

Profile of Dr. B E Rangaswamy



Dr. B E Rangaswamy
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Brief Profile of Dr. B E Rangaswamy

Dr. B.E. Rangaswamy presently working as Registrar Evaluation, Visvesvaraya Technological University, Belagavi. He was the Dean, Research & Development and Professor & Head at Department of Biotechnology, Bapuji Institute of Engineering & Technology, Davangere. He has completed his Masters in 1995 and Ph.D (2001) from Bangalore University. He has obtained higher level Training in Bacteriology and Air sampling techniques from **Environmental Diagnostic Laboratory, Florida, USA in 2008** and attended **Course on Aerobiology** organized by European Aerobiological Association jointly with International Aerobiology Association (IAA) at **Roskilde University Holbaek, Denmark** during July 2011.

Rangaswamy delivered talk at Jagiellonian University, Krakow Poland in 2012, University of Western Sydney Campbell town Medical School, Australia in 2014 and University of Parma, Italy in the year 2018. He has published more than 70 research papers in national/international Journals and proceedings, completed 25 minor Research projects and 9 Major Research projects funded from Department of Biotechnology, Govt. of India, Department of Science & Technology, Govt. of India and All India Council for Technical Education, New Delhi, Visvesvaraya Technological University, Belagavi, Vision group for Science & Technology, Govt. of Karnataka, Under NAIN-Govt of Karnataka to the tune of more than 1.75 crore. Currently he has one major ongoing research project.

Dr. Rangaswamy served as the Chairman and member of Board of Studies in Biotechnology, at Visvesvaraya Technological University, Belgaum, member of BoS for UG programme at University of Mysore and Chairman, Board of Studies in Biotechnology, Davangere University. He has also served as member and Chairman of BoE at VTU and for other universities and autonomous institutes affiliated to VTU, Belagavi. He has also served as Academic Senate member of Visvesvaraya Technological University, Member of **Aerobiology committee of Asia Pacific Association of Allergy, Asthma and Clinical Immunology (APAAACI)**. He is currently the **Joint Secretary, Society for Cytologists and Geneticists in India, (2016-22)**, **Elected Executive council Member of Indian Society for Technical Education, New Delhi (2020-24)**. Most importantly he has been inducted as member working committee as Member at large for **International Aerobiological Association (IAA), Poland 2018-22**. He was the Chief Editor of the journal "**Indian Journal of Aerobiology**" between 2010 to 2017, and having membership in many professional bodies. He has chaired number of technical sessions in national and international conferences. He has also served as Member and Chairman of Local Inspection Committee of VTU, and Visited Institutes/university as NAAC peer team member (Assessor)

Professor Rangaswamy has been teaching Microbiology, bioethics and bio-safety, Cell biology and Genetics, Clinical biotechnology for UG (Biotechnology) and Environmental biotechnology PG (Environmental Engg). Prior to his joining to BIET he taught Plant

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Taxonomy, Palynology and Mycology for post graduate students of Botany for six years at Department of Botany, Bangalore University Bangalore. Six of his **students obtained PhD** from VTU and currently three students working for PhD programme under his guidance on different aspects of Biotechnology, Microbial Cellulose and Aeroallergens. He has served as examiner for Ph.D. thesis submitted to Osmania University Telangana, Visveshwaraya Technological University, Belgaum, MGR University Tamilnadu, RTMN University, Nagpur, and Amaravathi University, MH. Rangaswamy has applied for **Indian patent**.

He has written number of articles in newspapers, written a book on Beekeeping and Vermicomposting in Kannada, and delivered more than 110 public talks. He is a recipients of **PH Gregory National Award** instituted from Indian Aerobiological Society (IAS), Kolkata in the year 2007, Best Project Award from Karnataka State Council for Science and Technology (KSCST) Bangalore for the year 2011, 2018, 2019 and **Best paper presentation award** jointly with his student (cash award to student) from Karnataka State Technology Academy, Govt. of Karnataka in 2012, **Received Rajyothsava Award from District Administration Davangere in 2017, Davangere Siri Award** from Lions International 317C in the year 2017, and **Rajaram Bapu National Award for Promising Engineering Teacher for Creative work done in Technical Education from Indian Society for Technical Education, New Delhi in the year 2018**.

He has received Certificate of Appreciation from Rotary India Literacy Mission, Kolkata for his outstanding contributions in training more than 8000 teachers of Primary and High school under TEACH as a Distract Literacy committee Chair (DLCC) of Rotary International District 3160, Certification of Appreciation from Royal Society of Chemistry, (Founded by Dr. Yousaf Hammed, founder of Cipla). Dr Rangaswamy visited USA under Group Study Exchange Programme and received honors with **Certificate of Appreciation by Governor of State Rhode Island and Providence Plantations, USA on 22nd April 2008**, received honor with **Certificate of Appreciation by Speaker of the Commonwealth of Massachusetts State House, USA on 14th April 2008** and **Certificate of appreciation from Mayor of Quincy, Boston, USA and Mayor of New Bedford, MA USA**.

He is a member of Rotary club Davangere Midtown, served as its secretary, President, Asst. Governor, and Dist. Teacher support Chair, District Literacy Committee Chair (DLCC) and Dist. Wash in Schools Committee chair for Rotary International Distract 3160. Through Rotary and as president of Karnataka Rajya Vignana Parishath (KRVP Scientific society by Govt. of Karnataka/DST supported) Davangere District conducted number of Programme which benefit common man and the society. He has visited **USA, Australia, Malaysia, France, Sweden, Denmark, Germany, Poland, Italy and Switzerland** on educational & research assignment. Since 1989 he has been donating blood regularly and so far he has **donated blood 27 times** as of March 2018.

PROFILE OF Dr.B.E.RANGASWAMY

Registrar Evaluation

Visvesvaraya Technological University, Belagavi-Karnataka
Executive Council Member, Indian Society for Technical Education, New Delhi
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- 1. NAME AND DESIGNATION WITH FULL ADDRESS** Dr. B.E.Rangaswamy ^{Ph.D FIAS}
Registrar Evaluation
Visvesvaraya Technological University,
Belagavi-Karnataka -590018
- 2. NAME OF THE INSTITUTION** Visvesvaraya Technological University, Belagavi
- 3. GENDER** Male,
- 4. WHETHER DIFFERENTLY ABLED (YES/NO)** No
- 5. ACADEMIC QUALIFICATION (Under graduate onwards)**

SN	Degree	Year	University/Institution
1	B.Sc.	1993	Bangalore University
2	M.Sc.	1995 (Life Sciences)	Bangalore University
3	PhD	2001 (Life Sciences)	Bangalore University
4	Training on Aerobiology & Bacteriology in 2008		Environmental Diagnostic Lab, Florida USA
5	Course on Aerobiology in 2011 by IAA		@ Roskilde University, Denmark

- 6. PH.D. THESIS TITLE, GUIDE'S NAME, INSTITUTE/ORGANIZATION/UNIVERSITY, YEAR OF AWARD.**

PhD Thesis title: "Melittopalynological Investigation of Karnataka with particular reference to Dakshina Kannada and Udupi district"

Guide Name: Dr. Shripad N Agashe, Emeritus Professor (Retd), Bangalore University, Bengaluru, and the **Year of Ph.D degree Award: 2001**

- 7. SPECIALIZATION** Aerobiology, Bio-pollution, Environmental Science,
- 8. AREAS OF EXPERTISE** Aerobiology, Microbiology, Biodiversity, Bioethics & Palynology
- 9. WORK EXPERIENCE (IN CHRONOLOGY)**

SN	Positions Held	Name of the Institute	From	To
1	Faculty(console)	Department of Botany, Bangalore University	1997-98	2003-04
2	Lecturer/Project Coordinator	Surana College, Bangalore	2003-04	2005-06
3	Asst. Professor	Bapuji Institute of Engineering & Technology	2006	2010
4	Professor	Bapuji Institute of Engineering & Technology	2010	Till date
5	Dean R&D	Bapuji Institute of Engineering & Technology	2014	2020 Dec
6	Registrar Evaluation	Visvesvaraya Technological University, Belagavi, Karnataka	2020 (Dec)	Till date

10. PROFESSIONAL AFFILIATION

Member/ Chairman of Boards OR Committee

(Like Member, Board of Studies, Faculty of Engineering, Academic Council, Senate, Syndicate, State Level Committees, National Level Committees, Governing Bodies of Professional Societies etc.)

