

FACULTY PROFILE

Dr. G. J. Sathisha

Professor, Department of Studies and Research in Biochemistry
Chairman, Department of Studies and Research in Food Technology

Qualification: MSc, PhD, PDF (USA)

Areas of Specialization:

- Structure-function relationship of Plant lectins
- Nanotechnology
- Phytochemistry & Cancer Biology



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EDUCATIONAL QUALIFICATION

Sl. No	Degree	College / University	Year of Passing / Award	Subjects / Specialization
01	Ph.D.	Karnatak University, Dharwad, Karnataka, India	2008	Studies on Lectins: Molecular Characterization of <i>Sclerotium rolfii</i> Lectin and its Interaction with Human Cervical Cancer Cells HeLa and SiHa
02	NET-JRF	CSIR, New Delhi	1997	Life Sciences
03	M. Biotech	Gulbarga University, Gulbarga, Karnataka, India	1996	Biotechnology
04	M.Sc.	Gulbarga University, Gulbarga, Karnataka, India	1995	Biochemistry (Spl. in Biotechnology)
05	B.Sc.	Sri Guru Kottureshwara College, Kottur, Karnataka, India	1993	CBZ (Chemistry, Botany and Zoology)

Professional Experience (Academic & Research):

Sl. No	Designation	Institution / University	UG/PG	Period
01	Lecturer	Department of Biochemistry, Sahyadri Science College, (Autonomous), Shivamogga, Karnataka	UG	1998-2004
02	Senior Scale Lecturer	Department of Biochemistry, Sahyadri Science College, (Autonomous), Shivamogga, Karnataka	UG	2004-2009
03	Reader	Department of Biochemistry, Kuvempu University, Shankaraghatta, Shivamogga, Karnataka, India	PG	2009-2012
04	Associate Professor	Department of Biochemistry, Kuvempu University, Shankaraghatta, Shivamogga, Karnataka, India	PG	2012-2015
05	Professor	Department of Biochemistry, Kuvempu University, Shankaraghatta, Shivamogga, Karnataka, India	PG	2015-till date

Academic / Administrative Responsibilities:**01 Worked as a Chairman**

- Department of Biochemistry, Kuvempu University, Shankaraghatta, (13-01-2012 to 16-10-2013)
- Department of Biochemistry, Kuvempu University, Shankaraghatta, (01-02-2016 to 28-02-2018)
- Department of Food Technology, Kuvempu University, Shankaraghatta (Since 05-08-2024)

02 Worked as a Chairman, Board of Studies (BOS) in Biochemistry

- Kuvempu University, Shankaraghatta (04-09-2013 to 14-10-2013; PG)
- Kuvempu University, Shankaraghatta (04-09-2013 to 14-10-2013; UG)
- Kuvempu University, Shankaraghatta (04-09-2016 to 03-09-2019; PG)
- Rani Channamma University, Belagavi, Karnataka (22-05-2024 to 22-05-2026; PG)

Worked as a Member, Board of Studies (BOS) in Biochemistry

- Kuvempu University, Shankaraghatta (2010-13, 2013-16, 2019-25; PG)
- Kuvempu University, Shankaraghatta (2010-13, 2013-16, 2019-25; UG)
- Davanagere University, Davanagere, Karnataka (2010; Adhoc, UG)
- Vijayanagara Sri Krishnadevaraya University, Bellary, Karnataka (2011; Adhoc, PG)
- Karnatak University, Dharwad (2018-2020; PG)
- Central University of Kerala (CKU), Kasaragod, Kerala (2018-2021; PG)
- Bengaluru City University, Bangalore (2018-2021; UG & PG)
- Davanagere University, Davanagere (2018-2021; UG & PG)
- Davanagere University, Davanagere (2019-2022; UG & PG)

