugs resistant *Mycobacterium tuberculosis*	201941006113	TS Keshava Prasad, Srikanth P Tripathy, Harsha Gowda, Akhilesh Pandey, Jayashree Advani & Oishi Chatterjee	2019
17	A Microfluidic Device	201841034005	Sudhakarprasad K &S onia Joseph	2018
18	Polymeric Hydrogel	201841037809	Renjith Johnson & Namita Preman	2018
19	Identification of Novel Peptides for Diagnosis of Brucellosis Infection in humans and animals using MRM Technology	201821006752	TS Keshava Prasad, Sneha M Pinto & Saketh Kapoor	2018
20	Method for detection and diagnosis of oral cancer in a sample	US20180321244A1	Riaz Abdulla, Arun AB, Rekha PD, Sneha Pinto, Yashwanth S, Anwar Asif, Johan H & Farhad Y	2018
21	Method for detection & diagnosis of oral cancer in a sample	AU2018100578A4	Riaz Abdulla, Arun AB, Rekha PD, Sneha Pinto, Yashwanth S, Anwar Asif, Johan H & Farhad Y	2018
22	Process for Extraction of Exopolysaccharide and Carotenoids in single fermentation	201741002382	Rekha PD, Arun A B & Priyanka P	2017
23	A system and method for masking and removing noise from digital images	201741003863	Manjunath Shenoy, BH Shekhar & Parameshwar R Hegde	2017
24	Method for detection and diagnosis of oral cancer in a sample	201741015794	Riaz Abdulla, Arun AB, Rekha PD, Sneha Pinto, Yashwanth S, Anwar Asif, Johan H & Farhad Y	2017
25	Process for enhancing bioactivity of exopolysaccharide produced by *Labrenzia* Sp. PRIM 30 and its use	201641003579	Rekha PD, Arun AB & Priyanka P	2016

Start-ups

The university has created a vibrant environment to promote the entrepreneurial ecosystem for the faculty and students. YRC also encourages its faculty and scholars in entrepreneurship and this has led to the establishment of new start-ups that are incubated in the Yenepoya Technology Incubator.

The start ups are:

- PaperSens Pvt Ltd by Dr Sudhakaraprasad and Ms Sonia Joseph
- Relicus Bio Pvt Ltd by Dr Priyanka P and Dr Vipin C
- Goran Apps by Dr Parameshwar R Hegde
- ChemAcura Pvt Ltd by Ms Manisha Rao and Mr Kumara BN
- Omics Analytics Pvt Ltd by Dr TS Keshava Prasad and Dr Rajesh Raju
- Phygician Biologics Pvt Ltd by Dr Khalid Parvez and Dr Arun AB

9. Research Forums

Workshops, conferences/symposia, seminars, guest lectures, and training programs are routinely conducted for providing a platform for researchers to learn new techniques, exchange research findings or ideas, and upgrade skills. Resource persons from academia and industry are invited to deliver sessions and train the in-house researchers, but also, others.

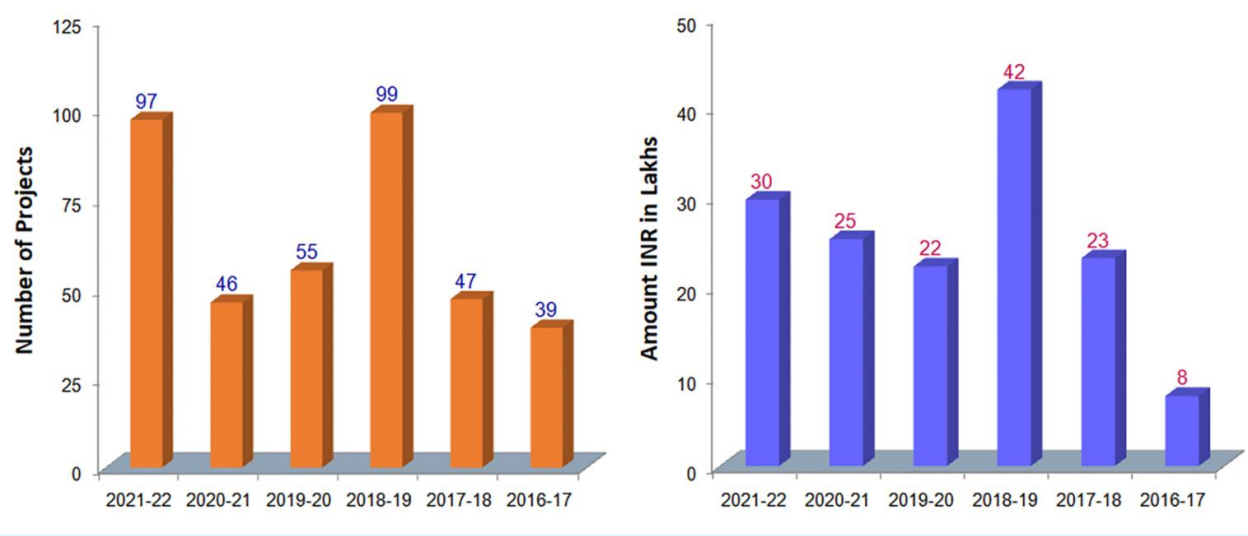
The ‘Science-Unlimited Webinar Series’ was initiated to promote and popularize science among the researchers across the country. The major focus of this webinar series is to highlight recent advances in science from a multidisciplinary point of view. In this webinar series, renowned global and national scientists, as well as, in-house faculty are invited to deliver a one-hour lecture to illuminate young minds with new ideas which eventually may help to open new avenues of research in the future. Regular workshops on advanced techniques are organized to give hands on training in the respective research areas. Most popular are; Cell Culture Techniques, Advanced Molecular Biology Techniques, Proteomics and Metabolomics.