S.N	Position held	Member OR Chairman	Period
1	Board of Examination in Biotechnology under Visvesvaraya Technological University, Belgaum	Member	2007-08, 2010-11, 2018-19, 2019-20
2	Board of Examination in Biotechnology under Visvesvaraya Technological University, Belgaum	Chairman	2011-12 & 2014-15
3	Board of Examination in Nanotechnology , Visvesvaraya Technological University, Belgaum	Member	2015-16
4	Board of Examination & Board of Studies in Biotechnology, Karnataka State Open University, Mysore	Member	2015-16
5	Board of Studies in Biotechnology for both (UG and PG) Davangere University	Chairman	2012-15
6.	Board of Studies in Biotechnology (UG & PG), Visvesvaraya Technological University, Belgaum	Chairman	2019-21
7	Board of Studies in Biotechnology (UG & PG), Visvesvaraya Technological University, Belgaum	Member	2013-16
8	Board of Studies in Biotechnology (UG), University of Mysore, Manasagangothri, Mysore	Member	2013-16
9	Joint Secretary, Society of Cytologists, Geneticists in India,	Secretary	2017-21
10	Executive Council Member, Indian Aerobiological Society	EC-Member	2007-2009, 2009-17
11	Aerobiology Committee of Asia Pacific Association of Allergy, Asthma and Clinical Immunology (APAAACI)	Member from India	2010-20
12	Indian Society For Technical Education (ISTE)	Life Member	2006 onwards
13	Karnataka Rajya Vignana Parishath, Davangere District.	President	2017-2020 2020-2023
14	Davangere Science Centre	Secretary	2010-till date
	OTHERS		
15	Journal of Indian Aerobiology Published. From IAS Kolkata	Chief Editor	2012-2017
16	Journal of Cytology and Genetics	Member Editorial Committee/EC	2017-till date
17	Davangere District Parisara Mitra School Programme	Advisor	2010-2020
18	International Association for Aerobiology, Hq. Krakow, Poland	Member at Large,	2018-22 Nomination at Italy
19	Indian Society for Technical Education, New Delhi	Elected Executive Council Member	2020-2024
20	Visvesvaraya Technological University, Belagavi	Academic Senate Member	2019-20 December
21	Publication Committee of ISTE, New Delhi	Member	2020-till date
22	Board of Examinations to Sanjay Ghodawat	Member	2021 to till date

University, Kolhapur MH and Punyashlok Ahilyadevi Holkar Solapur University, Solapur MH		
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11. SPONSORED RESEARCH PROJECTS

MAJOR PROJECTS: 10, MINOR PROJECTS :25

LIST OF MAJOR PROJECTS SANCTIONED/COMPLETED AS PRINCIPAL INVESTOGATOR/COORDINATOR

SN	Title of the Project	Name of the Funding Agency	Amount Sanctioned/ generated	Project Duration
1	“Socio Economic Development Of Through Vermicomposting And Beekeeping In Davangere District”	DBT, Govt. of India	13.20 lakhs	2008-11
2	Fermentative Production of Microbial Cellulose”	Department of Science and Technology, Govt. of India.	22.40 Lakhs	2012-15
3	Atmospheric Microbial Diversity With Particular Reference To Allergic Pulmonary Infections In Davangere	Department of Science and Technology, Govt. of India.	21.20 lakhs	2012-15
4	Modernization of Genetic Engg. And Immunotechnology Lab	AICTE, New Delhi	15.74 lakhs	2013-14
5	Exploration of Bacteria as an Alternative Source for the Production of Cellulose	RPS-AICTE, New Delhi	12.65 Lakhs	2013-17
6	Airborne Bio-contaminants and their Association With Asthma, Respiratory Infections And Genetic Pre-Disposition	DBT, Govt. of India	26.50 lakhs	2014-18
7	Diversify bacterial and fungal aerosols prevailing in brachio-vesicular infections	VGST, Govt. of Karnataka (With student as mentor)	04.00 lakhs	2014-15
8	Development of biodegradable, cost effective, eco-friendly and sanitary napkins with deodorizing properties.	Sanctioned under NAIN Scheme by Dept. of IT, BT and S&T (Govt. of Karnataka)	1.79 Lakhs	2018-19
9	Preliminary Investigation of Bio-Diesel from atmosphere of Davangere city with particular reference to allergic infections in human	KSPCB, Davangere Govt. of Karnataka	0.20 Lakhs	2018-19
10	By doing Consultancy: culture identifications and water testing and microbial analysis, soil microbial analysis department has earned a total of		1.60 lakhs	2011-17
11	Microbial cellulose a Natural Biopolymer: Production and its biomedical application	VGST, Govt. of Karnataka	20.00 lakhs	2019-22
12	Designing the low cost isolation chambers for COVID 19 patients with effective filters” Under TEQIP	Visvesvaraya Technological University, Belagavi	2.83 lakhs	2020
13	Development of Pesticidal Vermiwash from Selected Plant Materials.	Sanctioned under NAIN Scheme by Dept. of IT, BT and S&T (Govt. of Karnataka)	2.56 Lakhs	2021-22

14	Immunological maps in the community: An epidemiological investigation tool for Covid 19	Proposal submitted to SERB-Govt of India	18.75 Lakhs	Waiting for the results
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MINOR STUDENTS PROJECTS SANCTIONED (by KSCST, VGST under Spice/Institute, VTU)
List of minor/students projects sanctioned from Funding agencies

SN	Title of the Project	Name of the Funding Agency	Amount Sanctioned	Project Duration
1	Exploration of bacteriophage therapy against the causative agents for human skin infections	Karnataka State Council for Science & Technology (KSCST)	5000/-	2006-07
2	Preliminary investigation on aeromycofloral studies on some libraries in Davangere	Karnataka State Council for Science & Technology (KSCST)	6000/-	2007-08
3	Aeromycofloral studies of some occupational Sites in Davangere city	Karnataka State Council for Science & Technology (KSCST)	5000/-	2008-09
4	Biotechnological process of composting and field evaluation studies	Karnataka State Council for Science & Technology (KSCST)	7000/-	2008-09
5	Slow Pyrolysis of Kikar for generation of solid, liquid and Gaseous fuels	Karnataka State Council for Science & Technology (KSCST)	4500/-	2008-09
6	“Anti-cancer activity of some plants.	Karnataka State Council for Science & Technology (KSCST)	6000/-	2009-10
7	Production of Ethanol from beetroots	Karnataka State Council for Science & Technology (KSCST)	5000/-	2010-11
8	Evaluation of Hypoglycemic and anti-diabetic activities from selected plants	Karnataka State Council for Science & Technology (KSCST)	5000/-	2011-12
9	Utilization of crude glycerol obtained from waste fish oil in the production of 1,3-propanediol	Karnataka State Council for Science & Technology (KSCST)	5000/-	2011-12
10	“ <i>Swieteniamahagoni</i> - The potential source for the production of biodiesel	Karnataka State bio-fuel Development Board(KSBDB)	9000/-	2011-12
11	Bioethanol production from Eupatorium –a weed	Vision Group for Science & Technology (Spice project)	30000/-	2011-12
12	Phytochemical vitamin-C and antioxidant evaluation of some underexploited fruits	Karnataka State Council for Science & Technology (KSCST)	4500/-	2013-14
13	Phytochemical screening, Anti-microbial Anti-oxidant and anti-	Karnataka State Council for Science & Technology	5500/-	2013-14