	<ul style="list-style-type: none"> • Mangalore University, Mangalore (2019-2022; PG) • Rani Channamma University, Belagavi, Karnataka (2022-2024; PG) • Maharani Lakshmi Ammanni College for Women (Autonomous), Bangalore (2023-2024; PG) • JSS College of Arts, Commerce and Science, Mysore, Karnataka (2023-2026; PG) • Bengaluru City University, Bangalore (2024-2027; PG) • Bengaluru University, JB Campus, Bangalore (2025-2028; PG)
03	<p>Worked as a Chairman, Board of Examination (BOE) in Biochemistry</p> <ul style="list-style-type: none"> • Department of Biochemistry, Kuvempu University, Shankaraghatta, (2013-2014; 2021-2022 & 2024-2025) • Department of Biochemistry Kodagu University, Chikka Aluvara, Kushalanagara, Madikeri, Karnataka (2023-2024) • Rani Channamma University, Belagavi, Karnataka (2023-2024) <p>Worked as a Member, Board of Examination (BOE) in Biochemistry</p> <ul style="list-style-type: none"> • LBS Arts and Science College (Autonomous), Sagara, Karnataka (2010-2011; UG) • Kuvempu University, Shankaraghatta (2011-12; PhD) • Kuvempu University, Shankaraghatta (2015-21; 2022-24 & 2024-25 Food Technology), • Gulbarga University, Gulbarga (2015-16; 2018-19 & 2020-21; MPhil & PhD) • Davanagere University, Davanagere (2015-16 ; 2019-20, 2021-22; 2023-24; 2024-25 (Food Technology) UG, PG, MPhil & PhD) • Maharani Cluster University, Bangalore (2019-20; 2022-23& 2023-24& 2024-25) • Mangalore University, Mangalore (2020-21; 2022-23 & 2025-26) • Bangalore University, JB Campus, Bengaluru (2020-21) • Mysore University, Mysore (2023-24 Molecular Biology) • Tumkur University (2024-25 Food Science & Nutrition & PhD) • Department of Biochemistry Kodagu University, Chikka Aluvara, Kushalanagara, Madikeri, Karnataka (2024-2025)
04	Worked as a Nodal Officer (RUSA 1.0): Since 10-12-2029-till date
05	<p>Reviewer for Research Journals:</p> <ul style="list-style-type: none"> • ARCC (Agricultural Research Communications Center) Journals, India • Asian Journal of Pharmaceutics (AJP) • Journal of Farm Sciences • Journal of Physiology and Pharmacology • Journal of Pharmacy and Bio allied Sciences • Asian Journal of Dairy and Food Research
06	<p>Worked as a</p> <p>Member: Students Grievances Cell, Dept. of Electronics, Kuvempu University, Shankaraghatta (2020)</p> <p>Member: Student Grievances Redressal Committee (SGRC), Kuvempu University, Shankaraghatta (Since 25-07-2024)</p> <p>Member: MSc. Biochemistry admission committee (2009-10; 2018-19; 2021-22; 2023-24 & 2024-25)</p>
07	<p>Worked as a</p> <p>Selection committee Member: Kuvempu University's Constituent College, UG guest</p>

	<p>lecturer selection on 22-7-2016.</p> <p>Selection committee Member: Kuvempu University, UG & PG guest lecturer selection on 13-06-2028.</p> <p>External Subject Expert Member: Guest lecturers for PG Biochemistry, Chemistry, Material Science, Gulbarga University, Gulbarga (12-11-2020)</p> <p>Member to scrutiny the CAS Application: to scrutiny the application for the promotion to Professor on 20-09-2021.</p> <p>Member: to select Assistant Professor for UG Biochemistry course under HYK, Kuvempu University on 26-12-2017</p> <p>External Subject Expert Member: Development of e-content for undergraduate course in Biochemistry, Tumkur University, Tumkur (12-05-2016)</p> <p>Judge: inter departmental cultural program “ Sahyadri Sirigandha” Kuvempu University (25-09-2018)</p> <p>Judge: for the “Young Explorer” a Science Model Competition (V to X Std) organized by the Podar International School, Shimoga (14-11-2019)</p> <p>External Subject Expert to Interview PhD applicants: Dept. of Food Technology, Davanagere University, Davanagere (14-02-2023)</p> <p>Tender Inspection Committee Member: DST-FIST(L1) program’s instrument procurement (11-06-2020)</p> <p>Tender Inspection Committee Member: Pest Control Management Solution & Sanitization/Disinfectant Services (11-11-2020)</p> <p>Member: Welcome & Hospitality committee, 34th Convocation of Kuvempu University (07-10-2024)</p>
08	<p>Worked as a</p> <p>Chairman: Local Inspection Committee for Affiliation of UG & PG Courses in Affiliated Colleges of Kuvempu University (2025-26; 2024-25; 2021-22; 2020-21)</p> <p>Member: 2021-22; 2020-21; 2019-20; 2010-11)</p>
09	<p>Worked as an expert member in the doctoral committee constituted to conduct Pre-thesis submission colloquium of</p> <ul style="list-style-type: none"> • Mr. Srinivasa K (19-07-2023; DOS in Biochemistry, PG Center, Mangalore University, Chikka Aluvara, Kushalanagar, Karnataka. • Miss. C. A. Divya (26-10-2021; DOS in Biochemistry, PG Center, Mangalore University, Chikka Aluvara, Kushalanagar, Karnataka. • Ms. Moorthy Karthika Selvi (26-02-024; DOS in Biochemistry, PG Center, Mangalore University, Chikka Aluvara, Kushalanagar, Karnataka
10	<p>Worked as a member of Faculty of Science, Kuvempu University</p> <ul style="list-style-type: none"> • 12-09-2011 to 11-09-2013 • 12-09-2017 to 11-09-2019 • 13-09-2021 to 19-09-2023 • 29-05-2024 to 28-05-2026
11	<p>Worked as Academic Advisory Council Member for School of Chemical Sciences, Kuvempu University</p> <ul style="list-style-type: none"> • 16-04-2010 to 15-04-2012 • 27-01-2016 to 26-01-2018 • 04-01-2018 to 03-01-2020
12	<p>Worked as</p> <ul style="list-style-type: none"> • Expert member in an affiliation committee to extend affiliation to Distance Education study centers of Kuvempu University (Chitradurga & Hiriyur 03-12-2019 & 04-12-2019) • Sitting squad for Kuvempu University distance education exams at RPA First Grade College, CA-2, 70th Cross, 5th Block, Rajajinagar, Bangalore-560 010 (12-02-2020)

Goggle Scholar:

Google Scholar h-index = 11; i10 index = 12; Citations =484

MPhil / Ph.D. Students Mentored:

Sl. No.	Name of the Candidate	Title	Date of Award	Guide / Co-guide
01	Mr. Ghouseul Azam	A Phytochemical and Pharmacological Study of <i>Rhus Mysorensis</i>	30-01-2014 (MPhil)	Guide
02	Mrs. Kavitha P.	Metabolomics of Tomato with Special Reference to Fruit Quality	09-08-2016	Co-Guide
03	Mrs. Sumathi M.	Biochemical Investigations on the Mechanism of Corky Tissue Formation in Sapota Fruit CV. Cricket Ball	29-08-2016	Co-Guide
04	Mrs. Hemalatha	Molecular Cloning, Expression and Characterization of <i>Scleorotium rolfsii</i> lectin	25-10-2016	Guide
05	Mr. Goudar Giridhar Ranganath	Phytochemicals and Antioxidant Properties of Millet Grains	17-07-2017	Guide
06	Mrs. Poornima D. V.	Biochemical Investigations for the Over Production of Triterpenoid Saponins of <i>Leucas aspera</i> Spreng.	18-09-2018	Guide
07	Miss. Anitha N.	Studies on Monocot Plant Lectins	28-11-2018	Guide
08	Mr. Sameer Patil	Characterization of Cell Wall Degrading Enzymes of Fungi Causing Fruit rot of Arecanut (<i>Areca catechu</i> L)	17-06-2019	Guide
09	Mrs. Bindhu G. V.	Biochemical Studies on Induction of Flowering in Mango	30-10-2019	Co-Guide
10	Mr. Ghouseul Azam	Characterization of Bioactive Compounds from <i>Rhus mysorensis</i> for Pharmacological and Cytotoxic Activities	12-09-2022	Guide
11	Miss. Joan Chebet	Identification of a Novel Bacterial Strain Capable of Degrading Textile Azo Dyes	13-02-2024	Co-Guide
12	Mrs. Sujatha M. H.	Bioactive Compounds from Seeds: Understanding the Anticoagulant and Antiplatelet	17-04-2024	Guide

Activities				
13	Mr. Vasanth Raj B.	Screening, Characterization and Biological Properties of Latex Lectins from Different Species of Artocarpus	17-04-2024	Guide

Funded Research Projects:

2010-2013: Principal Investigator – Project entitled “Studies on cell wall degrading enzymes of fungi causing fruit rot (Koleroga) in areca nut - A potential target of disease control” sponsored by University Grants Commission, India (7.5 Lakhs).

2019-2024: Co-Principal Investigator- DST-FIST (Level 1) funded by the Department of Science and Technology, New Delhi (Rs. 117 lakhs).

Honors/Awards/Ranks

Postdoctoral Training: awarded UGC sponsored CV Raman Fellowship to pursue postdoctoral training in the Department of Biochemistry & Molecular Biology, Department of Biochemistry & Molecular Biology, Cancer Center, CN 1109C # 1410, Laney Walker BLVD, Georgia Regents University, Augusta, GA-30912. USA.

Awarded Teacher Fellowship to pursue PhD under Faculty improvement program (FIP) sponsored by University Grant Commission (UGC), New Delhi, India during -27-09-2004-19-10-2007.

Qualified joint CSIR-JRF-NET (National Eligibility Test) for Junior Research. Fellowship cum Lectureship – Council of Scientific and Industrial Research (CSIR), Government of India, 1997.

Obtained 1st rank both in Master’s Degree in Biochemistry (1995) & Master’s Degree in Biotechnology (1996), Gulbarga University, Gulbarga, Karnataka, India.

Qualified Graduate Aptitude Test in Engineering-95 (GATE-95) – 91.66 percentile.

Won two gold medals for securing highest marks in M.Sc. Biochemistry (1995).

Won one gold medal for securing highest marks in M. Biotech (1996).

External Adjudicator of Ph.D. Thesis Evaluated more than 20 Ph.D. Theses in Various Disciplines from the Following Institutions:

University of Mysore, Mysore, Karnataka.

Karnatak University, Dharwad, Karnataka.

Davangere University, Davangere, Karnataka.

Tumkur University, Tumkur, Karnataka.

Bangalore University, Bangalore, Karnataka.

Mangalore University, Mangalore.

Osmania University, Hyderabad, Telangana.

Acharya Nagarjuna University, Guntur, Andhra Pradesh.
Sri Krishnadevaraya University, Ananathapuram, Andhra Pradesh.
Bharathidasan University, Tiruchirappalli, Tamilnadu.
Prist University, Thanjavur, Tamilnadu.

External Adjudicator of MSc (Ag) Dissertation

Evaluated MSc (Ag) dissertation of the following institutions

University of Agricultural Sciences (UAS), Dharwad

Membership in Professional Bodies:

Life member for Society of Biological Chemists (INDIA). (Membership No:1190;2000)

Life member for Indian Society of Human Genetics (ISHG).(Membership No: L/1115/2004).

Life member for National Book Trust of India (NBT) (Membership No: SRO/KAR/018691, 2002).