10. Consultancy & Services

The facilities and expertise available in YRC are used for providing consultancy and research services to various government/non-government, academic institutions and industries. To meet the satisfaction of the clients, YRC is certified with GLP and ISO17025:2017 compliance. The key areas of consultancy include

- Microbiological assays
- Molecular biology assays
- Cell based *in-vitro* assays
- Proteomics and metabolomics
- Stem cell and tissue engineering
- Bioinformatics and data analysis
- Quality control tests
- Microscopy and imaging
- Flowcytometry
- Analytical testing services
- Nano-technology based assays
- Biochemical analysis

Detailes of consultancy projects and the revenue generated are presented below



11. Academic Programs & Skill Training

The training and capacity-building programs of YRC are designed to meet the requirements of various target groups including students and researchers from academia and industry. The academic programs at the centre were initiated with the objectives of empowering the students to acquire sound knowledge in the domain and develop practical skills, and enable them to contribute effectively in the fields of academics and research with highest professionalism and values. The programs are meticulously designed by the experts to meet the contemporary employment requirements.

The key academic programs offered are:

- PhD program
- MSc Bioscience
- MSc Computational Biology
- PG Diploma in Multiomics Technology

These programs are multidisciplinary in content and enable the students to seek career in industry or academic research.

The short-term courses are (i) Cell Culture Techniques, (ii) Research Grant Proposal Writing and (iii) Biostatistics.

The research programs offered include PhD in various disciplines, PDF/RA, and internships. All PhD students enrolled for the program at YRC are supported with fellowship.

MSc Bioscience

The MSc program in Bioscience was introduced in 2018 to train the students in research skills required for the life science skill sector and academia/industry research.

The choice-based credit system (CBCS) implemented in this curriculum allows students to develop strong footing in the fundamentals of life science and specialize in the discipline(s) of their choice and ability.

The students receive extensive laboratory training skills suitable for the life science skill sector.

The program includes a semester for the internship and students that can be taken-up in-house or outside organizations.

MSc Computational Biology

The MSc program in Computational Biology was started in 2021. The broad goal of this program is to enable students to acquire advanced knowledge in the subject and develop competent practical skills to contribute effectively in the fields of academics, research, and industry.

This program is unique and offers training in proteomics and metabolomics using mass spectrometry-derived datasets and also genomics and transcriptomics data analysis using various pipelines.

The updated course curriculum designed in consultation with eminent scientists, professionals, and industrial experts helps the students to learn relavant topics in computational biology and make them competent to grab the opportunities.

Postgraduate Diploma in Multiomics Technology

A one-year postgraduate diploma in Multiomics Technology sponsored by Karnataka Biotechnology and Information Technology Services (KBITS), Government of Karnataka, under the Biotechnology Skill Enhancement Program (BiSEP) since 2018.

The students are admitted through the KBAT examination conducted by the state nodal office. The selected students are eligible for the stipend/fellowship from the Government of Karnataka. The program is highly skill-based with one semester of industry internship. The students are trained for the LSSDC quality certification.

PhD Program

The doctoral research program is designed to support aspiring doctoral candidates to choose the area of interest from the multidisciplinary research thrust areas. The candidates are selected through Yenepoya (Deemed to be University) PhD entrance exam conducted twice a year. The candidates are supported through fellowships from DST-INSPIRE, CSIR-UGC-NET, DBT-JRF, ICMR-SRF, University as well as funded research projects.

All the infrastructure and facilities are provided along with vibrant research ecosystem to excel in the chosen areas of research. Research scholars are also encouraged to apply for patents, international funding for short-term visits and entrepreneurship. YRC has outlined clear program objectives and outcomes that ensures holistic development of the students.

List of PhDs Awarded

Sl No	Name	Title of thesis	Year
1	Varshasnata Mohanty	Identification of serum-based oral cancer biomarkers in tobacco chewers	2022
2	Mohd Althaf Najar	Dissecting signaling mechanism of CAMKK2 in gastric adenocaracinoma using mass spectrometry based phosphoproteomic approach	2022
3	Gayathree K	Identification of molecular network involved in neuroprotective functions of Yashtimadhu (*Glycyrrhizia glabra*)	2021
4	Anjali K	Studies on the prevalence of opportunistic microorganisms in oral cancer patients; a microbiome approach	2021
5	Shaheer Koniyan	A study on radio sensitization properties of natural compound against cancer cells.	2021
6	Jagadish K	In vitro characterization of radiation exposed teeth and testing of shielding materials for radiotherapy in head and neck cancers	2021
7	Ustav Sen	Anti-cancer therapy via modulation of cancer stem cells and its associated mechanisms	2021
8	Sadiya Bi Shaikh	Role of curcumin and micro RNA 200c on inflammatory cytokines mediated epithelial mesenchymal transition during lung injury and pulmonary fibrosis	2020
9	Saketh Kapoor	Evaluation for the presence of CD34+ /45- adult stem cells from all three germ-layers (ectoderm, mesoderm and endoderm) and exploring their therapeutic potential in mouse models of muscular dystrophy	2020

