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GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA



## Contact

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## Websites

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Vidwan ID – 445499

Google Scholar Citation-

<https://scholar.google.com/citations?user=xwVQsEMAAA&hl=en>

## Dr. Poojitha B.S.

Assistant Professor

### Faculty

Faculty of Engineering and Technology

### School / Program

School of Engineering

B.Tech. in Biotechnology

### Faculty Introduction

Dr. Poojitha B Sridhara Setty was awarded a PhD in Biotechnology from Davanagere University in the year 2023.

She is presently working as Assistant Professor in the Department of Biotechnology, GM University, Davanagere. Her research interests include Gene expression studies, Cell imaging and Phytochemistry, particularly in the extraction and isolation of plant-based molecules.

### Qualifications

#### Ph.D. (Cancer - Biotechnology)

Davanagere University, Davanagere, 2023

#### M.Sc (Biotechnology)

Jain University – Bangaluru, Karnataka, 2017

#### B.Sc (CBZ)

Davanagere University, Davanagere, 2015

### Experience

#### Teaching

- 2 Years at AVK college for Women

#### Industry

- 1 Year at Skanda Laboratory, Bangaluru

#### Research

- Cancer – Biotechnology



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### Training Program Attended

- ✚ Completed course on phytochemistry and pharmacognosy at Azymes Pvt Ltd, Bangalore. 2017
- ✚ Completed one day intensive workshop in simplified hydroponics at IIM Bangalore. 2018
- ✚ One day online seminar on “Fundamentals to effective oral communication in science” organized by EMBO India bioscience on 12<sup>th</sup> January 2021.
- ✚ Offline 3 days workshop on “Nanoscience and Nanotechnology” organized by Department of Nanotechnology VTU, Muddenahalli, Chikkaballapura on 10<sup>th</sup> February to 12<sup>th</sup> February 2021.
- ✚ One day online seminar on “Fly ash: A resourceful industrial solid waste for value added products” organized by Indian Ceramic Society – Karnataka chapter, 2021
- ✚ Lecture series from 22 – 28 February 2021 (National science week), conducted by VIT Bhopal University.
- ✚ Five Day Online FDP on Essential Skills and Technologies for Quality Research. From 30<sup>th</sup> March – 3<sup>rd</sup> April 2021 Conducted by PES College of engineering, Mandya, Karnataka.
- ✚ Online National webinar series on “Biotechnology for mankind” organized by DoS in Biotechnology and Bio spark Davangere University, Davangere from 16.06.2021 to 30.06.2021.
- ✚ One day online webinar on “Pollution control is a strategy to achieve ecosystem restoration” organized by DoS in Environment science and Biotechnology department Davangere university, Davangere on the occasion of “World Environmental Day” 05.06.2021
- ✚ One day Online national workshop on “Entrepreneurship in Herbal products” organized by Department of Botany Hans raj mahila Vidyalaya, Jalandhar 20.09.2021
- ✚ Two hours live training webinar on “Introduction to Research” held on 21.11.2021



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✚ One day online webinar on “The Gender gaps and the Biological sciences” organized by India Bioscience 25.11.2021

### Research Interest

- Gene expression studies
- Cell imaging and Phytochemistry, particularly in the extraction and isolation of plant-based molecules.

### Awards & Achievements

✓ Poojitha B. Sridhara Setty, Gopinath shanbhog maheshwarappa (2023) “ISOLATION OF ETHYL HENICOSANOATE FROM LEAF EXTRACTS OF PUNICA GRANATUM AND THEIR ANTICANCER ACTIVITY”

Application Ref number – 202341026943 A

✓ Poojitha B. Sridhara Setty, Gopinath shanbhog maheshwarappa, (2023). “ETHYL HENICOSANOATE FROM PUNICA GRANATUM L. AS ANTICANCER AGENT”.

Application Ref number – 202341090145

✓ **Poojitha B. Sridhara Setty, et all (2025).** “A PROCESS FOR PREPARING (E)-4-BROMO-2-(((5-METHYLFURAN-2-YL)METHYL)IMINO)METHYL)PHENOL”

Application Ref number – 202541009630

### Publication / Patents

#### PUBLICATION IN JOURNALS: SCOPUS INDEX AND WEB OF SCIENCE

1. **Poojitha B. Sridhara**, Shiva prasad Kollur, S.M. Gopinath. , **et all** “Isolation, Characterization, and Optimization of Protease; Producing Bacterium *Bacillus thuringiensis* from Paddy Field Soil”; *Pharmacognosy Research* 2021;13:89-95.