Life Member for Indian Society of Analytical Scientists (ISAS)-Belagavi, Karnataka, India

Life Member for the Indian Science Congress Association (ISCA) (Membership No: L39811)

Guidance of M.Sc. Student's projects:

Year: 2012-2013

Sl. No	Name of the Student	Title
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01	Parameshwaraiah M. V.	Study on Mitochondrial Outer Membrane Protein VDAC
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02	Chaitra C. Nandini K. C. Sangeetha B Shruthi H. V.	<i>In vitro</i> Evaluation of Anticancer Activity of Methanolic Extract of Some Medicinal Plants
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Year: 2014-2015

03	Sahana D Namratha G. S.	Comparative Studies on Production & Purification of Glucose Oxidase from <i>Bacillus</i> Sps with its Nano form
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04	Amrutha Y. C.	Studies on Chemically Induced Gene Mutation on <i>Renilla reiformis</i> Green Fluorescent Protein
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05	Anusha T Nirmala B. J.	Development & Evaluation of Phosphate and Potassium Solubilizing Fungal Consortia on Brinjal and Tomato
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06	Hariprasad K. S.	PCR based Gene Amplification to Improve the Recombinant Enzyme Production
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07	Rani R. Kiran Reddy	Molecular Assessment to Genetic Diversity Study of Mung bean Genotypes Using SSR Markers
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Year: 2016-2017

08	Indira G	Hemostatic Interaction and Thrombolytic Activity of <i>Lantana camera</i> &
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<i>Parthenium hyperophorous</i>		
09	Madhu R Ranjitha M Sinchana K R	Isolation and Partial purification of Soya bean (<i>Glycine max</i>) Lectin
10	Akshatha T M Chaitra M Vidya P Patil	Isolation and Partial purification of <i>Cascabela thevetia</i> Lectin
11	Bharath A C Smitha H R Swathi G	Isolation and Partial purification of Jack Fruit (<i>Artocarpus heterophyllus</i>) Lectin
Year: 2017-2018		
12	Roohi Tabassum D A	Bio Fortification of Aerobic Rice with Molecular Markers Using Zinc and Iron
13	<u>Charitha G S</u>	Antioxidant Activity Of Different Tea Samples
14	Deeksha D	Cross Species Amplification of Microsatellite Markers in <i>Myristicaceae</i>
15	Navyashree A N Sowmyashree P	Analytical Techniques Used to Test The Drug Substances
16	Sandeep H M	Mutation and Molecular Characterization of MDR Using AFLP
Year: 2018-2019		
17	Rohith M. M	Neuroprotective Role of Medicinal Plants
18	Manasa M. H	Analysis of the Components in Oral Care Product: Toothpaste (Omnident)
19	Ameena Kausar	Evaluation of In vitro Antioxidant and Anticancer Activity of Some Selected Plant Extracts
20	Priya M.	Catechin Induced G2M Phase Cell Cycle Arrest in Breast Cancer Cells
21	Varsha G. N.	Pharmaceutical Analysis of Piptaz Injection
22	Sowparnika A.	Pharmaceutical Analysis of Tidilan Tablet
23	Karthik K. N. Ankitha G. N. Sandeepakumara T. E.	Evaluation of Antioxidant and Insecticidal Activities of Methanolic Extract of <i>Elephantopus scaber</i> L. (Composite
24	Nayana K. R. Padmashree T.	Antibacterial Activity of Green Synthesized Metal Oxides and Doped Metal Oxide Nanoparticles Using <i>Crotolaria laburnifolia</i>
25	Geetha G. T.	Hepatoprotective Activity of Selected Plants Against Liv52 induced in HEPG2 Cell line
26	Sahana S.	Study on Antidiabetic and Antioxidant Potential of Proteins Isolated from <i>Gnidia glauca</i> and <i>Calotropis gigantea</i>
27	Drishti H. R.	Osteoblastogenesis Potential of Selected Plants in UMR 106 Cells
Year: 2019-2020		
28	Meghana S Manjula K Kavana H	Screening of Aqueous Leaf Extracts of Selected Plants for <i>In Vitro</i> Anticoagulant, Proteolytic and Antiplatelet Activities

29	Ayesha Siddiqha Nithya P. N. Shilpa N.	Effect of <i>Momordica charantia</i> Seed Extract on Anticoagulant, Fibrino (geno) Lytic And Fibrinolytic Activities
30	Navami K. N Prathima M.N. Shwetha V. P.	Molecular Identification of Nontuberculous Mycobacterium Species from Water Samples of Different Sources from Different Locations in Bangalore
31	Dhanya Meghana V. K.	Detection and Identification of Human Papilloma Virus Specimen by DNA Amplification with Consensus Primers
Year: 2020-2021		
32	Dinesha M Mala M Prathiba S Sinchana K P	Studies on <i>in vitro</i> Anticoagulant, Proteolytic and Fibrin(ogeno)lytic Activity from Plant Latex Extracts
33	Anil A S Meghana V Noor Saniya H A Rachana N	Evaluation of aqueous leaf extracts of selected plants for <i>in vitro</i> anticoagulant, proteolytic and Fibrin(ogeno)lytic activities.
34	Megha N Shanbhag	Bioinformatics analysis of <i>Trichogramma chilonis</i> transcript code for kininogen-1 like protein
35	Archana Bhatt G K	<i>In silico</i> Analysis of <i>Trichogramma chilonis</i> transcript code for odorant receptor OR2 like transcript
36	Chandana V Urs	<i>In silico</i> Analysis of <i>Trichogramma chilonis</i> transcript code for putative odorant binding protein
Year: 2021-2022		
37	Anusha G S Pradeepa B R	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Manilkara zapota</i> latex
38	Abhilasha K T Padmini J Jain	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Plumeria alba</i> latex
39	Bhavyashree Sachin H C	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Euphorbia trigona</i> latex
40	Bhavana A R Rachana R Nayak	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Wrightia tinctoria</i> seeds
41	Prathama B V Arpitha K	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Dathura stromanium</i> seeds
42	Manasa K A	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>cascabela thevetia</i> latex
43	Meghavathi	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation of <i>Ficus drupaceae</i> latex
44	Sahana Ratnakumar Avaghan	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrin(ogeno)lytic activity and toxicity evaluation from <i>Carica papaya</i> seeds
45	Soppi Mathada Jyothi	Exploring <i>in vitro</i> and <i>in vivo</i> anticoagulant, proteolytic, Fibrinogenolytic activity and toxicity evaluation of <i>Passiflora edulis</i> seeds
46	Supriya S H	Exploring <i>in vitro</i> anticoagulant and fibrinogenolytic activity of <i>Cascabela thevetia</i> latex extract
47	Gagana B	Studies on <i>in vitro</i> anticoagulant activity from <i>Passiflora edulis</i> seeds extract
48	Bindushree B K	Studies on <i>in vitro</i> anticoagulant activity from <i>Carica pappaya</i> seeds extract
49	Wasiya Muzaiyyan	Screening of anticoagulant and hemolysis activity of <i>Ficus drupaceae</i> latex