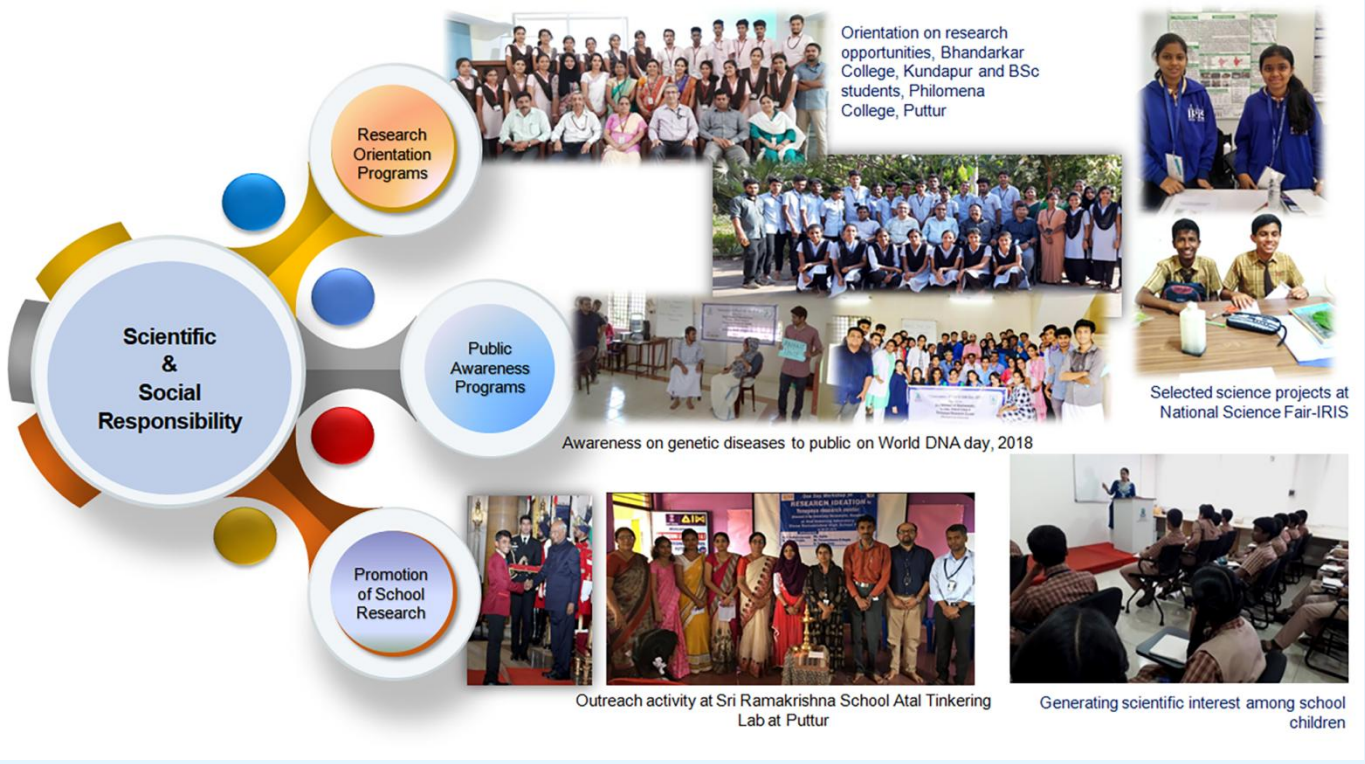
10	Parameshwar R Hegde	A study on the diagnosis of skin diseases using machine learning as a complementary approach	2020
11	Vipin C	Dynamics of biofilm formation and virulence factors in urinary catheter associated *Pseudomonas aeruginosa* strains	2020
12	Nagaraj K	A study on Bacterial Expolysaccharides for Reducing the Uranium induced nephrotoxicity in Animal Model	2020
13	Mahesh M Gouda	Role of curcumin in regulation of inflammatory cytokines and the fibrinolytic system during Acute Lung Injury and Fibrosis	2020
14	Sahana TG	Development of wound healing material from bacterial exopolysaccharides and understanding the mechanism of their action	2019
15	Sangeetha Vijayan P	Understanding the cellular mechanism of uranyl nitrate induced nephrotoxicity in Swiss albino mice.	2019
16	Muhammed Manzoor	Characterization of urinary calculi and studies on the role of microbiome in urolithiasis	2019

12. Scientific Social Responsibility

Activities were enganed to bridge the gap between the lab and community for social scientific engagement.

YRC disseminates scientific knowledge and nurtures the school science project programs, mentors young minds to formulate, perform and interpret research projects and presentations in national and international forums.

Several middle and high school science enthusiasts from remote rural areas of the state have been supported over the last 10 years and have been awarded and recognized at various national and international forums. Several national and international awards have been bestowed on these students and a few of them have continued higher education in science, technology, engineering, and mathematics (STEM).



Projects at National Science Fair-IRIS

Interaction with researchers YRC

13. Awards & Recognition

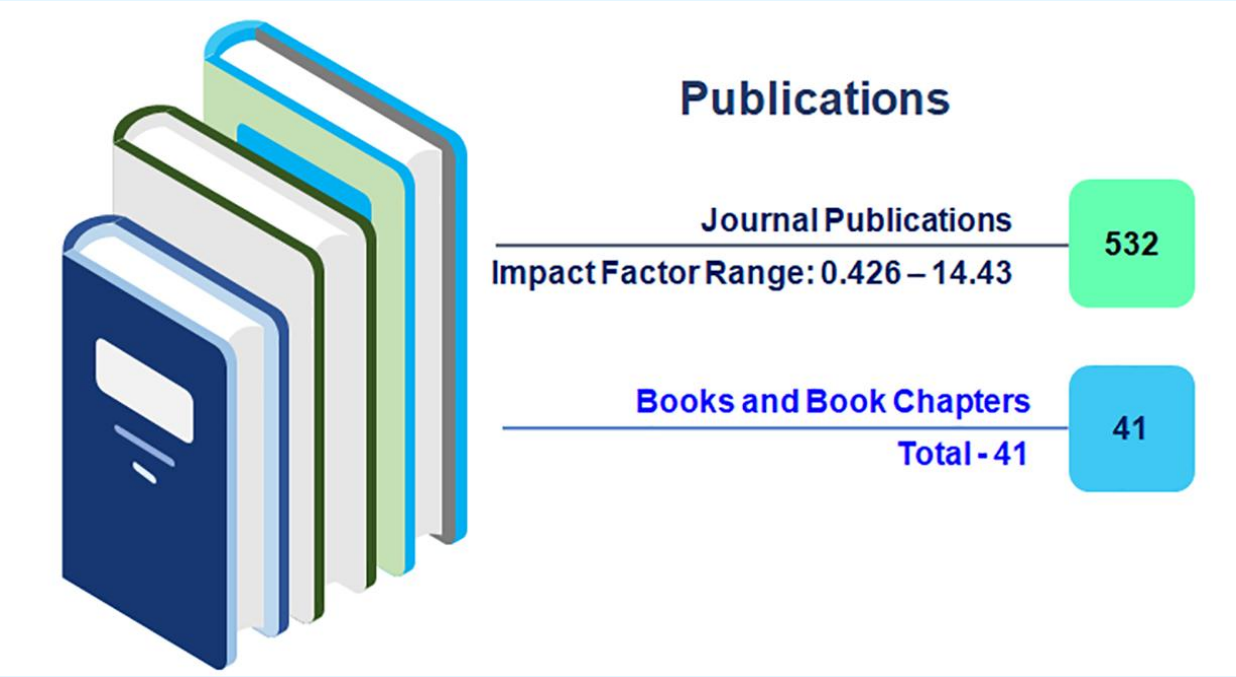
The research findings and innovations made by the researchers of YRC have received awards and accolades at various scientific forums and platforms, nationally and globally. Several international and national short-term fellowships and travel grants have been received for collaborative research and training. Research scholars as part of the program are routinely mentored on scientific communication, which leds to awards.