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	cancer activity of <i>Plectranthus amboinicus</i> and <i>Bacopa monnieri</i>	(KSCST)		
14	Optimization of ethanol production from fruit waste	Karnataka State Council for Science & Technology (KSCST)	5500/-	2013-14
15	Value added utilization of cured glycerol	Karnataka State bio-fuel Development Board(KSBDB)	15000/-	2013-14
16	Farmer and eco-friendly approach to Target bacterial blight of pomegranate	Karnataka State Council for Science & Technology (KSCST)	5000/-	2015-16
17	Effect of acoustic waves on notorious bacteria causing various diseases	Karnataka State Council for Science & Technology (KSCST)	4000/-	2016-17
18	Maize cob as a recycled agro waste- a feasibility study	BIET, R&D cell	4000/-	2016-17
19	Effect of acoustic waves on notorious bacteria causing various diseases	BIET, R&D cell	4000/-	2016-17
20	Development of biodegradable eco-friendly and cost effective sanitary napkin	Karnataka State Council for Science & Technology (KSCST)	6000/-	2017-18
21	Development of biodegradable eco-friendly and cost effective sanitary napkin	Karnataka State Council for Science & Technology (KSCST)	10000/- (upgrading the project)	2018-19
22	Microalgae as a source of mycosporines to explore as a Natural anti-cancer and sunscreen agent.	Karnataka State Council for Science & Technology (KSCST)	8000/-	2018-19
23	Isolation and rapid plastic degrading bacteria from dumped soil areas in Davangere.	BIET, R&D cell	6000/-	2018-19
24	Bio-composites: A comparative study	BIET, R&D cell	6000/-	2018-19
25	Production of vinegar from millets	Karnataka State Council for Science & Technology (KSCST)	5000/-	2019-20

12. As a coordinator Completed Six National Environmental Awareness Campaign (NEAC) programme from 2009-10, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15 sponsored by Ministry of Environment and forest and Karnataka Rajya Vignana Parishath (KRVP), Bangalore.

13. UG/PG PROJECTS GUIDED:

So far, a total of 56 UG and 2 PG Final Year Student Projects in the field of Bioenergy, Biofuels, microbial diversity, Bio-composites, Ethno botany, Grass pollen flora related student projects were guided.

14. RESEARCH PAPERS PUBLISHED

- Research Papers Published: 57
- Research papers/Project reports in Proceedings: 20
- **Articles in Magazine/Newspapers: 24 (on eve of NSD every year)**
- **Pollen and Spore calendar weekly Reports published in Times of India under the caption “BANGALORE POLLEN WATCH” 236 weekly reports. (1996-2003)**

Ten Best Research papers Published from 2012 onwards

1. **Rangaswamy B.E**, Francis Fernandes, K.K. Prakash, Ravishankar B.V. & Shanmukhappa S. **2012**. Occurrence of microbes causing respiratory ailments in the Garden of Davangere. *Indian Journal of Allergy, Asthma and Immunology*. Volume 26 (2), 61-65 (**Kluwer Publishers**, indexed with DOAJ, IndMed etc). **Citations: 02**
2. **Rangaswamy B.E**, Francis Fernandes, K.K. Prakash and Manjunath N.S. **2013**. Variability in airborne bacterial and fungal population in the tertiary health care centre. *Aerobiologia* -**Springer Publishers** Vol 29 (4): 473-479. (DOI 10.1007/s10453-013-9297-z) (**Impact factor 2.18, h-index 49**) **Citations: 22**
3. **Rangaswamy B.E** Vanitha K.P. and Basavaraj S Hungund **2015**. Microbial Cellulose Production from Bacteria Isolated from Rotten Fruit. *International Journal of Polymer Science* Article ID 280784, 8 Pages. **Hindwai Publishers**. **Impact factor 2.642** (<http://dx.doi.org/10.1155/2015/280784>). **Citations: 88**
4. **Rangaswamy B.E.**, Vinay Kumar J., and Jayasimha V.L., Rajesh B P **2016**. Role of HLA-DRB1 typing in studying the genetic predisposition of selected population in Davangere. *Indian Journal of Aerobiology*, ISSN: 0971-1546 vol 28, no 1&2, pp: 63-68. **NAAS Impact factor: 2.7**
5. Sheryll Dsilva, Ashish Prabhu, Suhas B.C, **Rangaswamy B.E** and Venkata Dasu Veeranki **2017**. Biosorption of hexavalent chromium by free and immobilized dead *Sargassum* sp: A study on isotherms and kinetics. *Journal of desalination and water treatment by Tylor and Francis*. Vol 62 (2017) pp: 335-345. **Impact Factor-1.15** (<https://doi.org/10.5004/dwt.2017.009>) **Citations: 02**
6. Amruta Patil-Joshi, **Rangaswamy B E** and Anjali Apte-Deshpande **2021**. Paper based PCR method development, validation and application for microbial detection. *Journal of Genetic Engineering and Biotechnology, published by Springer-Open Access* (**Impact factor 3.82, h-Index 25**) (<https://doi.org/10.1186/s43141-020-00110-1>).
7. Pavan Kumar M.P., Poornima B., Nagendraswamy H.S.,Manjunath., **Rangaswamy B.E.**, Varsha M., Vinutha H.P. **2021**. Image Abstraction Framework as a Pre-processing Technique for Accurate Classification of Archaeological Monuments Using Machine Learning Approaches. *SN COMPUT. SCI.* 3, 87 (2022) By **Springer Nature Journal** (<https://doi.org/10.1007/s42979-021-00935-8>). **Impact factor 1.29, h-Index 25**
8. Pavan Kumar M.P., Poornima B., Nagendraswamy H.S.,Manjunath., **Rangaswamy B.E.**, **2021**. Image-Abstraction Framework as a Preprocessing Technique for Extraction of Text from Underexposed Complex Background and Graphical Embossing Images. *International Journal of Distributed Artificial Intelligence (IJDAI)* 13(1) pages 35, DOI: <http://10.4018/IJDAI.2021010101> (*Indexed by: DBLP, IET indexing*)
9. Pavan Kumar M.P., Poornima B., Nagendraswamy H.S.,Manjunath., **Rangaswamy B.E.** **2021**. HDR and image abstraction framework for dirt free line drawing to convey the shapes from blatant range images. *Multidim Syst Sign Process* by Springer Nature. Total 58 pages

<https://doi.org/10.1007/s11045-021-00803-x> Impact factor 2.03, .