Year: 2022-2023		
50	Namana K R Tanuja S Patil.	<i>In vitro</i> Evaluation of Procoagulant and Anticoagulant Activities of <i>Syzygium malaccense</i> (Myrtaceae) seed Extract”
51	Pragathi B N Varshini V.	<i>In vitro</i> Evaluation of Procoagulant and Anticoagulant Activities of <i>Lantana camara</i> (Verbenaceae) seed Extract”
52	Harini J M Shashank K U.	Exploring <i>in vitro</i> Anticoagulant, Proteolytic, Fibrin(ogeno)lytic activity of <i>Syzygium cumini</i> seed Extract”
53	Megha K S Sushmitha	Exploring the Anticoagulant, Antiplatelet and Fibrin(ogeno)lytic activity of protease purified from <i>Datura stramonium</i> seed Extract”
54	Kruthika L Suchitra H M.	Evaluation of Anticoagulant, Antiplatelet and Fibrin(ogeno)lytic activities of protease purified from the latex of <i>Wrightia tinctoria</i> ”
55	Bharath B M Sahana A M.	Isolation, Screening, Identification of Cellulolytic Bacteria from soil and Optimization of Cellulase Production by <i>Burkholderia Sps</i> ”
56	Ranjitha Vasanth.	Isolation, Screening, Identification of Proteolytic Bacteria from soil and Optimization of Cellulose Production by <i>Pristia megaterium</i> ”
Year: 2023-2024		
57	Panchami M Ruchitha P S	Exploring Anticoagulant, Proteolytic, Fibrin(ogeno)lytic activity potential of <i>Callistemon viminalis</i> ”
58	Keerthana R Likitha M	“Exploring <i>In vitro</i> Anticoagulant activity of <i>syzygium aqueum</i> ”
59	Kruthika L Suchitra H M.	Evaluation of Anticoagulant, Antiplatelet and Fibrin(ogeno)lytic activities of protease purified from the latex of <i>Wrightia tinctoria</i> ”
60	Vandana J R Chandana M R	Screening, Identification and Isolation of Cellulase Producing bacteria from Soil Sample.
61	Rakshitha S R	Isolation, Screening, characterization and Identification of Protease producing Bacterial strain from sea water sample.
62	Mandakini M Patil Bannihatti Renuka H	Screening and Isolation of Keratinase Producing Bacteria from Dump Yards of Poultry Wastes.
63	Adhithya S	Immunological markers for Donor Screening in Renal Transplantation.
64	Swathi H V	Phytochemical Analysis, Total Phenolic Content and Biological Activities of <i>Crateva magna</i>

Research Publications:

- Edachery S, **Jayanna SG**, Shetty J, Alagundagi DB, Patil P, Shetty KS, Ghate SD, Shetty P. Epidermal growth factor receptor’s role in the regulation of switching the molecular subtypes in prostate cancer. J Appl Pharm Sci. 2025 April (IF-2.4)
- Chebet J, Ramesh M, Karegoudar TB, Nayak AS, **Satisha GJ**, Achur R. Decolourisation and toxicity reduction of azo dye Bismarck Brown by newly isolated Pseudomonas aeruginosa, JKAK strain. International Journal of Environmental Studies. 2024 Sep 2;81(5):2183-202. (IF-0.3)
- Hanumegowda SM, Srinivasa C, Shivaiah A, Venkatappa MM, Shankar RL, Lakshmaiah RK, **Gonchigar SJ**, Sannanigaiah D. Kenaf seed cysteine protease (KSCP) inhibits the intrinsic pathway of the blood coagulation cascade and platelet aggregation. Current Protein and Peptide Science. 2024 Jun 1;25(5):394-408. (IF-1.9)