List of National Fellowships

Sl No	Name	Year	Fellowship	Agency
2021-22				
1	Ms Sapna Kannan	2021-22	ICMR-RA	ICMR
2	Ms Asiamma	2021-22	ICMR-SRF	ICMR
3	Ms Athmika Shetty	2021-22	ICMR-SRF	ICMR
4	Ms Apoorva HN	2021-22	ICMR-SRF	ICMR
5	Mr Pavan SR	2021-22	ICMR-SRF	ICMR
6	Ms Somi Shrivastava	2021-22	ICMR-SRF	ICMR
7	Ms Manju Babu	2021-22	ICMR-SRF	ICMR
8	Ms Fathimath Muneesa	2021-22	ICMR-SRF	ICMR
2020-21				
1	Ms Ayshathil Bushra	2020-21	CSIR-SRF	CSIR
2	Ms Poornima R	2020-21	ICMR-SRF	ICMR
3	Ms Nikhitha Amin	2020-21	ICMR-SRF	ICMR
4	Mr Panduranga A Dalavi	2020-21	ICMR-SRF	ICMR
5	Ms Sneha S Rao	2020-21	ICMR-SRF	ICMR
7	Dr Shaheer Koniyan	2020-22	ICMR-RA	ICMR
2019-20				
1	Ms Shanooja Shanavas	2019-20	JRF	UGC-CSIR
2	Ms Gayathree K	2019-20	SRF	DST/KSTePS
3	Ms Namitha K	2019-20	ICMR-SRF	ICMR
4	Mr Rex DAB	2019-20	ICMR-SRF	ICMR
5	Ms Saptami Kanekar	2019-20	ICMR-SRF	ICMR
6	Mr Shaheer Koniyan	2019-20	ICMR-SRF	ICMR
7	Ms Sonia Joseph	2019-20	ICMR-SRF	ICMR
8	Dr Mangesh V Suryavanshi	2019-20	PDF	DST NPDF
2018-19				
1	Mr Adarsh PK	2018-19	JRF	UGC-CSIR
2	Ms Aiswarya N	2018-19	JRF	UGC-CSIR
3	Ms Akina P	2018-19	JRF	UGC-CSIR
4	Ms Anagha K	2018-19	JRF	UGC-CSIR
5	Ms Anjana Aravind	2018-19	JRF	UGC-CSIR
6	Ms Mrudula KK	2018-19	JRF	UGC-CSIR

7	Mr Sharon Balakrishnan	2018-19	JRF	UGC-CSIR
8	Ms Sapna Kannan	2018-19	SRF	ICMR
9	Ms Sayali C Deolankar	2018-19	SRF	ICMR
10	Ms Sumrathi Gurtoo	2018-19	SRF	ICMR
11	Mr Vipin C	2018-19	SRF	ICMR
2017-18				
1	Ms Sahana TG	2017-18	JRF	DST-INSPIRE
2	Mr Santosh Kumar Behera	2017-18	JRF	DBT-BINC
3	Mr Sandeep K	2017-18	SRF	ICMR
4	Mr Utsav Sen	2017-18	SRF	ICMR
5	Ms Priya Swetha D'Souza	2016-17	JRF	DST
6	Mr Deepeshwar T Harikantra	2016-17	JRF	UGC
7	Mr Mohammed Altaf Najar	2016-17	JRF	CSIR
8	Ms Gayathree K	2016-17	SRF	CSIR

14. Publications



List of Publications

1. Aricatt DP, Prabhu A, Avadhani R, Subramanyam K, Manzil AS, Ezhilan J, et al. A study of coronary dominance and its clinical significance. Folia Morphol (Warsz). 2022.
2. Pandey DK, Fürsich FT, Alberti M, Das R OlórizSáez F. First population-level study of the ammonite genus HildoglochicerasSpath, and the Lower Tithonian record of the Hildoglochiceras Horizon in the Kachchh Basin, India. Zitteliana. 2022; 96: 1-49.
3. Krishna SM, Rukmini GSM, Nishmitha K, Das R. Ancestry Specific variation in neuropsychological disorders among the South Asian population. Journal of Experimental Biology & Agricultural Science. 2022; 10(1):248-53.
4. Aricatt DP, Manzil AS, Das R, Prabhu A. Remodelled multiple linear regression equation for stent size calculations of left anterior descending artery (LAD-proximal) dimensions with single vessel disease. Journal of Clinical Images and Medical Case Reports.2022.
5. Khan A, Krishna SM, Ramakrishnan U, Das R. Recapitulating whole genome based population genetic structure for Indian wild tigers through an ancestry informative marker panel. Heredity. 2022; 128(2):88-96.
6. Guleria VS, Parit R, Quadri N, Das R, Upadhyai P. The intraflagellar transport protein IFT52 associated with short-rib thoracic dysplasia is essential for ciliary function in osteogenic differentiation in vitro and for sensory perception in Drosophila. Exp Cell Res. 2022; 418(2):113273.
7. Dubey S, Bansal T, Garg P, Rekha PD, Hegde A, Das R. Outcomes of Ab interno Irrigating Goniectomy with Trabectome in primary and secondary glaucoma from a single centre in India. Indian Journal of Ophthalmology; 2022.

