




CURRICULUM VITAE

Snehal B. Gagare Ph.D.
Assistant Professor
MSc, NET GATE SET, Ph.D.

Department of Biotechnology
Modern College of Arts Science and
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(India)

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Proactive, Analytical, Vigilant, Responsible

Professional Recognition, Awards and Highlights:

- Filed Indian Patent entitled “Nutraceutical formulation” Application number 201921011127.
- CSIR UGC - NET LS Rank 43
- SET qualified
- GATE 2009: Percentile 87.73 AIR 1598.

Current Position and Job Profile:

- Faculty at the Department of Biotechnology, Progressive Education Society’s Modern College, Ganeshkhind, Pune- 411 016 since 2014 and teaching subjects including Microbial Biotechnology, Recombinant DNA Technology, and Animal Tissue Culture at Under- and Post- graduate levels.

Areas of Interest:

Natural Products and Bioprospecting, Nano biotechnology, Cell culture, Bioinformatics

Educational Qualifications:**Ph.D.(Biochemistry) [2020]**

Government Institute of Science, Mumbai, University of Mumbai, India

Title of Ph.D. Thesis :

“Phytochemical Screening and bioactive potential of *Sesuvium portulacastrum*”

Work highlights: The research was directed to isolate and purify phytochemicals using various analytical methods and screen them for hepatoprotection against alcohol induced toxicity in HepG2 cell lines.

M.Sc. (Biotechnology) [2009] – 70% (College Topper)

Government Institute of Science, Aurangabad, Dr. BAMU, India

Title of M.Sc. Thesis: [Project trainee at NCCS- National Center for Cell Sciences, Pune]

“Screening and Molecular characterization of Indigenous foods for Probiotic attributes”

Work highlights: The Indian fermented foods were screened for presence of probiotic bacteria, molecular characterization including PCR and sequencing of isolates and cell culture for adherence on Caco2 cell lines was done.

B.Sc. (Biotechnology) [2007] - 73.33% (College Topper)

New Arts Commerce and Science College Ahmednagar, India

Career Summary:

S. No.	Institution/Place	Position	From (Date)	To (Date)
1.	Department of Biotechnology Modern College, Ganeshkhind Pune	Assistant Professor of Biotechnology	03/07/2017	Till date
2.	Department of Biotechnology Modern College, Shivajinagar Pune	Assistant Professor of Biotechnology	22/7/2015	30/4/2016
3	Department of Biotechnology, Modern College, Ganeshkhind Pune	Assistant Professor of Biotechnology	5/7/2014	30/4/2015
3.	Department of Biotechnology, Elphinstone College, Fort Mumbai	Assistant Professor of Biotechnology	1/7/2012	30/4/2014
4.	Department of Forensic Biology Institute of Forensic Science Mumbai	Assistant Professor of Forensic Biology	1/07/2011	30/04/2012
5.	Directorate of Forensic Science Laboratories, Kalina Mumbai	Assistant Chemical Analyzer	1/2/2010	31/1/2011
6	Department of Biotechnology Ahmednagar College Ahmednagar	Assistant Professor of Biotechnology	1/7/2009	17/12/2010

Research Publications:

No. of Patent filed	:	01
No. of Gene Bank Submission	:	11
No. of Research papers	:	11
Book Chapter	:	1-Science and Technology of MoS ₂ , Published by Springer Nature
Books Published	:	1-Text book on Genetics for S.Y.B.Sc Biotechnology

13. **Snehal Gagare**, Ratna Chauhan, Dattatray J Late, Suresh W Gosavi **MoS₂: The New Avenue in biomedical applications** (Accepted, 2023) Book Title: Science and Technology of MoS₂, Published by **Springer Nature**.
12. Bansode Samiksha, **Gagare Snehal**, Kondawar Subhash, Charhate Shrikant, Shaikh Arif, Late Dattatray 2023 **PAN/TiO₂/Curcumin Composite Nanofiber Coated Face Mask with improved antibacterial activity**. *Royal Society of Chemistry Advances communicated* manuscript ID is: RA-ART-08-2023-005376 submitted in December 2023.
- 11 *Samiksha G. Bansode, Snehal Gagare, Subhash B. Kondawar Shrikant Charhate, Arif D. Sheikh*, Dattatray J. Late** 2024 **Electro spun PAN/CuO/Curcumin Composite Nanofiber Mat for Efficient Antimicrobial Face Mask**. New Journal of Chemistry published by Royal Society of Chemistry **Impact factor: 3.3**.
10. Prateik Shinde, **Snehal Gagare** Dattaray Late. 2020. TiO₂ nanoflowers based humidity sensors and cytotoxic activity *Royal Society of Chemistry Advances* doi: 10.1039/d0ra05007e **Impact Factor: 3.119**
09. **Snehal Gagare, Surekha Chavan**.2021. Effect of *Withania somnifera* and *Solanum nigrum* on drought induced stress in wheat. *IJBAT* (1) :91-100
08. **Snehal Gagare, Surekha Chavan, Sagade** .2021. Antibacterial potential and phytochemical screening of *Physalis angulata* and *Solanum virgianum*. *IJBAT* (1): 36-40