- Bhalla D, Dinesh S, Sharma S, **Sathisha GJ**. Gut-Brain Axis Modulation of Metabolic Disorders: Exploring the Intertwined Neurohumoral Pathways and Therapeutic Prospects. *Neurochemical Research*. 2024 Apr;49(4):847-71. (IF-3.8)
- Goudar G, Manne M, **Sathisha GJ**, Sharma P, Mokalla TR, Kumar SB, Ziouzenkova O. Phenolic, nutritional and molecular interaction study among different millet varieties. *Food Chemistry Advances*. 2023 Oct 1;2:100150. (IF-4.7)
- Kenchappa PG, Karthik Y, Vijendra PD, Hallur RL, Khandagale AS, Pandurangan AK, **Jayanna SG**, Alshehri MA, Alasmari A, Sayed S, Shantaram M. In vitro evaluation of the neuroprotective potential of *Olea dioica* against A β peptide-induced toxicity in human neuroblastoma SH-SY5Y cells. *Frontiers in Pharmacology*. 2023 May 10;14:1139606. (IF-4.4)
- Hanumegowda SM, Srinivasa C, Shivaiah A, M. Venkatappa M, Santhosh S, **Gonchigar SJ**, Sannanigaiah D. Antioxidant and antithrombotic activities of kenaf seed (*Hibiscus cannabinus*) coat ethanol extract in Sprague Dawley rats. *Applied Biochemistry and Biotechnology*. 2023 Feb;195(2):772-800. (IF-3.1)
- Boraiah V, **Jayanna SG**, Edachery S, Shetty P, SV S, Azam G, BA K, Deshmukh SS. Potentials of *Artocarpus altilis* latex lectin (AaLL) as an antiproliferative, nematocidal, and insecticidal agent. *Biomedicine*. 2023 Mar 28;43(01):265-72. (IF-0.3)
- Edachery S, Patil P, Mohan R, Aradhya B, Shetty J, Kabekkodu SP, Santra MK, **Gonchigar SJ**, Shetty P. Loss of miR-936 leads to acquisition of androgen-independent metastatic phenotype in prostate cancer. *Scientific Reports*. 2022 Oct 12;12(1):17070. (IF-4.3)
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Patents Granted:

- Application No **30/MUM/2008 A**; Application filed on: 04/01/2008; Published on: 2010-07-23 International Classification: C07K14/195; C07K14/0

“Recombinant Lectin and method of preparing thereof” A patent filed at the Indian Patent office, Mumbai, India. Bale M. Swamy, Shashikala R. Inamdar, Hemalatha V, Radhika, S, Vishwanath B. Chachadi, Nagaraja N. Nagre, **Sathisha J. Gonchigar**, Yinita Morey and Candadai S. Ramadoss. Department of Biochemistry, Karnatak University, Dharwad-580 003, Karnatak, India & Unichem Laboratories Ltd., Biosciences R & D Centre, SID, IISc Campus, Bangalore-560012. Karnatak, India.

National / International Training/Workshops attended:

- “Developing Cancer Models *in vivo* and *in vitro*: Advantages and Limitations” from 18-22nd March 2025 organized by the Department of Biochemistry, Mangalore University, Mangalore sponsored by GIAN (Global Initiative of Academic Networks) , Govt. of India.
- "Separation and characterization of glycoprotein and glycolipid oligosaccharides" from August 11-15, 2014 at Complex Carbohydrate Research Center (CCRC), University of Georgia, Athens (UGA), USA.
- "Structural Characterization of Glycosaminoglycans" from August 18-20, 2014 at Complex Carbohydrate Research Center (CCRC), University of Georgia, Athens (UGA), USA.
- UGC sponsored National Level Workshop on “Basic Techniques in Molecular Biology and Bioinformatics” organized by the PG Department of Biotechnology, JSS College of Arts, Commerce & Science, Ooty Road, Mysore, Karnataka from 15-18th March 2013.

Area of Research Interest:

- Structure-function relationships of Plant lectins, Cancer Biology
- Phytochemistry & Nanotechnology

Scientific Area of Work Competence:

- **Protein Chemistry:** Isolation, Purification and characterization, Protein-protein interactions.
- **Proteomics:** Protein sequencing by mass spectrometry, Oligomeric structures of proteins by Nano-electro spray ionization technique.
- **Ligand-Cell surface interaction:** *In-vitro* cell-culture-interaction studies with cancer cell surface with labeled lectins using flow cytometry, confocal microscopy and western blotting techniques.
- **Animal cell culture, RT-PCR, Q-PCR,** trasfection, Western blotting, FACS, Confocal microscopy & animal studies.

Session Chair in State National/International Seminars/Conferences:

- DST-SERB sponsored International Conference on Genetics and Epigenetics of Cancer organized by the Division of Biochemistry, School of Life Sciences, JSS Academy of Higher Education & Research, Mysuru, Karnataka on 30-31st October 2023.
- National Level Conference on “Trends and Innovation in Health, Nutrition, Food and Crop Security” organized by the DOS in Biochemistry, Food & Nutrition, Biotechnology & Microbiology, Tumkur University, Tumkur, Karnataka on 21-23rd August 2023.
- National Level Seminar on “Human Diseases: Current Advances in Understanding the Molecular Mechanism & Therapy” organized by the Dept. of Biochemistry, Kuvempu University, Shankaraghatta on 17th April 2015.
- State Level Seminar on “Biotechnology in Health Care: Bench to Bedside” organized by the Dept. of Biotechnology, Sahyadri Science College, Shimoga, Karnataka on 27-28th September 2012.
- National Level Seminar on “Progress Biomedical Research and Its Impact on Human Health” organized by the Dept. of Biochemistry, Kuvempu University, Shankaraghatta on 2-3rd April 2012.
- National Level Seminar on “Challenges in Malaria and other Infectious Disease Research” organized by the Dept. of Biochemistry, Kuvempu University, Shankaraghatta on 3-4th May 2011.
- National Level Symposium on “Emerging Trends in Biotechnology” organized by the Dept. of Biotechnology, Sahyadri Science College, Shimoga, Karnataka on 20-21st March 2010.
- State Level Faculty Development Program for Science Faculty of Undergraduate College (FDP-UG) in Biochemistry sponsored by the VGST & Collegiate Education, Govt. of Karnataka and organized by the Dept. of Biochemistry, Kuvempu University, Shankaraghatta on 3-5th March 2011.
- National Level Seminar on “Recent Advances and Challenges in Biochemistry and Biotechnology (RACBB-2009)” organized by the Dept. of Biochemistry, Kuvempu University, Shankaraghatta on 1-2nd April 2009.

Invited Talks in Conferences / Workshops:

- Gave scientific lecture on “Isolation, Purification and Characterization of Bioactive peptides/ Proteins from Plants by Conventional and Recombinant DNA Techniques” in 7 days National Level Training Program from 24-30th July 2022 jointly organized by the Department of Biochemistry, Kuvempu University, Shankaraghatta, Karnataka and JSS Academy of Higher Education & Research, Mysore, Karnataka sponsored by the Department of Science Technology (DST), Government of India, New Delhi under DST-STUTI program.
- Gave a invited talk on “Chromatographic Techniques & their Applications” in seven days workshop on Molecular Biology Techniques organized by the Skill Development Center (SDC), Karnatak University, Dharwad on 28-02-2020

- Delivered a special lecture in the UGC sponsored National Symposium on “Emerging Trends and Challenges in Life Sciences” organized by the Department of Biochemistry, Davanagere University, Davanagere, Karnataka on 26-27th April 2019.
- Delivered an invited lecture on “*Xanthosoma violaceum* Lectin (XVL): A Functionalized Lectin Nanoparticle for Targeted Cancer Therapy” in the international Conference on Multidisciplinary Approach of Science: Nanotechnology- A Boon for Mankind organized by the Department of Life Sciences, School of Sciences, Garden City University, Bangalore on 18th & 19th September 2018.
- Delivered a special lecture in special lecture series organized by the Department of Biochemistry, Davanagere University, Davanagere, Karnataka on 05-09-2018.
- Delivered a special talk on “Lectins: Molecular Tools for Deciphering the Glycocode” in a special Lecture series organized by the department of Biochemistry, Tumkur University, Tumkur, Karnataka on 21st November 2017.
- Delivered a special lecture on “A Novel Lectin with Potential Inhibitory Activity toward Triple Negative Breast Cancer Cells from an Edible Tuber *Xanthosoma violaceum* in one day symposium on New Horizons in Biology organized by the Department of Biochemistry, Indian Institute of Science (IISc), Bangalore on 16th & 17th June 2016.
- Delivered an invited lecture on “Lectins: carbohydrate binding Proteins and their Diverse Applications” to MSc and BSc students in one day state level seminar “BIOFES-2015” under Jeeva Vijnana Sangha (JEEVISAM) at Government Science College, Chitradurga on 13-03-2015.
- Delivered a special lecture on “Principles and Applications of Recombinant DNA Technology” in refresher course in Biology for Karnataka State PU College Teachers jointly sponsored by the PU Board and Department of Science & Technology, Vision Group on Science & Technology, Govt. of Karnataka held at Jain Residential College, Jakkasandara, Kanakapura taluk, Ramanagara District, Karnataka on 18th December 2010.
- Delivered a special lecture on “Amino acids & Proteins” for Karnataka State PU College Teachers in the state level workshop on Chemistry sponsored by the PU Board, Govt. of Karnataka and organized by the JCBM College Shirneri, Karnataka on 30th November 2010.
- Delivered a special lecture on “Tools of Genetic Engineering” for Karnataka State PU College Teachers in the state level workshop on Biotechnology sponsored by the PU Board, Govt. of Karnataka and organized by the JCBM College Shirneri, Karnataka on 25th November 2010.

Research Papers Presented in Conferences:

- Poster presentation on “Exploring the Antimicrobial and Antiproliferative Activity of a lectin from *Scadoxus multiflorous* bulbs” in the 2nd International conference on “Trans disciplinary Research in Life sciences: Planetary Health (ICTRLS) organized by the Department of Life Sciences, Kristu Jayanthi College, Bangalore, Karnataka on 6-7th March 2025.
- Oral presentation on “Isolation, Purification & physiological Characterization of a Novel Lectin from *Scadoxus multiflorous* bulbs” in State Level Seminar on “Current Trends in Science” organized by the Science Departments, BMS College, Bangalore, Karnatak on 12-07-2023.
- Oral presentation on “*Xanthosoma violaceum* (Araceae) Lectin (XVL): A Promising Future Anticancer Agent for TNBC” in the National conference on “Trends and Innovation In Health, Nutrition, Food and Crop Security” organized by the Department of Food Science and Nutrition, Tumkur University, Tumkur on 21-23rd August 2023.
- Oral presentation on “miR-936 Regulates the ANXA2-EGFR signalling axis in the progression of hormone independent metastatic prostate cancer (mPCa)” in the National conference on “Trends and Innovation In Health, Nutrition, Food and Crop Security” organized by the Department of Food Science and Nutrition, Tumkur University, Tumkur on 21-23rd August 2023.