8. Bhavya B, Albeshr MF, Mahboob S, Manzoor I, Das R. COVID-19 Host GenomeDB: a comprehensive database related to COVID-19 host genetics. Int.J.Transl.Med.2022,2,355-363;

9. Shah S, Shah B, Sharma R, Rekadwad B, Shouche YS, Sharma J, Pant B. Colonization with non-mycorrhizal culturable endophytic fungi enhances orchid growth and indole acetic acid production. BMC Microbiology. 2022; 22(1): 101.

10. Salazar B, Ortiz A, Keswani C, Minkina T, Mandzhieva S, Pratap Singh S, Rekadwad B, Borriss R, Jain A, Singh HB, Sansinenea E. *Bacillus* spp. as Bio-factories for Antifungal Secondary Metabolites: Innovation Beyond Whole Organism Formulations. Microbial Ecology. 2022;

11. Kanekar S, Rex DAB, Chandrasekaran J, Rekha PD. Competitive interaction of thymol with cviRinhibits quorum sensing and associated biofilm formation in *Chromobacterium violaceum*. International Microbiology. 2022; 25(3): 629-638.

12. Rao SS, Prabhu A, Kudkuli J, Surya S, Rekha PD*. Hyaluronic acid sustains platelet stability with prolonged growth factor release and accelerates wound healing by enhancing proliferation and collagen deposition in diabetic mice. Journal of Drug Delivery Science and Technology. 2022; 67: 102898.

13. Kanekar S, Fathima F, Rekha PD. Carvone - a quorum sensing inhibitor blocks biofilm formation in *Chromobacterium violaceum*. Natural Product Research. 2021; 1-6.

14. Karthikkeyan G, Behera SK, Upadhyay SS, Pervaje R, Prasad TSK, Modi PK. Metabolomics analysis highlights Yashtimadhu (Glycyrrhiza glabra L.)-mediated neuroprotection in a rotenone-induced cellular model of Parkinson's disease by restoring the mTORC1-AMPK1 axis in autophagic regulation. Phytotherapy Research. 2022; 36(5): 2207-22.

15. Najar MA, Arefian M, Sidransky D, Gowda H, Prasad TSK, Modi PK, Chatterjee A. Tyrosine Phosphorylation Profiling Revealed the Signaling Network Characteristics of CAMKK2 in Gastric Adenocarcinoma. Frontiers in Genetics. 2022; 13: 854764.

16. Kasaragod S, Kotimoole CN, Gurtoo S, Prasad TSK, Gowda H, Modi PK. A computational workflow for predicting cancer neo-antigens. Bioinformation. 2022; 18(3): 214-218.

17. Rex DAB, Patil AH, Modi PK, Kandiyil MK, Kasaragod S, Pinto SM, et al. Dissecting Plasmodium yoelii Pathobiology: Proteomic Approaches for Decoding Novel Translational and Post-Translational Modifications. ACS Omega. 2022; 7(10): 8246-8257.

18. Das Gupta M, Kumaresan A, Saraf KK, Paul N, Sajeevkumar T, Karthikkeyan G, et al. Deciphering metabolomic alterations in seminal plasma of crossbred (Bostaurus X Bosindicus) bulls through comparative deep metabolomic analysis. Andrologia. 2022; 54(1):e-14253.

19. Lin SY, Hameed A, Tsai CF, Tang YS, Young CC. *Pusillimonas faecipullorum* sp. nov., isolated from the poultry manure. Archives of Microbiology. 2022;204(5):256

20. Lin SY, Hameed A, Tsai CF, Hung MH, Young CC. *Agrilactobacillus fermenti* sp. nov. isolated from fermented vegetable residue. International Journal of Systematic and Evolutionary Microbiology. 2022 ;72(4).

21. Rex DAB, Subbannayya Y, Modi PK, Palollathil A, Gopalakrishnan L, Bhandary YP, Prasad TSK, Pinto SM. Temporal Quantitative Phosphoproteomics Profiling of Interleukin-33 Signaling Network Reveals Unique Modulators of Monocyte Activation. Cells. 2022;11(1):138

22. Dasgupta M, Kumaresan A, Saraf KK, Nag P, Sinha MK, Aslam M K M, Karthikkeyan G, Prasad TSK, Modi PK, Datta TK, Ramesha K, Manimaran A, Jeyakumar S. Deep Metabolomic Profiling Reveals Alterations in Fatty Acid Synthesis and Ketone Body Degradations in Spermatozoa and Seminal Plasma of Astheno-Oligozoospermic Bulls. Frontiers in Veterinary Science. 2022;8:755560.

23. Shaikh SB, Gouda MM, K I, Rahman T, Shetty A, Bhandary YP. Alterations in mRNA Expression Levels of Tight Junction Proteins in the Blood Cells of Smokers with or without COPD. Endocrine, Metabolic & Immune Disorders - Drug Targets. 2022

24. Rex DAB, Deepak K, Vaid N, Dagamajalu S, Kandasamy RK, Flo TH, Keshava Prasad TS. A modular map of Bradykinin-mediated inflammatory signaling network. Journal of cell communications and signaling. 2022 ;16(2):301-310.

25. Dagamajalu S, Rex DAB, Philem PD, Rainey JK, Keshava Prasad TS. A network map of apelin-mediated signaling. Journal of cell communications and signaling. 2022 ;16(1):137-143.

26. Dagamajalu S, Rex DAB, Suchitha GP, Rai AB, Rainey JK, Prasad TSK. The network map of Elabelasignaling pathway in physiological and pathological conditions. Journal of cell communications and signaling. 2022 ;16(1):145-154.