10. Manjunth Nandihalli Shetru., Maribasappa Karched., Dayanand Agsar., **Rangaswamy B E., 2022.** **In vitro lytic efficacy of bacteriophages against multidrug-resistant pathogenic bacterial species isolated from pyogenic skin infections.** *Indian Journal of Microbiology Research*, Vol 9 (1) pp 1-10
<https://doi.org/10.18231/j.ijmr.2022.003>

15. BOOKS WRITTEN AND BOOK CHAPTERS CONTRIBUTED

1. Chapter No: 12- Probiotic Enzymes in Biodegradation and value-added Products.

Authors: Prakash Kenchappa Karegoudru., **Rangaswamy Bidarakere Eswarappa** and Gurumurthy Dummi Mahadevan

Name of the Book: Enzymes for Pollutant Degradation.

Publisher: **Springer Verlg, Singapore**

Publication date: **07th May 2022**

2. Book in Kannada: Erehulu Gobbara mathu Jenu Krushienda Arthika Pragathi- Raithara kaipidi

Author: B E Rangaswamy

Publisher: Bapuji Educational Association ® with Support from Department of Biotechnology, Govt of India. **Published in 2010.**

3. Title of the Book: Biology Vol-1 and Vol-2 (for PUC biology Students)

Authors: Dr. M J Sundaram, R Ramakanth, Chandrashekarappa B R & **Dr. B E Rangaswamy**

Publisher: Interline Publisher Bangalore , 1st Edition 2005, 2nd edition 2009

16. DETAILS OF PATENT

Dr. B.E.Rangaswamy and Vanitha K.P. (Research Student) filed patent Application in February 2016 on “**Natural Source Media for the Production of Bacterial cellulose**”
Application No: 201641004194. Reply for the 1st report under progress

17. PAPER PRESENTED IN NATIONAL /INTERNATIONAL SEMINARS/SYMPOSIA FROM 2011-12 ONWARDS (Total: 42)

- Total number of presentations in **National Conference is 40**
- Total number of Presentations in **International Conference is 8.**
- Chaired number of sessions during national and international conferences, worked as moderator and sectional committee sub Chair (Moderator during Science congress at Bangalore)
- **Total number of invited lecture/public lectures delivered are around 110 at Various Universities and institutes both in India and abroad)**

Few names of the Universities where lectures have been delivered.

- Jagiellonian University, Krakow Poland
- University of Western Sydney Campbell town Medical School, Australia
- University of Parma, Italy
- Environmental Diagnostic Laboratory, Clearwater, Florida USA

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- Visva-Bharathi, Santhiniketan, West Bengal
- Amravati University, Amravati MH
- Osmania University, Hyderabad
- University of Kerala, Trivandrum
- Manipur University, Imphal
- Bose Institute, Kolkata
- Institute of Science, Nagpur
- Tumkur University, Tumkur
- Bangalore University, Bangalore
- Visvesvaraya Technological University, PG Centre Gulbarga
- Reva University, Bangalore
- Davangere University, Davangere
- Bangalore Institute of Technology, Bangalore
- Siddaganga Institute of Technology, Tumkur
- UBDT College of Engineering, Davangere
- S.S. Institute of Medial Sciences and Research Centre, Davangere
- Chaired session on” **Academia industry Interaction:** during 107th Indian Science Congress held at UAS, Bengaluru
- Bapuji Dental College and Hospital, Davangere
- College of Dental Science, Davangere
- Breakthrough Science Society of India
- J. J. M. Medical College and Hospital, Davangere etc.
- Govt. College of Engineering, Hassan
- Basavakalyan Engineering College, Basavakalyan
- Angadi Institute of Technology and Management, Belgaum and many more

18. NUMBER OF SHORT- TERM COURSE, WORKSHOPS, FACULTY DEVELOPMENT PROGRAMME’S, CONFERENCES ORGANISED/CONDUCTED AS CHAIRMAN/COORDINAOTR : 43

SN	Events (symposiums/Seminars/workshops/FDP’s organized)	Date
1	Biochemexel– 2005 A National Symposium for students	24-25 November 2005
2	National Seminar on Trends in Biotechnology	11 November 2006
3	National Seminar for Students – Medibio-chemexcel – 2007	13 April 2007
4	Bio-nanoinformatics-2008; National Symposium on Bio-nanotechnology and Bioinformatics	3 March 2008
5	National Seminar on Recent Trends in Nanotechnology	20 September 2008
6	Seminar on Biodiversity Conservation and Bio-prospection	20 October 2008
7	Seminar on Opportunities in Biotechnology	13 November 2008
8	National Students Symposium - Nithanth-2009	17-18 April 2009
9	Environmental Day – Special lecture Programme on Conserving Nature	13 June 2009
10	National level symposium on Nanobiotech 2009- Applications in Medicine	28-30 November 2009
11	Training programme on Vermicomposting and Bee keeping for farmers	10-15 March 2010
12	National Students Seminar - Biosatum -2010	30 April 2010

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13	Recent Trends in Water Quality and Sustainable Management (To commemorate 150 th Birth anniversary of Sri M Visvesvaraya)	15-16 September 2010
14	National Seminar on Occupational Health – in association with JJMC, Davangere.	28-29 September 2010
15	16 –NCA 2010 - 16 th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine	19- 21 November 2010
16	FDP on Re-engineering of Environmental Impact Assessment	5-7 March 2011
17	National Seminar on Conservation of Medicinal Plants	31 March 2011
18	Coordinator -DST – Subject Expert committee meeting of Chemical sciences under WOS-A Scheme	28-29 May 2011
19	Coordinator- DST-Subject Expert committee meeting of Earth and Atmospheric Sciences	July 18-19, 2011
20	Faculty Development Programme on NANOTECHNOLOGY - in association with VTU, Belgaum at VTU	11 th - 15 th April 2012
21	Environmental Awareness Programme at Kadadakatte – in association with Karnataka RajyaVijnanaParishath and MEoF.	5 June 2012
22	Seminar on Biotechnology in Human Welfare	13-14 February 2013
23	Environmental Awareness Programme –Conservation of Biodiversity with special reference to Medicinal plants and Fruit bearing trees	5 -6June 2013
24	Research Opportunities in Biotechnology and Allied Studies	19-20 October 2013
25	Distinguished scientist talk on ‘Neglected Nature’ by Padmabhushana Dr. Anil Prakash Joshi.	31 January 2014
26	Academia and Industry Integration in Biotechnology	7-8 February 2014
27	Recent Trends in Biological Sciences	8 October
28	Hands on workshop on Techniques in Biotechnology	19- 24 January 2015
29	Teachers Training Programme on comprehensive Chemistry	12-13 December 2015
30	Hands-on workshop on Biotech Industrial Job Training	18-24 January 2016
31	Workshop on Entrepreneurship Awareness	24-26 August 2016
32	Workshop on Mathematics for High School Teachers	15 -16 November 2016
33	Workshop on Applied Biotechnology- Hands-on.	16 -22 2017
34	Workshop on Plant Taxonomy (INSA & NAS supported)	27 -28 January 2017
35	Invited talk on Agro Waste- What needs to be done?	29 August 2017
36	World Ozone day – Observed in association with Karnataka Science and Technology Academy, Bangalore	16 September 2017
37	Invited talk on - India’s Biosphere Dissection Using Genome Sequencing Technology	25 November 2017
38	Hands-on workshop on Trends in Biotechnology	15-21 2018
39	Lecture Series on - Strides in Biotechnology	19 February 2018
40	National conference on “New Trends in Bio-Technology & 14 th Conference of Society of Cytologists and Geneticists	6- 8 March 2019
41	Bio-Entrepreneur’s Summit – Interactive Conglomeration of young entrepreneurs and students and faculty	7 March 2019
42	Hands on Workshop on Techniques in Biotechnology	9-15 March 2020
43	Webinar on Role of Biotechnology in Biodiversity conservation	22-23 July 2020