- Oral presentation on “In-vitro anticancer activity of targeted folate-modified 5-Fluorouracil-Loaded Mn₃O₄ nanoparticles against human lung cancer cells” in the National conference on “Trends and Innovation In Health, Nutrition, Food and Crop Security” organized by the Department of Food Science and Nutrition, Tumkur University, Tumkur on 21-23rd August 2023.
- Oral presentation on “Kenaf Seed Cysteine Protease (KSCP) inhibits the intrinsic pathway of the blood coagulation cascade and platelet aggregation” in the National conference on “Trends and Innovation In Health, Nutrition, Food and Crop Security” organized by the Department of Food Science and Nutrition, Tumkur University, Tumkur on 21-23rd August 2023.
- Oral presentation on an approach to biological synthesis of manganese dioxide nanoparticles and their applications in the detection of ascorbic acid by electrochemical method” in the 1st international conference on “Life, Chemical, and Health Sciences (ICLCHS-2019)” organized by the Department of Life Sciences, Ramaiah College of Arts, Science and Commerce (RCASC) on 24-26, October 2019.
- Presented an oral presentation on “Purification and Fractional Analysis of Methanolic Extract of Bark of *Rhus mysorensis* Possessing Anticancer Activity” in the international conference on “Biotechnological Advances in Medicinal Plants and Natural Products and Exhibition on Natural Products and Medicinal Plants Research” organized by the Department of Life Sciences, School of Sciences, Garden City University, Bangalore, Karnataka on September 19–20, 2019
- Presented a poster on “ A Biological Approach for the Synthesis of Manganese Oxide Nanoparticles” in the 11th annual conference on “New vistas in science and technology for common” organized by the Karnataka Science and Technology Academy (KSTA) and NMKRV College for Women, Bangalore, Karnataka on 1st and 2nd February 2019
- Presented a poster on “Purification and Characterization of a Novel Lectin from Edible Tubers of *Xanthosoma Violaceum* and Its *In-Vitro* Antiproliferative Activity against Triple Negative Breast Cancer (TNBC) Cell Lines” in the International conference on Recent Trends in Agriculture, Biotechnology and Food Processing, Organized by University of Agricultural Sciences, Bangalore & College of Agriculture, Hasan, on 5-7th July 2017.
- Poster presentation on “Evaluation of Lectin Activity, Antibacterial activity and protein profiling of Latex from four Artocarpus Species” in the International conference on Recent Trends in Agriculture, Biotechnology and Food Processing, Organized by University of Agricultural Sciences, Bangalore & College of Agriculture, Hasan, on 5-7th July 2017.
- Presented a poster on “Metabolomics approach to understand carotenoids distribution and to identify carotenoids rich lines in tomato” in the International conference on Recent Trends in Agriculture, Biotechnology and Food Processing, Organized by University of Agricultural Sciences, Bangalore & College of Agriculture, Hasan, on 5-7th July 2017.
- Presented a poster on "Screening and optimization of pectinase and xylanase activity from *Phytophthora meadii* causing fruit rot in areca nut" in the 2nd International conference on Frontiers in Biological Sciences organized by the Dept. of Life Science, National Institute of Technology (NIT), Rourkela, Odisha, India on 22-24th Jan 2015.
- Presented a poster on "Antioxidant Activity & Chromatographic Fingerprints of Phenolic Acids in Little millet” in the National Conference on " Emerging Avenues in Food Technology for Better Health and Safety" organized by the Department of Food Technology, TKM Institute of Technology, Kollam, Kerala on 8-9th March 2013.
- Presented a poster on "HPTLC to Develop Chromatographic Finger Prints of Phenolic acids in Foxtail millet (*Setaria italica*) Grains” in the 3rd International conference on Food Technology (Incofttech-2013) organized by Indian Institute of Crop Processing Technology, Ministry of Food Processing, Govt. of India, Tanjavur, TN on 4-5th Jan 2013.
- Presented a poster on "Isolation and Partial Purification of Lectin from *Xanthosoma violaceum* (XVL)" International Conference on Environment, Genes, Health and Disease (EGHD)- 2011 organized by the Dept. of Zoology, School of Life sciences, Bharathiar University, Coimbatore – 641046, Tamilnadu on 9-11th December, 2011.

- Presented poster on “Identification of Glycosylation Changes on Human Cervical Cancer Cell Lines, HeLa and SiHa Using a Novel TF Antigen Binding Lectin from *Sclerotium rolfsii* (SRL)” in the 5th International Symposium on Genetics, Health and Disease held on February 17-19, 2008, organized by Department of Human Genetics, Guru Nanak Dev University, Amritsar, India.
- Poster presented on “Histochemical studies of a TF antigen binding lectin from *Sclerotium rolfsii*” in the Society of Biological Chemists (INDIA), 71st Annual meeting, Punjab Agricultural University, Ludhiana, India. November 14 - 16, 2002.