27. Rex DAB, Suchitha GP, Palollathil A, Kanichery A, Prasad TSK, Dagamajalu S. The network map of urotensin-II mediated signaling pathway in physiological and pathological conditions. Journal of cell communications and signaling. 2022;1-8

28. Rex DAB, Vaid N, Deepak K, Dagamajalu S, Prasad TSK. A comprehensive review on current understanding of bradykinin in COVID-19 and inflammatory diseases. Molecular Biology Reports. 2022:1–13.

29. Nekrakalaya B, Arefian M, Kotimoole CN, Krishna RM, Palliyath GK, Najar MA, Behera SK, Kasaragod S, Santhappan P, Hegde V, Prasad TSK. Towards Phytopathogen Diagnostics? Coconut Bud Rot Pathogen Phytophthorapalmivora Mycelial Proteome Analysis Informs Genome Annotation. OMICS. 2022; 26(4):189-203.

30. Bhagya N, Chandrashekar KR. Antiviral, Anticancer and Hypotensive Potential of Diphyllin Glycosides and their Mechanisms of Action Mini-Reviews in Medicinal Chemistry. 2022;1752 - 1771

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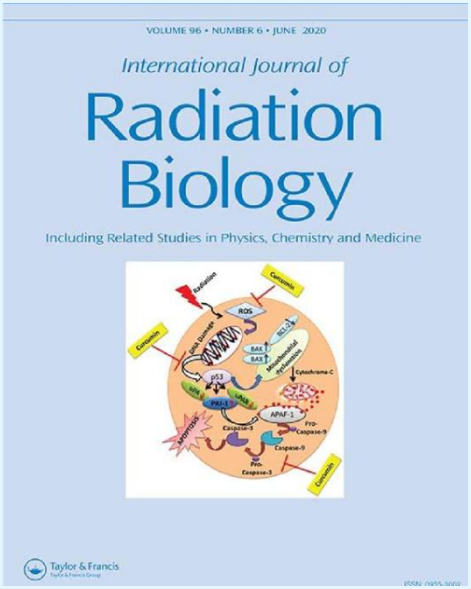
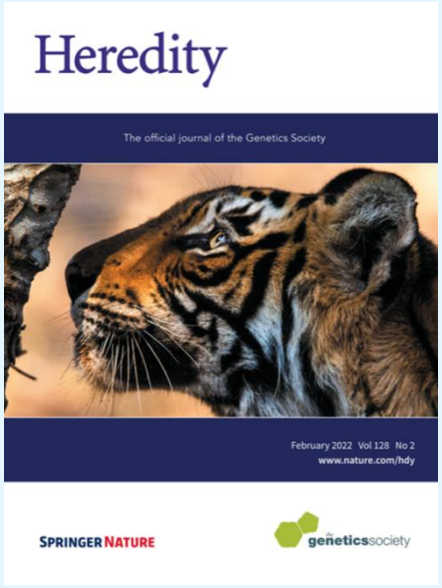




15. Database Created

Database created by different groups of YRC are as follows:

Ischemic Stroke Specific Data Resource

Database was created by Dr Arnab Datta and team and contains in-house and community-generated curated and analyzed data. This contains biological, proteomics and various other -omics data.

Link:https://yenepoya.res.in/database/LTN_Datta_Lab/LACI_MEV_Proteomics/index.html

COVID-19 Host Genetic Variants Database

Host GenomeDB is a publicly available database that summarizes the host-specific genetic variants and genes involved in coronavirus disease 2019 (COVID-19) from published genome-wide association studies (GWAS) created by Dr Ranajith Das and team (2022). The COVID-19 Host GenomeDB was the first database specially designed to store the genetic variants and genes involved in COVID.

Link: http://covid.gwas.genomemapster.com/

Proteome Xchange datasets

The dataset is operated through the PRIDE database created by Dr Keshav Prasad, for decoding *Plasmodium yoelii* biology. The Proteome Xchange dataset contains the proteomic profiling of *Plasmodium yoelii* 17XNL strain

Link: http://proteomecentral.proteomexchange.org/cgi/GetDataset?ID=PXD013932

The dataset is operated through the PRIDE database created by Dr Bipasha Bose, and team of stem cell division. The Proteome Xchange dataset contains the proteomic profiling of FAC-sorted *ex vivo* and *in vitro* expanded Sca-1+ cells derived from murine skeletal muscle.

Link: http://proteomecentral.proteomexchange.org/cgi/GetDataset?ID=PXD022247

MS2Compound

This was developed by the Systems Biology and Molecular Medicine division for metabolic analysis.

Link: https://github.com/beherasan/MS2Compound

CusVarDB

This tool was developed for the proteogenomics analysis by Dr Keshava Prasad and team.

Link: https://github.com/sandeepkasaragod/CusVarDB

16. Alumni Placements

Ph.D

Dr Priyanka
Founder
Relicus Bio Pvt. Ltd.
Chennai

Dr Mahesh Gouda
PDF
Ludwig Maximilian University, Germany

Dr Sahana TG
PDF
Mayo clinic, USA

Dr Sangeetha Vijayan
Research Associate
Sri Chitra Tirunal Institute of Medical Sciences

Dr Shaheer Koniyan
PDF
University of Texas USA

Dr Nagraj KK
Research Scientist
Raichur Institute of Medical Sciences, Raichur

Dr Vipin Chembili
Co-founder
Relicus Bio Pvt Ltd
Chennai

Dr Saketh Kapoor
Research Scientist
Helmholtz Zentrum München, Germany

Dr Jagadish K
Research Executive-Karkinos Healthcare Pvt Ltd Cochin

Dr Gayathree K
Scientist
Enveda Therapeutics India Pvt Ltd Vishakapatnam

Dr Sadiya Bi Shaikh
PDF
University of Rochester, New York

Dr Muhammed Manzoor
PDF
Folkhalsan Research Centre, Finland

Dr Parameshwar R Hegde
Proprietor
Goran Apps
Mangalore

Dr Utsav Sen
PDF
Weizmann Institute of Science, Israel

Dr Mohammed Altaf N
PDF
University of Pennsylvania, USA

M.Sc

Mr Nikhil Singh
Research Associate
Himalaya Wellness Company, India

Ms Abhipsa Panda
PhD Student
Polish Academy of Sciences Poland

Ms LathikaAnchan
Scientist
Bharath Biotech, Mumbai

17. YRC Vibes

Annual Day Celebration at YRC

An ‘Annual Get Together’ is organized on 31st December every year to celebrate the achievements of the year and to refresh. The faculty and students participate and perform cultural activities while the significant achievements made by the faculty and students are recognized and awarded during the event.