19. PH. D. GUIDANCE (Recognized Guide from Visveswaraya Technological University, Belgaum)

SN	NAME OF THE STUDENT	RESEARCH TOPIC	STATUS
1	Prakash K.K (USN:4BD09PGN01)	Aerobacteriological Investigation of various occupational sites of Davangere.	Degree Awarded in 2017
2	Francis Fernandes (USN:4BD09PGN02)	Aerobiological investigation of various occupational sites of Davangere with particular reference to fungi	Degree Awarded in 2017
3	Anil Kumar M.R (USN:4BD08PGN01)	Synthesis, Characterization and Biological Studies of Some Transition Metal Complexes”	Degree Awarded in 2017
4	Yogitha Seema A.M. (USN:4BD11PGN05)	Microbial diversity with particular reference to allergic pulmonary infections in Davangere	Degree Awarded in 2018
5	Vanitha K.P. (USN:4BD12PGN01)	Fermentative production of microbial cellulose	Degree Awarded in 2018
6	Vinayakumar J (USN:4BD16PGJ01)	Role of Aspergillus species as allergen in selected population of Davangere and its Genetic predisposition	Degree Awarded in 2021
7	PatilAmrutaAkaram (USN:4BD17PGA03)	Development of paper based PCR method and its application in detection of microbes from different sources	Thesis will be submitted in May 2022
8	Basavana Gowda M G (USN:4BD20PBT01)	Impact of Paramaragat Krishi Vikas Yojana on Maintaining sustainable Livelihood security of farmers in Davangere district	Under progress
9	Vasudeva Nayaka K B L USN:4BD20PBT02	Extraction of Biofuel from Chicken Feather Meal by Enhanced and optimized Trans-esterification process and efficiency Investigation of alternative Energy resource	Under progress

20. AWARDS AND ACHIEVEMENTS

1. Recipient of P.H. Gregory Award instituted by Indian Aerobiological Society Kolkata in 2007
2. Outstanding Project of the Year award (Three times) from Karnataka State Council for Science and Technology (KSCST-DST) – Received for the Year 2012, 2018 and 2019.
3. Joint paper by Prakash and Rangaswamy was awarded First Prize (cash award of twenty thousand rupees to Research student) at 5th Karnataka Science and Technology Academy, Govt. of Karnataka annual conference held at Dayanand Sagar Institutions Bangalore during 19-20th December 2012
4. Recipient of Davangere District **Karnataka Rajyothsava Award** from Dist. Administration, Davangere in the year 2017 for his contribution in the field of Science, Technology and Environment.
5. Recipient of **Rajaram Bapu National Award for Promising Engineering Teacher for Creative work done in Technical Education from Indian Society for Technical Education, New Delhi -2018**
6. Received Grants from IAA to Attended 10th Basic Course in Aerobiology, certificate course from Roskilde University, Denmark during July 2011. (Registration Fee supported by International Association of Aerobiology)

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7. Paul Harish Fellow by Rotary International, 2010
8. Underwent advanced Indoor Air Quality Training at PUREAIR- Environmental Diagnostic Laboratory, Clearwater, Florida USA during May 2008
9. Received Certification of Appreciation from Royal Society of Chemistry, (Founded by Dr. Yousaf Hammed, founder of Cipla)
10. Received Certificate of Appreciation from Rotary India Literacy Mission (RILM), Kolkata for his outstanding contributions in training more than 8000 teachers in under TEACH as a Distract Literacy committee Chair of RID 3160
11. Received Travel Grants from AICTE to attend 5th European Aerobiology Society Conference at Poland in the year 2012
12. Received Registration Grants to participate and present paper in 10th International Aerobiology Conference held at Sydney Australia in September 2014
13. Received Travel Grant Support from SERB-DST to present research paper in 11th International Congress on Aerobiology held at Parma, Italy during September 2018.
14. **Received Certificate of appreciation from offices of Bharata Ratna Dr. Abdul Kalam former president of India and Bharatha Ratna Dr. C N R Rao for organizing interaction programme with Davangere Children**
15. **Elected Fellow of Indian Aerobiological Society ®, 2018**
16. Awarded with “Davangere Siri” Lions International Davangere in 2017
17. Joint Secretary, Society of for Cytologists and Geneticists in India ®
18. Elected Executive member of Indian Society for Technical Education (ISTE), New Delhi
19. Nominated as Academic Senate Member of Visvesvaraya Technological University, Belagavi
20. Elected as Executive council member at large-International Association of Aerobiology(IAA)-Hq- Krakow, Poland

Visited USA as Group Study Exchange-Team member

21. Honored with Certificate of Appreciation by Governor of State Rhode Island and Providence Plantations, USA on 22nd April 2008.
22. Honored with Certificate of Appreciation by Speaker of the Commonwealth of Massachusetts State House, USA on 14th April 2008.
23. Honored by Mayor of Quincy-Boston as “Honorary Citizen of Quincy” USA on 15th April 2008 and New Bedford, USA 18th April 2008.

21. COUNTRIES VISITED (for academic interaction)

United States of America, Denmark, France, Sweden, Germany, Poland, Australia, Malaysia, Italy and Switzerland

22. OTHERS:

- Since 1989 I have been donating blood regularly. So far I have **donated blood 27 times** as on March 2018.
- Served as Member of Disciplinary Committee for Bapuji Educational Association® Davangere

PERSONAL:

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(Dr. B E Rangaswamy)