2. **Poojitha B. Sridhara**, S. , S. M. Gopinath , **et all** “ORAL CANCER AND ITS EPIDEMIOLOGY, THERAPY AND RISK FACTORS, CASE STUDIES IN KARNATAKA”: A REVIEW-*International Journal of Pharmaceutical Sciences and Research*; DOI: 10.13040/IJPSR.0975-8232.12(11).5652-61

3. **Poojitha B. Sridhara Setty**, Chandan Shivamallu. , **et all** Smoking Carcinogens and Lung Cancer – A Review. “*Asian Journal of Pharmaceutical and Clinical Research*”, Volume14(1)05-12.2021. (I.F-0.4)

4. **Poojitha B. Sridhara Setty** , S. M. Gopinath , Rajendra Prasad S. , Ali H. Bahkali , Asad Syed , and Chandan Shivamallu , “Phyto-Mediated Synthesis



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of Silver Nanoparticles Using Terminalia chebula Fruit Extract and Evaluation of Its Cytotoxic and Antimicrobial Potential”-*Molecules* 2020,25,5042; (IF:4.2)

5. **Poojitha B. Sridhara Setty**, Chandrashekar Srinivasa. “Effect of Anticoagulants on the Survival Rate in Critically COVID-19 Patients”-*Journal of Pharmaceutical Research International* volume33(52A): 6-11,2021; doi: 10.9734/JPRI/2021/v33i52a335550.

6. **Poojitha B. Sridhara Setty et al.**, (2023), “Tumor regression efficacy of punica granatum L leaf extract against K562 leukemia cancer cells. ” *Bioinformation* ,19(5):522-539. ISSN 0973-2063. Doi: 10.6026/97320630019536.

7.**Poojitha B. Sridhara Setty et al.**, (2023), “Qualitative and in silico evaluation of phytochemical constituents of leaf,peel and bark extarcts of pomegranatum (Punica *granatum* L.)” *Biomedicine*: 2023; 43(4): 1130-1137. Doi:.org/10.51248/. v4i4.3036.

8.Pooja G Singh, Anisha S Jain, **Poojitha B. Sridhara Setty**, BV Sushma, “Antimicrobial, antioxidant and anti-inflammatory activities of seeds from emblica officinalis (Gaertn.)”, *Bioinformation*.2022;18(8) : 683–691. doi: [10.6026/97320630018683](https://doi.org/10.6026/97320630018683). (Q4)

9. Raghavendra L.S. Hallur, **Poojitha B. Sridhara Setty**, “Carbon dots and their biomedical and biotechnological applications”. *Biomedicine*: 2023; 43(5). (Q4)

10. G. Prakasha, **Poojitha B. Sridhara Setty**, Shiva Prasad Kollur, “Co (III), Ni (II), Pd (II) and Pt (II) complexes derived from new benzimidazole-based imine ligands: Preparation, structure, antibacterial, HSA binding and DNA interaction studies”. Volume 565, 2024, 121981, doi: 10.1016/j.ica.2024.121981 (Q2).

11.D.M. Surendra, ,**Poojitha B. Sridhara Setty**, Shiva Prasad Kollur, **Synthesis**, “characterization and assessment of anticancer potency of oxcarbapazine with folic acid conjugated Fe<sub>2</sub>O<sub>3</sub> nanostructures as nano-drugs”. *Journal of molecular structure* 1306 (2024) 137842. (Q1)

12. Ranganatha Yadav, H. R., **Poojith B. Sridhara Setty**, Gopinath, S. M. “Unveiling the Wound Healing and Hypoglycemic Effects of Garcinia cambogia (L.) Roxb. in Streptozotocin-Induced Diabetesin Albino Wister Rats”. *Journal of chemical Health Risk* [Vol. 15 No. 2 \(2025\)](https://doi.org/10.1016/j.jch.2025.100002) (Q4)

13. Ranganatha Yadav, H. R., **Poojith B. Sridhara Setty**, Gopinath, S. M. “Therapeutic potentials of Garcinia cambogia (L.) Roxb.: phyto- chemical characterization and biological activities”.[Vol. 27 No. 1 \(2025\): Applied Biological Research](https://doi.org/10.1016/j.abr.2025.100001). DOI: <https://doi.org/10.48165/abr.2025.27.01.3> (Q4)



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14. Sanjay S. Majani, **Poojitha B. Sridhara Setty** & Shiva Prasad Kollur ., et al “Sustainable synthesis of iron doped manganese oxide nanoparticles for effective photo accelerated detoxification of tetracycline.” *Nature Scientific Reports*, (2025) 15:18081 | <https://doi.org/10.1038/s41598-025-97862-y>. (92 percentile, of 3.8 impact factor) ( Q1)

15. Pallavi M. Shanthappa<sup>1,10</sup>, H.G. Gowtham<sup>2</sup>, **Poojitha B. Sridhara Setty**<sup>3</sup>, Saleh S. Alhewairini<sup>4\*</sup>, Jayanthi Barasarathi<sup>5</sup>, “Deciphering highly potent natural abscisic acid agonists for binding to pyrabactin resistance 1 receptor through computational approaches”.*Nature Scientific Reports*, (2025) 15:18081 | <https://doi.org/10.1038/s41598-025-07113-3>. (92 percentile, of 3.8 impact factor) ( Q1)