National Day Celebration at YRC

National Science Day is celebrated every year on February 28. The event is organized by YRC on behalf of the university in collaboration with sister departments.

As a part of this celebration, many outreach programs, including quiz competitions, invited lectures, pitch an idea and other hackathon-types of competitions are organized.

University also recognizes outstanding research performance by the faculty in the form of the best researcher award, best publication award, highly cited article award, best innovation award, etc.

18. Testimonials

"An excellent facility with superior scope"
Dr VijayRaghavan, Secretary, DBT, New Delhi

"Nice to see a bubbling group of researchers in a new upcoming research centre"
Bharat Ratna Dr CNR Rao, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

"Proud to see such wonderful work at the facility and in faraway Mangalore"
Dr AK D'Cruz, Director-Tata Memorial Hospital, Mumbai

"I was excited to see the advancement done by the institution in every aspect of medical science including latest laboratory in the premise. I pray the God that this institution will prosper and give benefit to the nation in health sector"
Shri Shripad Yesso Naik, the Union Minister of AYUSH, Government of India

"Wonderful facility! Research is the future to solve issues in medicine. I am very impressed with the passion of the faculty in R & D. Keep up the good work"
Faizal E. Kottikollon and Shabana Faizal, Faizal Shabana Foundation, Bangalore

"It is very good to see how committed you are with research"
Dr Claudio Almeida Quadros, Bahia State University, Brazil

"An ideal facility positioning with cutting edge research and talented researchers right in the middle of a hospital, just what is needed for the translational research"
Prof Pauline Ford, School of Dentistry, The University of Queensland, Australia

"It is a wonderful experience to have noted the university. Multidisciplinary research facility is among milestones in the journey of this institute's research mission. Congratulations to Chancellor and his team"
Dr VM Katoch, Director General-ICMR, New Delhi

"It is indeed very heartening to see new facilities established for pioneering research work in stem cell and proteinology. Wishing a great success in your work of bringing solutions to human health problems"
Dr AS Kiran Kumar, Former Chairman, ISRO

Sahana TG (PhD,2019)
Senior Postdoctoral
Researcher, Mayo Clinic-Florida, USA

"I began my research journey as a junior research fellow at Yenepoya Research Centre (YRC) where I later enrolled in the PhD program. Over the next four years, I received rigorous training which helped me to become a proficient biomedical researcher. The research center is multidisciplinary focusing on diverse research areas and is highly collaborative providing me an excellent platform to acquire multiple technical and soft skills which I highly appreciate. The lab presentations and journal club helped me be critical and creative. The environment at YRC is highly motivational and very friendly. My journey was highly rewarding and at the same time memorable which I will always cherish. I am thankful to everyone for making me a competent scientist and I highly recommend YRC as a great place for anyone who wants to pursue a career in research."

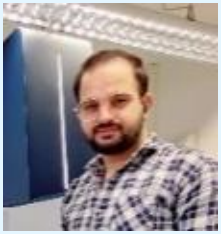
"I have seen YRC and me growing together!!

First, I was afraid, doubted, and finally believed and accomplished. I joined YRC in 2015 with lots of doubts and questions about the career in my mind. However, eventually, it was replaced with scientific questions as I progressed towards my success and gaining scientific knowledge. I have learned a lot from YRC scientifically and learned to take administrative responsibilities, teaching and leadership.The journey was not smooth from scratch to end of my PhD, so many ups and downs came and went away during this journey, and many research awards, accolades, and articles were bagged. Nevertheless, it was impossible without my Guide's support, Dr Bipasha Bose and Dr Sudheer Shenoy P. We scientifically disagreed but worked and spent excellent time together to achieve our goals. One more person, her motherly attitude, always supported me, no one but Dr Rekha PD, our deputy director of YRC. I always loved being in Mangalore, the best city to live in, with good people, food and enriched culture.I continued studying breast cancer in my post-doctoral research work and investigating the most promising therapeutic target for Triple-negative breast cancer by CRISPR-Cas9 technique. As a whole, YRC gave me an excellent opportunity and platform to grow as a young scientist, which helped me to establish my career in this exciting field of study."

Utsav Sen (PhD, 2021)
Post-Doctoral Research Fellow,
Dept of Molecular Cell Biology,
Weizmann Institute of Science
Rehovot, Israel

Shaheer Koniyan (PhD, 2021)
Postdoctoral Research Fellow,
University of Texas, USA

"I am proud to identify myself as a YU-YRC alumnus. The center that gives you more strength to face what lies ahead. What you learn here is not just research; you will get a second home. I should give full credit to my supervisor Dr. Divya Lakshmanan and the Directors' Prof. Dr. Rekha PD and Prof. Arun Bhagawath."