Details of Research Publications in Journals

S.N	Research Paper Detail	Journal where published	Year
1	Agashe S.N. and Rangaswamy, B.E. 1997. Melittoploynological studies of Honey samples from Bangardka. Dakshina Kannada District, Karnataka.	Indian Bee Journal 59 (1): 8-11. Citations: 14	1997
2	Agashe S.N. and Rangaswamy, B.E. 2002. Bee floral calendar of Dakshina Kannada and Udupi district of Karnataka, India.	Geophytology, 30 (1&2): 47-59	2002
3	Agashe S.N., Rangaswamy, B.E. and Mamlakatoi K Monitoring environmental biopollution and its relevance in public health.	Proceedings of National Symposium on Environment-11. Ed. By S. Sadashivan <i>et al.</i> Pp 252-255.	2002
4	Agashe S.N. and Rangaswamy, B.E. Chemical Characterisation of Apis cerana and Apis dorsata honey from Dakshina Kannada district, Karnataka, India.	Indian Bee Journal, Vol 63 (3&4) Pp81-88 Citations: 11	2002
5	Agashe S.N. and Rangaswamy, B.E. The study of bee collected pollen source for Apis cerana Fabr in coastal South Kanara, Karnataka, India.	J. of Indian Botanical Society Vol 81:287-292.	2002
6	Agashe S.N., Rangaswamy, B.E. and Mamlakatoi K Monitoring environment for airborne pollen and its significance in public health.	Prospects and Problems of Environment Ed. By M.N. Madhyastha, Daya Pub. House, New Delhi. Pp 85-90. Citations: 03	2003
7	Rangaswamy, B.E. and Agashe S.N. "Pollen analysis of honey collected from Western ghat regions of Karnataka, India with particular emphasis on bee foraging on mangroves".	Published in XV APLE symposium Proceedings 'pollen'- antes An. Asoc. palinol. leng. Esp (Published by University of Malaga, Spain).	2006
8	Jayasimha V.L, Niranjan H.P, Rangaswamy B.E , Yogesh Babu K.V, Vinod Kumar C.S & Basavarajappa K.G " <i>Bacteriological study of chronic obstructive pulmonary disease amongst allergy induced patients</i>	"Indian Journal of Aerobiology, Vol 24, No. 2 pp 91-95 NAAS impact factor 2.7.	2011
9	Ravishankar, B V., Patil C.G. and Rangaswamy B.E. Screening of ethanolic extract of Tephrosia purpurea (Fabaceae) for some Pharmacological activities.	Proceedings of Biodiversity and biotechnology for Sustainable Development edited by Lakshman and Hegde, published by Karnataka University, Dharwad, pp 385-389	2011
10	Rangaswamy B.E , Francis Fernandes, K.K. Prakash, Ravishankar B.V. & Shanmukhappa S.S. Occurrence of microbes causing respiratory ailments in the Garden of Davangere.	Indian Journal of Allergy, Asthma and Immunology, Jul-Dec 2012 , Volume 26 (2), 61-65 (Kluwer Publishers), Citations: 02	2012
11	Rangaswamy B.E , K.K. Prakash, Francis Fernandes, and Jayasimha V.L. 2012. Distribution Pattern of Airborne Fungi and Bacteria in the School Environment.	<i>Indian J. Aerobiol</i> Vol 25. No2 pp 53-58. NAAS impact factor 2.7.	2012
12	Rangaswamy B.E , Francis Fernandes, K.K. Prakash & Manjunath N.S. "Variability in airborne bacterial and fungal population in the tertiary health care centre"	Aerobiologia (Impact factor 2.01) Vol 29 (4): 473-479 Springer Publishers Citations: 22	2013
13	Manjunath N.S, Dayanand A, Jagannath K.V, Basavarajappa K.G, Rangaswamy B.E. 2013. Prevalence of Human Pyogenic Skin Infections, Bacterial Pathogens	J Pub Health Med Res 1(1):37-42 Citation 2	2013

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	and their Antibiotic Susceptibility Profile.		
14	Manjunath N.S, DayanadAgsar, Jagannath K.V., Rangaswamy B.E , Chandrasekhar Sagar, Surya Chandra Rao, Anand S, and Yogesha S,. Charactrisation and in Vitro Efficacy studies of wide host range lytic bacteriophage DMPAI infecting <i>Pseudomonas aeruginosa</i> isolated from pyogenic Skin infections.	Trends In Biotechnology Research , Vol 2(1), Page 4-11. Citations: 5	2013
15	Manjunath N.S., Dayanand A., Jagannath K.V., Rangaswamy B.E. , Surya Chandra Rao., Anand S., and Yogisha S. Characterization and in vitro efficacy studies of wide host range lytic bacteriophage Φ DMEC-1 infecting <i>Escherichia coli</i> isolated from pyogenic skin infections.	Trends in Life Sciences , 2(2): 47- 54. Citation 3	2013
16	Rangaswamy B E , Yogeetha Seema A.M & Jayasimha V L Bacteriological Study of infection in Allergic airway diseases	Indian Journal of Aerobiology Vol 26 (1&2), pp 65-70	2013
17	Rangaswamy BE ., Manjunath N. S, Sujatha M. Evaluation of Antidiabetic Activity from Methanolic Extract of Various Herbal Plants of Medicinal Importance.	RGUHS J.Pharm Sci. (Vol 3) 4: 58-61.	2013
18	Vanitha K.P. and Rangaswamy B.E. 2014. Isolation of Cellulose producing bacteria from glucose rich sources. Proceedings of Microbial Product in Diverse Sector	Published in Proceedings of Bannari Amman Inst. of Technology ISBN-978-81-920460-6-8 page no 61-64.	2014
19	Anilkumar M.R., Shanmukhappa S., Rangaswamy B.E. and Revanasiddappa M. Synthesis, Characterization, and Antimicrobial Activity of Some Transition metal complexes with Schiff Base Ligand	Journal of Applicable Chemistry- Vol 3 (4), 1440-1446 Citations: 03	2014
20	Anil Kumar M R, Shanmukhappa S,Rangaswamy B E Revanasiddappa M., Synthesis, characterization, antimicrobial activity, antifungal activity and DNA cleavage studies of transition metal complexes with schiff base ligand	International Journal of Innovative Research in Science, Engineering and Technology. Vol. 4, Issue 2, February 2015 Citations: 8	2015
21	Vasudevanayaka KBL, Rangaswamy B.E and Vanitha K.P. Methodological optimization and production of alcohol from fruit waste using <i>Saccharomyces cerevisiae</i>	International Journal of Novel Research in Life sciences Vol 2(3) pp 44-49	2015
22	Rangaswamy B.E. , Vanitha K.P. and Basavaraj S Hungund. Microbial Cellulose Production from Bacteria Isolated from Rotten Fruit.	International Journal of Polymer Science Volume 2015, Article ID 280784, 8 Pages. Hindwai Publishers. Impact factor 1.64 Citations: 86	2015
23	Shreenivas., Kumarappa S., ManjunathNS., Rangaswamy.B.E. , Production of Bioethanol from Different Feedstocks and Performance, Emission Characteristics of Single Cylinder CI Engine	International Research Journal of Engineering and Technology. Vol 2 (8)	2015
24	Sreenivas Reddy Bathula, Sharada P.S., Rangaswamy B E. , "HPV Caused Cervical Cancer"	International Journal of Cell Biology and Cellular Processes Vol. 1: Issue 1 pp-1-8 Citations: 03	2015
25	Sushmitha BS, Vanitha KP, Rangaswamy BE. , " <u>Bioplastics-A Review</u> "	International Journal of Modern Trends in Engineering and Research, Vol 3 (4)., 411-413	2016

