

## CURRICULUM VITAE



**Dr. Sneha Chinta**

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### PERSONAL DATA:

**Date of Birth** : 3<sup>rd</sup> June 1987

**Sex** : Female

**Nationality** : Indian

**Marital Status** : Married

**Languages** : English,  
Hindi,  
Kannada &  
Telugu

### PERMANENT ADDRESS:

Mrs. Sneha Chinta  
# 432B/22C, Mudugol Site  
Kusgal Road  
Hubli  
Dist: Dharwad  
St: Karnataka (India).  
Pin: 580023

### Academic Record:

1. **Ph. D. Biotechnology** (2018) at Karnatak University, Dharwad.
2. **M. Sc. Biotechnology** - First class with Distinction (79.99%) in 2009 at Karnatak University of Dharwad. (Topper of the University).
3. **B. Sc. Biotechnology** - First class with Distinction (79.16%) in 2008 at P.C Jabin Science College Hubli, Karnatak University, Dharwad,

### Fellowships and Awards Received:

1. **UGC-UPE Ph.D. Fellowship 2013-2014**  
Karnatak University, Dharwad, India.
2. **Rajiv Gandhi National Fellowship (RGNF) 2013-2018.**

### Teaching Experience :

**6 Months** – Worked in Nandi Diagnostic Centre Hubli.

**1 year** – Worked as a lecturer in Kittle science college Dharwad for B.sc Biotechnology for I, II and III year students.

**5 years** - Engaged Theory and Practical for M.Sc Biotechnology and Microbiology students as per UGC/University regulation during the tenure of Ph.D from 2013-2017 at Department of Biotechnology and Microbiology, Karnatak University, Dharwad.

**2019 till dated-** working as lecturer in P C Jabin Science College for department of Biotechnology and Microbiology and guiding M.Sc Projects for PG Biotechnology.

### Research Area of Interest:

1. Drug Screening
2. Phytochemical Analysis
3. Screening of Nanoparticles in Blood Brain Barrier
4. Screening of Alanine Aminase transferase
5. Isolation of DNA and RNA
6. Molecular Biology

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**Research experience:**

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- M.Sc Project entitled: **Phytochemical Analysis, Antimicrobial Activity And Production Of Antibodies From Ethanolic Extract Of *Tinospora Cordifolia* in Mice.**
  - ❖ Highlights of the thesis:
    - Extraction of *Tinospora cordifolia* in solvents by soxhlet apparatus.
    - Phytochemical analysis
    - Antioxidant activity
    - Antimicrobial activity by paper disc diffusion method
    - Immune modulation: Test showing the increase in the production of antibodies
      - (a) Haemagglutination test.
      - (b) Zinc Sulphate ( $\text{ZnSO}_4$ ) turbidity test.
      - (c) Protein estimation by SDS-PAGE.
- Ph.D Thesis Title "**Silkworm an Invertebrate Model for Screening Drug Molecules**"
  - ❖ Highlights of the thesis:
    - Toxicity evaluation of organic solvents used for dissolving synthetic drugs.
    - Pharmacokinetic evaluation of drug metabolism in silkworm by HPLC and docking studies.
    - Study of drug fragmentation pathway in silkworm by LCMS.
    - Evaluating tissue injury induced by cytotoxic drugs during screening by ALT activity in silkworms.
    - Silkworm a potential high-throughput screening in nano medicine for drug delivery system.
- Worked as Senior Research Fellow under the project entitled "**Exploration of Halophytes and Salt Resistance Genes for Bioamelioration of Salt Affected Soils**" from 30/11/2018 to 30/03/2019

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**Achievements:**

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- Reviewer for the journal "Current Research in Toxicology".
- Organizing member for conducting National conference.