Saketh Kapoor (PhD, 2020)
Institute of Tissue Engineering & Regenerative Medicine (iTERM)
Helmholtz Zentrum München, Germany

"*It's science or nothing*!"
"Research career has been my choice and not a sheer chance. With a burning desire to get a doctoral degree, I enrolled for a PhD at the Yenepoya Research Centre. The eclectic campus and state of the art instrumentation dedicated for research appealed to me immediately. There was hardly any looking back then! Warm hearted people, fantastic medical facilities and a breathtaking view of the Arabian sea – life could not get better!
The constant motivation rendered by Prof. Rekha helped me strive each day to be a better version of myself. I had the opportunity of learning to operate the best of mass spectrometers and leverage bioinformatics for deeper understanding of biology. With this, I learned to venture into uncharted waters. What more – it even inspired and motivated me to further pursue my career in the field of mass spectrometry-based proteomics. Sometimes the learning came through participation in administrative activities. Silently this helped me sharpen my decision-making skills. If I were to put my finger on one favorite memory, the weekly departmental presentations will top my list. It sets apart the standard of the students against many others. *'My dear alma mater, I remain immensely grateful to you for what you have given me'."*

Nikhil Singh
MSc Bioscience (2019-2021)
Research Trainee, Department of Cell Biology, Himalaya Center for Excellence, Himalaya Wellness Company, Bengaluru, India

Beaches, unpredictable rain, humidity! Mangalore is quite a nice place to live and explore."
"My MSc course at YRC has given me a quality research environment. The curriculum is top-notch, with exceptional practical learning for a new graduate. From well-qualified faculties to supportive research scholars to quality research facilities, YRC has gotten all things. My summer internship at YRC was the starting point of my research career. In addition to this, my master's dissertation project at YRC was a complete mix of research skills, soft skills, and transferrable skills that have shapedme to grow in my career"

"A prepared mind knows how to grab the opportunity."
"I came to YRC as a naïve, under-confident, MSc 'student' with uncertain goals in life. Mangalore, a new city, had, new culture, a new language, and I was 'lonely'! But, from the very first day in Mangalore, YRC started talking to me. My primary guide was Sudhakar Sir, and Rekha Madam became my 'guru', my go-to person to seek motivation and optimism. My days in YRC brought in a tremendous amount of positivity in me and eventually 'prepared' me. We were the first batch of MSc Biosciences at Yenepoya, and YRC had already promoted my state of mind from a 'student' to a 'researcher'! We were allowed to do any easy or sophisticated experiments, ask n number of questions, and utmost importantly, we were let to participate in their Academic chatter. I remember how our first practical was "how to handle the pipette" by Dr Saketh Kapoor, and over the years I realize how pivotal that practical is to any career in this field.I was not taught by lecturers, but by SCIENTISTS. I notice the difference and it's because of each one of them that I stand here today. I am extremely proud to be a part of YRC and look forward to contributing all I can to the department."

Abhipsa Panda,
MSc Bioscience (2018-2020)
Polish Academy of Sciences
Olsztyn, Poland

Mr Suhail CP
St Aloysius, PU College,Mangalore
International Science Fair Winner

"Feeling extremely happy to receive the recognitionof naming a minor planet after my name. This wouldn't have been possible without the support of Ms. Sindhu Priya ES, Dr Sudhakaraprasad K, and Dr Rekha PD"

"I'm a Post Graduate student in the department of Pediatric Dentistry. As the part of our curriculum, I took up a research on how efficient is an ayurverdic mouthwash as an alternative. At the very beginning of my study, I was really worried about how to go forward with this as I have no experience in the microbiology field. Yenepoya Research Centre (YRC) was a huge help for me in doing my thesis. Dr Shastry RP sir and Aparna Ma'am are my mentors who supported me and helped me understanding every aspects of my study and they were not hesitant to explain my small doubts. YRC is facilitated with state of art equipments which support any research projects. Monica ma'am, who is a PhD aspirant, helped me with the procedures in the lab. I'm so grateful that YRC supported me in great amount for my thesis. YRC has enlightened up my inner 'researcher' and I loved to see the progress of my study. YRC hold immense oppurtunities to explore and learn"

Dr Raena Simon
PG, Dept of Pediatric and Preventive Dentistry Yenepoya Dental College

Haritha K
MSc Biotechnology
Kannur University
MSc Internship (Dec 2019 to Mar 2020)

"I am glad to share that I had completed my post-graduation project from Yenepoya Research Centre, Mangalore, under the guidance of Dr Divya Lakshmanan M. The journey was full of learnings, opportunities, and personal growth. From there I started loving research and decided to choose my career. Now I am working as a Clinical Research Co-ordinator, Department of Nephrology, Medical College, Kozhikode, Govt of Kerala. I am thankful to YRC for providing me a good platform to learn a lot as well as to open my eye."

19. Certifications

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Certificate of Compliance

This is to Certify That Management System of

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YENEPOYA RESEARCH CENTER

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"Research and consultancy services to academia and industries/start-ups"

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Harshavardhan Reddy
(Director)

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(Director)

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LSSSDC

CERTIFICATE OF ACCREDITATION

Accreditation No.: LFSVTAF18123 Certificate No.: 00125/1

LSSSDC is pleased to declare

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as Accredited Vocational Training Partner

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QUALITY CONTROL BIOLOGIST - LFS/Q2301

Ranjit Madan

Chief Executive Officer

Life Sciences Sector Skill Development Council

13,Palam Marg,3rd Floor, Vasant Vihar, New Delhi-110057

www.lsssdc.in

Issued on: 17-05-2018

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LSSSDC is pleased to declare

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University Road, Deralakatte, Manglore - 575018, Karnataka

as Accredited Vocational Training Partner

This certificate permits following Qualification Pack(s):

RESEARCH ASSOCIATE - PRODUCT DEVELOPMENT/SYNTHESIS/MED CHE - LFS/Q0505

Ranjit Madan

Chief Executive Officer

Life Sciences Sector Skill Development Council

13,Palam Marg,3rd Floor, Vasant Vihar, New Delhi-110057

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Issued on: 17-05-2018

Validity: 16-05-2019

Skill India

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is an active member of

Life Sciences Sector Skill Development Council

from 07-Oct-2020 to 06-Oct-2022

Ranjit Madan

Chief Executive Officer

Member Id: LFM/2020/21

(Membership does not qualify for Affiliation)

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Trainee

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Website: www.yenepoya.res.in

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YENEPOYA RESEARCH CENTRE

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