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		Citations: 9	
26	Vinay Kumar J., Rangaswamy B.E. and Jayasimha V.L. Role of HLA-DRB1 typing in studying the genetic predisposition of selected population in Davangere.	Indian Journal of Aerobiology, Vol 28, Issue1&2, pp: 63-68.	2016
27	Rangaswamy B.E. ,Yogitha Seema A.M., & Jayasimha V.L. Allergic Airway Diseases; Role of Microbiota and Environment”.	Journal of Recent Scientific Research Vol. 7, Issue 4, pp. 10326-10329.	2016
28	Sushmitha S Kotian, Prakash KK, Rangaswamy BE. , Pill Camera: A new avenue in the field of endoscopy	Journal of Scientific and engineering Research, 2016 Vol 3(3) pp 335-338	2016
29	Ravishankar B.V., Rangaswamy B E , Ir. Sreenivas Reddy Bathula., Production of Bioethanol from <i>Muntingia calabura</i> - An Underexploited Fruit	International Journal of Industrial Biotechnology and Biomaterials ISSN: 2455-7323 (online) Vol. 2: Issue 1	2016
30	Nishitha Shrinath, Rangaswamy B E and Srinivas Reddy Bathula. Biomimics	International Journal of modern trends in Engineering and Research Vol 3(3) pp463-467	2016
31	Pooja.V.Bhat, Vanitha.K.P, Rangaswamy B.E. Biotechnology in Fashion- A Review	International Journal of Modern Trends in Engineering and Research (IJMTER) Volume 03, Issue 03, ISSN (Online):2349-9745; pp 413-415 Citations: 01	2016
32	Ashwini M Bhat, Rangaswamy B E and Srinivas Reddy Batula. How old are you?	International Journal of Engineering Research and General Science Volume 4, Issue 3, May-June, 2016 pp 307-311	2016
33	Rangaswamy B.E. and Vanitha K.P. <i>Tridax Procumbens</i> Leaf Extract Based Bacterial Cellulose For Wound Healing.	Asian Journal of Microbiology and Biotechnology, Vol 2 (1) pp 9-14. Citations: 03	2017
34	Ravishankar, BV; Ballary, Vikas S; Akarsh, MR; Rangaswamy, BE ; Bathula, Sreenivas Reddy; Production of bio-ethanol from an underexploited fruit of <i>Muntingia calabura</i> and studying performance and emission characteristics of single cylinder CI engine	Bioprocess Engineering, by Science Publishing group Vol.1, No. 1, 2017, pp. 1-6. doi: 10.11648/j.be.20170101.11 Citations: 05	2017
35	Rangaswamy B. E. , Prakash K. K., and Francis Fernandez. Aero-microbial assessment with reference to different seasons in a vegetable market	International Journal of Pure and applied Biosciences 5(5)1195-1201	2017
36	Sheryll Dsilva, Ashish Prabhu, Suhas B.C, Rangaswamy B.E and Venkata Dasu Veeranki “Biosorption of hexavalent chromium by free and immobilized dead <i>Sargassum</i> sp: A study on isotherms and kinetics.	Desalination and Water Treatment. , www.deswater.com doi: 10.5004/dwt.2017.0099 Vol 62., 335-345 Impact Factor-1.24 Citations: 02	2017
37	Vinaykumar J, Jayasimha V L, Rajesh B P and Rangaswamy B E. Association of HLA-DRB1 alleles in Genetic Predisposition of Davangere population	International Journal of innovative Research in Technology Vol 6, Issue 7 page 49-52	2019
38	Vasudeva nayaka KBL, Rangaswamy B E , Tejaswini M, Shrilaxmi Bhat, Sahithya G and Annapurna Vajrad. Areca Husk Fibers as Agro-waste to value added products in Textile Sector-A Practicability study.	International Journal of Advanced Research Vol 7(9), pp-106-111 <i>Doi URL -</i> <i>http://dx.doi.org/10.21474/IJAR01/9</i>	2019

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		636	
39	Jayasimha VL, Rangaswamy BE , Niranjan K. Utility of Procalcitonin in early diagnosis of Neonatal sepsis.	Journal of International Medical and Dentistry Vol; 4 (1). 310-304	2020
40	Jayasimha VL, Basavarajappa KG, Rangaswamy BE ,Niranjan K. Clinico-bacteriological correlation of Neonatal Sepsis and Sepsis Markers	Journal of Contemporary Pediatrics. Vol 5(1). 230-235	2020
41	Manjunath N S, Rangaswamy B E. , Hafs aJaveed, Ganavi D, Sahana JK and Ullas Kotihal " Evaluation of Nigella sativa (Black cumin) for anticancer and anti-inflammatory activities	Int. Journal of Herbal Medicine Vol 8(5) pp 01-09. Citation 2	2020
42	Pavan Kumar M.P, Poornima B, Nagendraswamy H S, Manjunath C and Rangaswamy B E. Structure preserving image abstraction and artistic stylization from complex background and low illuminated images	ICTACT Journal on Image and Video Processing, Vol: 11(1), doi:10.21917/ijivp.2020.0316) (Indexed in UGC care and IET-Inspection) Impact factor: 0.786 Citations: 06	2020
43	Vasudeva Nayaka KBL., Rangaswamy BE Pulverized Maize Cob as a Recycled Agro Waste - A Feasibility Study	International Journal of Waste Resources, Vol.10 Issue 1 Pages 376 pp 1-10 doi: 10.35248/2252-5211.20.10.376 citations: 2	2020
44	Amruta Patil-Joshi, Rangaswamy B E and Anjali Apte-Deshpande "Paper based PCR method development, validation and application for microbial detection"	Journal of Genetic Engineering and Biotechnology published by Springer Impact factor 1.99	2021
45	Pavan Kumar M.P, Poornima B, Nagendraswamy H S, Manjunath C and Rangaswamy B E. Image abstraction framework as a preprocessing technique for the extraction of text from complex background and graphical embossing images	International Journal of Distributed Artificial Intelligence (IJDAI) 13 (1) (2021): 1-35. Web. 7 Apr. 2021. doi:10.4018/IJDAI.2021010101. (Indexed by: DBLP, IET indexing) Citations: 03	2021
46	Pavan Kumar M.P, Poornima B, Nagendraswamy H S, Manjunath C and Rangaswamy B E. "A Refined Structure Preserving Image Abstraction Framework as a Pre-Processing Technique for Desire Focusing on Prominent Structure and Artistic Stylization",	WSPC-Vietnam Journal of Computer Science , Vol. 8, No. 4 (2021) 529–583 doi: 0.1142/S2196888822500038. (Indexed by UGC–Care, E-SCI, DBLP, IET indexing-Open access). Impact Factor: 0.92 Citations: 03	2021
47	Pavan Kumar M.P, Poornima B, Nagendraswamy H S, Manjunath C and Rangaswamy B E. "HDR and Image Abstraction Framework for Dirt Free Line Drawing to Convey the Shapes from Blatant Range Images.	<i>Multidimensional System and Signal Processing</i> , Springer . 2021. Pp 1-58 (Communicated) (Indexed by: SCI-indexing, DBLP, IET and UGC-Care). Impact factor :1.8 DOI: 10.1007/s11045-021-00803-x. Citations:01	2021
48	Amruta Patil-Joshi, Rangaswamy B E , Anjali Apte-Deshpande. "Rapid water potability testing by paper-based pcr using whatman paper no.1.	International Journal of Current Research, 13, (12), 20024-20030. (Open source)	2021.
49	Pavan Kumar M.P, Poornima B, Nagendraswamy H S, Manjunath C Rangaswamy B E. , Varsha M and Vinutha H P., Structure Preserving Image Abstraction Framework as a Pre-processing Technique for Accurate Classification	SN Computer Science, (Springer Nature-Singapore) 2022, 3:87 PP 1-30 (Accepted on 10-01-2022) Springer. DOI: 10.1007/s42979-021-	2022