16. M. Jyothi Priya, **Poojitha B. Sridhara Setty**, H. Kiran Kumar, D. Chandan, Chandan Shivamallu, Kasim Sakran Abass, and Shiva Prasad Kollur. “New pyrazole-based Schiff base ligand and its Ni (II) and Co (III) complexes as antibacterial and anticancer agents: Synthesis, characterization, and molecular docking studies” <https://doi.org/10.1515/mgmc-2025-0007> received February 27, 2025; accepted July 5, 2025. (Q3)

17. Sanjay S. Majani, Pallavi Singh, Pallavi Kumari, Poojitha B. Sridhara Setty, Chandan Shivamallu, Shiva Prasad Kollur “Cerium oxide nanoparticles prepared through Bio-combustion using Ficus carica as effective antioxidant, anticancer and dye degrading agent” *Nature Scientific Reports*, (2025) 15:30285 | <https://doi.org/10.1038/s41598-025-13914-3>. (92 percentile, of 3.8 impact factor) (Q1)

18. “Photo-accelerated detoxification of Norfloxacin and electrochemical sensing application of engineered deep orange-red emitting samarium doped SrCeO<sub>3</sub> nanostructures” Sanjay S. Majania, R.B. Basavarajb, K. Sureshkumarc, Poojitha B. Sridhara Settyd, Muzaffar Iqbale, , Raghavendra G. Amachawadih. <https://doi.org/10.1016/j.mtadv.2025.100634>

### **Books**

1. “Drug Repurposing Approach for Non-Small Cell Lung Cancer Targeting MAPK Signalling Pathway”. Kollur Shiva Prasad, **Poojitha B. Sridhara Setty**, ISBN:978-1-63648-416-7.

2. “Identification of Biological Species Using Fluorescent Molecular Probes” **Poojitha B. Sridhara Setty** and Kollur Shiva Prasad, ISBN:978-99993-1-790-0

Amazon link: <https://www.amazon.com/dp/9999317901>



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3. "A TEXT BOOK OF BIOCHEMISTRY AND BIOPHYSICS". Dr. Poojitha B.S., ISBN – 93-83241-25-5.

#### **Book Chapters**

1. Nanotechnology: Current Uses, Future applications in Biomedicine.

ISBN -978-1-63278-970-9

2. Anticancer potential and photocatalytic efficiency of Phyto-mediated copper oxide nanoparticles. Poojitha B. Sridhara Setty and Kollur Shiva Prasad, ISBN- 978-81-975317-1-2

DOI: <https://doi.org/10.9734/bpi/rdcbr/v4/594>

#### **Professional Membership**

-

#### **Awards & Recognitions**

#### **Administrative Responsibilities**

- Associate Director – CIGSRD
- Associate Head – IDEA LAB

#### **Workshops / FDPs / Seminars Attended**

1. Two days International virtual conference on Biological Innovations and computational exploration for pandemic challenges organised by Department of Biotechnology and Bioinformatics, Bishop Herber College, Tiruchirappalli- February 24th and 25<sup>th</sup>, 2022.
2. One day National Seminar on Green solutions exploring pollution management strategies organized by Department of Environmental Science, Kuvempu university, Shankaraghatta, on 21 march 2023.

#### **Workshops / FDPs / Seminars Organized**

- One day seminar on " Project based learning" Organised by CIGSRD On 3<sup>rd</sup> December 2024, GM University.

#### **Projects Guided**

- UG Projects- 3

#### **Funded Projects / Grants Received**



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#### Any Other Contributions

- ✓ Delivered a Successful Cancer Awareness Scientific Talk on All India Radio – Bhadravati. Date: 2<sup>nd</sup> February 2025.
- ✓ Distinguished Resource Person *National Workshop on “Harnessing Bacteriophages and One Health Approaches to Combat Antimicrobial Resistance (AMR)”* JSS Science and Technology University & Maharani’s College for Women, Mysuru Sponsored by Indian Council of Medical Research (ICMR) Dates: August 18–22, 2025.
- ✓ Poojitha B. Sridhara Setty, kannada article on plastic Title: “Plastic is not so fantastic” in kannada newspaper (Rajakiya sogadu). Dated 22.2.2021
- ✓ Poojitha B. Sridhara Setty, kannada article on flax seeds Title: “Agase ni balu sogase” in kannada newspaper (Nagaravani) dated 02.03.2021.
- ✓ Poojitha B. Sridhara Setty, kannada article on oral cancer Title: “Cancer emba monster” [cancer is a monster] in kannada newspaper (Davangere Public Voice) dated 17.08.2021.
- ✓ Poojitha B. Sridhara Setty, Kannada article on “Science in -day-to-day life” (“Dainandina karyagala hinde vignana: Sarala mattu aakarshaka”) in kannada newspaper (Sanjevani) dated 05.11.2024.
- ✓ Poojitha B. Sridhara Setty, Kannada article on “Vignanadinda samajakke: Bhavishyavannu roopisuva nanotantraganana”) in kannada newspaper (Sanjevani) dated 10.1.2025