07. **Snehal B. Gagare**, Pratima S. Jadhav. 2017. Comparative Phytochemical profiling of various extracts, from different parts of *Sesuvium portulacastrum* using GCMS, FTIR and ICP AES. **International Journal of Engineering, Science and Mathematics**6(6)
06. **Snehal B. Gagare**, Pratima S. Jadhav. 2018. Chromatographic separation of phytoconstituents from *Sesuvium portulacastrum*. P. **Indian J. Research**.7(4), 462-464.
05. **Snehal B. Gagare**, Pratima S. Jadhav. 2018 Phytochemical Evaluation of *Sesuvium portulacastrum* Extracts, **Bioinfolet** 15(1)
04. **Snehal B. Gagare**, Pratima S. Jadhav. 2017. Molecular phylogeny of *Sesuvium portulacastrum* using 18S nuclear ribosomal gene sequence, **Global journal for research analysis**, 6 (5).
03. **Snehal B. Gagare**, Pratima S. Jadhav. 2018. Hepatoprotective and antibacterial potential of purified active components from *Sesuvium portulacastrum* extracts, **Journal of Chemistry and Chemical Sciences** 8(4)
02. **Snehal B. Gagare**, S.L. Chavan. 2015. Effect of microwave treatment on bioactive compounds of *Spinacia oleracea* and *Anthem graveolens*. **Journal of Basic Sciences**.
01. **Snehal B. Gagare**, S.L. Chavan. 2013 Effect of irradiation on *Rhizobium* :strain improvement by UV irradiation increases yield of *Triticum aestivum* .**International Journal of biological sciences Flora and Fauna**

Sequences submitted to GenBank: 8

KC 146551, MZ066819, MZ066820 MZ066821, MZ066822, OR672600, OR672601, OR672602

Seminar/Conference/Workshop /Invited Speaker:

1. Invited speaker for a talk on “Soft skills: Paving the way for the dream job “at the Jijamata College of Arts Science, Bhenda Ahmednagar on 10th February 2024.
2. Hands on training on PCR based diagnosis for Fish Diseases organized by Central Institute of Fisheries education Mumbai, 20-23rd September 2023
3. Hands on workshop on Protein docking and analysis organized by Sathyabama University 7-9 September 2023.
4. Guest speaker for a talk on “Cell Signaling in plants “at the department of Botany, Jijamata College of Arts Science, Bhenda on 11th January 2022.
5. Guest speaker for a talk on “Nanotechnology in Agriculture-a step towards green revolution “at the department of Physics Modern College Ganeshkhind, Pune on 12th February 2021.
6. Organizing Committee member of International Conference on Biotechnology: Perspective and Challenges under the aegis of DBT, India at the Department of Biotechnology, Modern College of Arts, Science and Commerce, Pune from 14-15 February 2020.
7. Organized workshop (hands-on-training) under aegis of Student welfare SPPU on “Biochemical Separation Techniques” at the Department of Biotechnology, Modern College of Arts, Science and Commerce, Pune on 30th January 2020

University (SPPU, MU) Assignments:

1. Worked as Chairman for paper setting of SY BSc Biotechnology for session February- March 2024 of Savitribai Phule Pune University (SPPU), Pune
2. Worked as Chairman for CAP Oct/ November 2023 of Savitribai Phule Pune University (SPPU), Pune
3. Worked as Paper Setter and External Examiner for SPPU Practical Examinations
4. Worked as Evaluator for Paper Checking for BSc Biotechnology.
5. Worked in Syllabus construction for MSc Forensic Science (Mumbai University) paper setter (2012-2013).

Paper presented in International and National Symposia/ Seminars:

1. **Snehal Gagare** Sanjay Kharat (2022). *Aeromonas* : A potential threat to farmed fishes in Pune presented at the National conference on Agricultural Economics by Dapoli Krishi Vidyapeeth held at Goa **Best Oral presentation award.**
2. **Snehal Gagare Chavan S L (2016)**. *Sesuvium portulacastrum*: A promising halophyte presented at International Conference on "Impact of chemistry on Environment held at NACS Parner. **Best Oral presentation award.**
3. **Snehal Gagare Chavan S L (2016)**. **Antioxidant potential of *Sesuvium portulacastrum*** presented at International Conference on Herbal and synthetic drugs held at AbedaInamdarCollegePune.
4. **Snehal Gagare Pratima S Jadhav (2013)**. Phylogenetic analysis of *Sesuvium portulacastrum* using 18S gene sequence" presented at National Conference in Botany held at NACS Ahmednagar **Best Oral presentation award.**
5. **Snehal Gagare S G Gupta (2008)**. "Technologies to Curtail Global warming." Selected among the top 8 candidates for State Level Inter University Research Festival "Avishkar 2008" Hosted by SNDT Mumbai'.
6. **Snehal Gagare (2007)** "Biosynthesis of Silver Nanoparticles from fungus *Verticillium*". Second prize at District Level Inter University Research Festival 2007
7. **Snehal Gagare S D Kulkarni (2006)**"Antimicrobial & Antioxidant Properties of *Allium sativum*" at the "National Conference on Modern Innovations in Biotechnology and Biodiversity Conservation held at Amravati.

Technical Expertise:

1. Molecular biology & Immunology: Nucleic acid isolation and processing, Transformation selection of recombinant, PCR, Immunoblotting Separation of Peripheral blood mononuclear cells
2. Cell Culture: Sub culturing and Maintenance of Cell Lines MTT assay.
3. Protein Biochemistry: Protein isolation and Processing, gel electrophoresis.
4. MS Office, Bioinformatics.

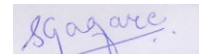
Personal Details:

Date of Birth: 30 / 08 /1986
Gender: Female
Languages known: Hindi,Marathi, English
Nationality: Indian

Declaration:

I hereby declare that the information furnished is true to my knowledge and belief.

Place: Pune
Date: 14/12/2023



Snehal Gagare.