- First poster Award at Two days **National Conference entitled “Frontiers in Biological Research”, at P C Jabin Science College, Hubballi**, on 1<sup>st</sup> and 2<sup>nd</sup> July 2022.
- First oral Award at Two days **National Conference entitled “Frontiers in Biological Research”, at P C Jabin Science College, Hubballi**, on 1<sup>st</sup> and 2<sup>nd</sup> July 2022.
- 1<sup>st</sup> Rank in Karnatak University in M.sc Biotechnology.

### **Research Projects Guided:**

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1. “*In-vitro* Analysis Of Cytotoxic Effects Of The Bioactive Compounds Present In Sauerkraut- A Fermented Food”
2. Comparative Evaluation of Antioxidant, DNA Cleavage and *In-vitro* cytotoxicity of White Cabbage and Red Cabbage Extracts - Brassicaceae family
3. “A Review On The Potential Role Of Insect Gut Micro biome On Biodegradation Of Plastic Waste”
4. A review “Bioaugmentation Of Antibiotic Contaminant Residues In Soil Using Bacteria Absorbed On Agriculture Residues”.
5. Isolation, Screening and Characterization of Bio surfactant producing bacteria from soil and water for their potential applications.
6. Evaluation of cytotoxic effect of silver nanoparticles synthesized from sheep fur extract.
7. Synthesis of silver nanoparticles and hydroxyethyl cellulose or wound healing
8. Production of Bioethanol from Hibiscus flowers using fermentation technology.
9. Acetic acid production.
10. Bioethanol production from Jowar.
11. Production of vinegar from *Ananas comosus* (Pineapple).
12. Production of wine from hibiscus flower.
13. Comparative study of bear and ginger beer.
14. Solid state fermentation using rice and wheat husk.
15. Effect of fermentation on metabolic profile of selected vegetables.

### **Experimental Research skills:**

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#### **1. Pharmacokinetics:**

Using PK solver for analysis of the pharmacokinetics.

#### **2. Invertebrate animal model:**

Rearing and Handling of silkworm, drug toxicity studies, Brain Dissection, Blood brain barrier.

#### **3. Animal Handling:**

Handling of Swiss Albino Mice, Drug administration (Oral, i.p), Dissection of ovary and testis, collection of blood sample.

**4. Molecular Biology Techniques:**

Electrophoresis (Agarose, SDS- PAGE), PCR, DNA and RNA isolation and extraction, DNA purification, Plasmid isolation, Protein isolation and estimation, Gel elution of DNA, Restriction digestion, Ligation, Transformation, Gene Cloning.

**5. Protein chemistry:**

Protein Isolation and Purification, Column Chromatography, HPLC, SDS-PAGE.

**6. Microbiology:**

- Isolation of organism and pure culture techniques and motility tests
- Bacterial growth curve
- Simple, differential (Gram, Acid fast), Endospore, and capsule staining techniques
- VAM isolation
- Indole test, voges proskaeur, citrate utilisation, starch hydrolysis test, gelatine hydrolysis test, catalase and oxidase tests.

**7. Plant Tissue Culture:**

Various methods of micropropagation, synthetic seed preparation and chloroplast isolation

**8. Phytochemistry and Pharmacology:**

Isolation of phytochemicals (Hot and Cold Extraction), Qualitative Analysis of Phytochemicals, Purification of Phytochemicals and various pharmacological activities like Antimicrobial Activity, Antifungal Activity, Anticancer Activity.

**9. Immunodiagnostic Methodologies:**

All types of Immunodiffusion, Immuno electrophoresis and Immunoassay techniques, ELISA, Widal test, Blood group testing, Rocket Immuno electrophoresis, Precipitation of Immunoglobulins, Haemataological analysis ( Blood Glucose, Liver Function test, Glutathione , antioxidant enzymes).

**Publication Highlights:**

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# Isolation and Screening of Biosurfactant Producing Bacteria from Soil and Water for their Potential Applications. Deepak Mundrikeri, G Sanjana, Abhishek Kannur, Suman Bishnoi, Dr. Sneha Chinta, Dr. Badarinath Kulkarni, Dr. Geetanjali Kamble. Ijrasnet Journal For Research in Applied Science and Engineering Technology. ISSN: 2321-

9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 10 Issue XII Dec 2022.  
<https://doi.org/10.22214/ijraset.2022.48314>.