Profile of Dr. B.E.Rangaswamy, Registrar Evaluation, VTU

	of Archaeological Monument using Machine Learning Approaches.	00935-8 (Indexed by: ESCI, WoS and DBLP indexing). Citations: 02	
450	Manjunth Nandihalli Shetru., Maribasappa Karched.,Dayanand Agsar., Rangaswamy B E. , In vitro lytic efficacy of bacteriophages against multidrug-resistant pathogenic bacterial species isolated from pyogenic skin infections.	Indian Journal of Microbiology Research, Vol 9 (1) pp 1-10 https://doi.org/10.18231/j.ijmr.2022.003	2022.
51	Nalina Narasimhaswamy, Nalina Dasappa, Rohit K.C., Rangaswamy B.E , Divakara SG, Sumathra Manokaran and Manjunatha Reddy A.H., Wetland Inventory: Assesment and monitoring.	<i>Paripex-Indian Journal of Research</i> , Vol 11 (04), pp-1-5 DOI; 10.36106/paripex (Index Medicus, Indian Citation Index, Google Scholar, CrossRef etc - Impact Factor: 6.941)	2022.
52	Tanusree Chaudhuri, Rangaswamy B E. , Manokaran S and Manjunath Reddy A H " Role of human gene SNVs in Tuberculosis infection "	Submitted to "BMC Infectious Diseases" Ref: Submission ID 46d6cbd3-aad8-4451-becb-69b1a83155eb by Springer nature	Progress
53	Bhavya S G,, Vivek Chandramohan., Varun Narayana Chakrakodi., Manjunath Dammalli., Rangaswamy B E. , Potential inhibitors of SARS-cov-2 RNA dependent RNA polymerase protein: molecular docking, molecular dynamics simulations and MM-PBSA analyses.	Submitted to Journal of Molecular Simulations (Published by Taylor & Francis Online-Dr. BE Rangaswamy Corresponding Author)	Progress
54	Prutha Vijaykumara, Rangaswamy BE. , Sumathra Manokaran and Manjunatha Reddy AH. A Paradigm Shift in Oncology and its Treatment	ECS Transactions,107(1) 1183-1190., 10.1149/10701.1183ecst © The Electrochemical Society	2022
55	Kavadikeri Smita., Manokaran Sumathra; Rangaswamy, B.E. ; Reddy, A.H. Manjunatha., Isolation and Identification of Diatom from Urban Lake water.)	<i>Communicated to Journal of Applied Research. (Under review)</i>	Progress
56	Pavan Kumar MP., Poornima B., Nagendrswamy H S., Rangaswamy B E. , Varsha M., Low computational image enhancement framework for structure enhancement from blatant images.	<i>Communicated to SN computer science Springer. (Under review)</i>	Progress
57	Chandukishore T; Samskrathi D; SrujanaT L; Prabhu, Ashish A; Rangaswamy B E. "Development of Plant Extract Based Vermiwash and Study its Effect on Plant Growth Parameters and Insecticidal Property for Capsicum annum"	<i>Journal of Soil Science and Plant Nutrition by Springer - Manuscript ID SSPN-22-046-F</i>	Progress
58	Subramanya KN, AH Manjunatha Reddy, Brahmanand D, Sandesh S Kammath, Sumathra Manokaran and Rangaswamy B E. Application of MLOps in Prediction of Lifestyle Diseases	ECS Transactions, 107(1) 1191-1198. 10.1149/10701.1191ecst ©The Electrochemical Society	2022
59	Prakash KK., Francis F and Rangaswamy B E. Aero-bacteriological investigation of different occupational sites in Davangere-Karnataka	<i>Communicated to Aerobiologia- Published from Springer</i>	Progress
60	Nalina Narasimhaswamy, Rohit K.C., Rangaswamy B.E. , Divakara SG, Sumathra Manokaran, and Manjunatha Reddy A.H. Biological Synthesis and characterization of Silver nano-particiles by <i>Orthosyphan rubicundas</i>	ECS Transactions,107(1)16843-16849 10.1149/10701.16843ecst ©The Electrochemical Society	2022

Research publications/Project Reports in Proceedings

1. Sandhyarani B.V., Shwetha K.S., Shwetha N. Sukritvashist., MR. Manjunath N.S., Pujar B. G., **Rangaswamy B E.** Exploration of bacteriophage therapy against the causative agents of human skin infection. *Published in 30th series of KSCST SPP Proceedings (Compendium) Page , 24-26 2006-07*
2. Vinay D.B., Raghavendra C.H., Ramakanth Reddy B. Santhosh M., **Rangaswamy BE.**, Manjunath N.S., Preliminary investigation on aeromycoflora of some libraries in Davanagere., *Published in 31st series of KSCST SPP Proceedings (Compendium) Page 28-29, 2007-08*
3. Praveen kumar M., Bhavana H.M., Darshan M, **Rangaswamy BE.**, Gangaraju S A., Ravishankar B.V. Biotechnological process of composting and field evaluation studies. *Published in 32nd series of KSCST SPP Proceedings (Compendium) Page 87-88, 2008-09.*
4. Manasagouri J Gayatri ., Sowmya G.S., Rani K.C., Smitha D.P. **Rangaswamy BE.**, Manjunath NS., Aeromycofloral studies of some occupational sites in Davangere city., *Published in 32nd series of KSCST SPP Proceedings (Compendium) Page 28-29. 2008-09.*
5. Darshan M., Soumya G.S., Muralidhara E., Rashmi D. Praveen Kumar D.G., **Rangaswamy B E.**, Slow pyrolysis of kinar for generation of solid liquid and gaseous fuels *Published in 32nd series of KSCST SPP Proceedings (Compendium) Page 29-30., 2008-09.*
6. Ashwinin., Doddabasappa a., Mahammed Nayaz S.K., Preethi M.B., Pujar B.G., Manjunath, N.S., **Rangaswamy B.E.**, Production of ethanol from genetically modified corn powder. *Published in 33rd series of KSCST SPP Proceedings (Compendium) Page 33-34 2009-10.*
7. Pallavi G. S., Namratapai., Manjunath N.S., Praveen kumar D.G., **Rangaswamy, B E.**, *In vitro* anti-cancer activity of selected herbal extracts *Published in 33rd series of KSCST SPP Proceedings (Compendium) Page 34-35., 2009-10.*
8. Anupama krishnamurthy., Swati bhat., Shruti Nayak., Manjunath N S., **Rangaswamy B E.**, Pujar, B G & Manjappa S. Production of ethanol from beetroots. *Published in 34th series of KSCST SPP Proceedings (Compendium) Page 34-36, 2010-11.*
9. Shantha.B.T., Ghazala Anjum., Manasa.N., Sabahath Nazneen Taj., Manjunath N.S Sujatha M.L., **Rangaswamy, B E.** Evaluation of hypoglycemic and antidiabetic activities from selected plants. *Published in 35th series of KSCST SPP Proceedings (Compendium) Page 58-59., 2011-12.*
10. Amrutha S.C., Ashwini M., Chaitra N., Krutika M Nagaraj., Manjunath N.S., **Rangaswamy, B E.**, Utilization of crude glycerol obtained from waste fish oil in the production of 1,j-propanediol., *Published in 35th series of KSCST SPP Proceedings (Compendium) Page 254, 2011-12.*
11. Amrutha S.C., Manjunath N.S., **Rangaswamy, BE.**, *Swietenia mahagoni*-the potential source for the production of biodiesel., *Published in 35th series of KSCST SPP Proceedings (Compendium) Page 55-56., 2011-12.*
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Technology Transferred/ Patents, If any.

Patent Applied:

1. **Dr. B.E.Rangaswamy** and Dr Vanitha K.P. (Research Student) filed patent Application in 2016 on "**Natural Source Media for the Production of Bacterial cellulose**" **Application No: 201641004194**. *Reply for the 1st report under progress.*
2. Deposited Microbial Culture **Komagataeibacter hansenii, (RV39)** in Microbial Type Culture collection & Gene Bank at CSIR-Institute of Microbial technology, (According to Budapest Treaty) Chandigarh-India. IMTECH-Chandigarh (**MTCC No-25039**) in 2015

Technology Transfer under Process:

3. **Developed biodegradable, cost effective, eco-friendly and sanitary napkins with deodorizing properties** supported by NAIN Scheme by Dept. of IT, BT and S&T (Govt. of Karnataka. 1000 free pads distributed and MoU with company has made to produce large quantities for distribution.
4. **Designed the low cost isolation chambers for COVID 19 patients with effective filters** – at one of the Covid care centre in Davangere during 2020 May-June. Supported by VTU Under TEQIP grants