# Screening of organic solvents in an silkworm, an invertebrate animal model. Sneha Chinta and Shyam Kumar Vootla. International Journal of Recent Scientific Research. Pp 22981-22985, 2018.

# Pharmacokinetic Evaluation of Ofloxacin in an Invertebrate Animal Model Silkworm, *Bombyx mori*. Sneha Chinta and Shyam Kumar Vootla. Applied invitro toxicology. 2017.

#### **Papers presented at conferences:**

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1. Participated and presented in an **International Conference** entitled, “**Recent Advances in 3R’s and Laboratory Animals**”, at JNU Delhi on 25<sup>th</sup> and 26<sup>th</sup> November 2017 (Poster Presentation).
2. Participated and presented in an **International Conference** entitled, “**6<sup>th</sup> International Science Congress-2016**”, at Hutatma Rajguru Mahavidyalaya, Pune, on 9<sup>th</sup> and 10<sup>th</sup> December 2016 (Oral Presentation).
3. Participated and presented in **National Conference** entitled “**Bioinnovations2020**”, at **P C Jabin Science college, Hubballi**, on 29<sup>th</sup> Feb 2020 (Oral Presenataion).
4. Participated and presented in Two days **National Conference** entitled “**Frontiers in Biological Research**”, at **P C Jabin Science college, Hubballi**, on 1<sup>st</sup> and 2<sup>nd</sup> July 2022 (Oral Presenataion).
5. Participated and presented in Two days **National Conference** entitled “**Frontiers in Biological Research**”, at **P C Jabin Science college, Hubballi**, on 1<sup>st</sup> and 2<sup>nd</sup> July 2022 (Poster Presenataion).

#### **Conferences & Workshops :**

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1. Participated in State level workshop entitled, “**Society, Research and Development**” at Karnatak University, Dharwad on 19<sup>th</sup> February 2018.
2. Participated in **National workshop** entitled, “**Research writing skills and Plagiarism**” at Karnatak University, Dharwad on 3<sup>rd</sup> February 2017.

3. Participated in **International workshop** entitled, “**Liquid Chromatography Mass Spectroscopy**” at Waters Global Services, Bangalore on 24-26<sup>th</sup> September 2015
4. Participated in **National workshop** entitled, “**Current state of art computational methods in accelerating the discovery of novel biopharmaceuticals**” at JSS College of Pharmacy, Ooty, Tamilnadu on 20-21<sup>st</sup> March 2015

#### **Conferences**

6. Participated in an **International Conference** entitled, “**Recent Advances in 3R’s and Laboratory Animals**”, at JNU Delhi on 25<sup>th</sup> and 26<sup>th</sup> November 2017.
7. Participated in an **International Conference** entitled, “**6<sup>th</sup> International Science Congress-2016**”, at Hutatma Rajguru Mahavidyalaya, Pune, on 9<sup>th</sup> and 10<sup>th</sup> December 2016.
8. Participated in **National Seminar** entitled “**Recent Trends in Environmental and Sustainable energy**”, at Karnatak University, Dharwad on 10<sup>th</sup> August 2015.
9. Participated in an **International Symposium** on “**Chemical Biology- Drug Discovery**”, at University of Mysore, Mysore on 9<sup>th</sup> and 10<sup>th</sup> January 2014.

#### **Computer skills:**

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MS office, Image J, Origin and SPSS Statistical analysis of the research data.

#### **References:**

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##### **Prof. V. Shyam Kumar**

##### **Research Supervisor**

Professor & Chairman, P.G. Dept of Biotechnology & Microbiology  
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Karnataka, India  
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##### **Prof. Shanmukh Kamble**

Professor,  
Department of Physcology,  
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**Declaration:**

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I hereby declare that the information given by me is true to the best of my Knowledge.

**(Dr. Sneha Chinta)**