

## CURRICULUM VITAE

### Dr. Sameer S. Bhagyawant

**Sr. Lecturer & Coordinator,  
School of Studies in Biotechnology,  
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**Date of Birth: 04 April 1974**



### Educational Qualifications:

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2003 **Ph.D. (Biotechnology)** National Chemical Laboratory, Pune (registered at S.R.T.M. University, Nanded)

1996 **M.Sc. (Biotechnology)** Dr. B. A. Marathwada University, Aurangabad (M. S.)

1994 **B.Sc. (Biology)** S. G. B. Amravati University, Amravati (M. S.)

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**Awards Received:** Merit First in M.Sc. Biotechnology (Gold Medal)

**Teaching & Research Experience:** ~14 years

### Research Interest :

**Genomics:** Plant genome analysis employing PCR-based markers , Assessment of genetic diversity, Genetic fingerprinting of chickpea and its wild relatives using RAPD /ISSR markers

**Proteomics:** Characterisation of seed storage proteins to elucidate differentially expressed proteins in chickpea/legumes employing 2D-gel electrophoresis coupled with mass spectroscopy

### Research Guidance:

- a) Ph.D. (awarded) : Five
- b) M.Phil. (awarded) : Three
- c) Ph.D. (Registered) : Eight
- d) M. Sc. Dissertations : Fifteen

**Research Papers Published: 38 (National & International), Citations: 81, h-index: 4**

### Employment Details:

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January 2013- till date

**Asst. Prof. (Stage- III)** As per UGC regulations 2009, Jiwaji University, Gwalior

January 2008 - January 2013

**Sr. Lecturer**, Jiwaji University, Gwalior

January 2004 - January 2008

**Lecturer**, Jiwaji University, Gwalior

October 2003 - January 2003

**Lecturer**, Global Institute of Paramedical Sciences, Nashik (M.S.)

August 1997 - March 1998

**Lecturer** (*Ad-hoc* on full scale), Govt. Institute of Science, Aurangabad (M. S.)

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### Administrative Experience:

- Coordinator- School of Studies in Biotechnology
- Programme officer-National Service Scheme (NSS) since 1st Oct. 2010
- Member of anti-ragging committee- SOS in Biotechnology
- As a member of affiliation/inspection committee to various affiliated colleges of Jiwaji University during every academic year as appointed by Honorable Vice-Chancellor

### Managing Positions:

- Member of Board of studies (BOS) in Biotechnology, Jiwaji University, Gwalior. Actively participate in the curricula development vis-a-vis semester and CBCS pattern syllabus
- Member of BOS, Bundelkhand University, Jhansi (2013-2014)
- Member of Research Policy, Ethics and Environment Policy (2015)
- Member of Academic and Publication committee
- Member of University Newsletter *PANORAMA* and instrumental in publication of all issues
- Member of examination committee (paper setting, CET, Ph.D. examinations etc.)
- Worked as an external expert for STA and SRF-selection at DRDE, Gwalior
- Internal and external examiner as and when deputed by the University authorities for affiliated colleges in every academic session actively in addition to School of Studies in Biotechnology
- Worked as a teacher-in charge for the University elections held on 23 Sept. 2012.
- Worked as an expert for Ph.D. thesis evaluation of Banasthali Vidyapith, Banasthali (Rajasthan), S.R.T.M. University, Nanded (M.S.) and many other universities as well.

### Research Projects : As a Principal Investigator (04) :

- Pharmacological studies of chickpea lectin for its mitogenic antifungal and anti HIV-1 reverse transcriptase activities, UGC, New Delhi funded (2012-2015) **Total Budget: 8.40 Lakhs (ongoing)**
- Isolation and characterization of bioactive peptides from the seeds of *Cicer arietinum* L. (2016) - Financial support for generation of facilities for innovative research work- Accorded by Prof. Sangeeta Shukla, Hon'ble Vice-Chancellor, Jiwaji University, Gwalior **Total Budget: 02 Lakh (ongoing)**
- Isolation and characterization of antinutritional factors in *Jatropha curcus* L., DRDE-Gwalior funded Task Project (2011-2012) **Total Budget: 4.50 Lakhs (completed)**
- Proteomics approach for improvement of quality traits in chickpea-funded by MPCOST, Bhopal (2007-2009) **Total Budget: 2.18 Lakhs (completed)**

### **Organized Seminar / Workshops: As an organizing secretary (06):**

- **Organized** 15 days Hand on Training for “Techniques in DNA & Protein analysis” Sponsored by M. P. Biotechnology Council, Bhopal **during 18 March – 01 April 2015** at our School. Total 25 participants underwent training.
- **Organized** “Competitive events in Biotechnology for Gwalior Districts” **on 12-13 February 2014** at SOS in Biotechnology, Jiwaji University, and Gwalior successfully. This is the Maiden event that is organized by our School on the campus. Total 100 participants took part in the event.
- **Organized** 15 days Hand on Training for Molecular-and-Immuno Diagnostics Sponsored by M. P. Biotechnology Council, Bhopal **during 25 Feb- 11 March 2014** at our School. Total 30 participants underwent training.
- **Organized** “National Seminar cum Workshop on Applications of Bioinformatics in Life Sciences” **on 08-09 March 2013** at Jiwaji University, Gwalior successfully. I was the organizing secretary to this academic event. Total 100 participants took part in the training.
- **Organized** “National Symposium on Frontiers in Biochemistry and Biotechnology” **on 16-17 March 2012** at Jiwaji University, Gwalior successfully. About 300 participants took part in the symposia.
- **Organized** public awareness programme of Department of Atomic Energy, BARC, Mumbai on **February 20, 2007** at Jiwaji University, Gwalior.

### **Invited talks / Chairmanships at National or International Conference: (04)**

- **Delivered an invited talk** at “National Conference on Recent Trends in Applied Microbiology, Human Health and Environment” Organized Bundelkhand University, Jhansi during March 27-28, 2015.
- **Delivered an invited talk** on “Characterization of Chickpea Proteins using Proteomic Techniques” during VIIIth National Conference on Biotechnology, Biodiversity & Environment” organized by Govt. Science College, Rewa (M.P.) during April 19-20, 2013.
- **Chaired the technical session** at “National Conference on Human Papilloma virus and Control of Cervical Cancer- Current Scenario (HPVCON 2013)” organized by College of Life Sciences & Cancer Research Institute, Gwalior during 16-17 March, 2013.

- **Evaluation of** young scientist contest at “National Seminar cum workshop on Molecular Biology’ organized by VISM, Gwalior, during 27-28 January 2013

### **Academic Meetings Attended:**

**Conferences: 27** (National & International) **Workshop/Training Courses: 08**

### **Reviewer/ Editorial Board:**

- Physiology & Molecular Biology of Plants ; Springer (reviewer)
- European Journal of Biomedical Research (ISSN : 2428-5544)
- International Journal of Universal Botany & Microbiology

### **Presiding Officer:**

Loksabha, Vidhan Sabha and Nagar Nigam elections

### **As NSS Programme Officer:**

- Organized ‘Shrumdan’ on the occasion of Environment day on 5<sup>th</sup> June 2011 at Charak Udyan in association with Environment sciences dept. On this occasion, we arranged a lecture on Environment awareness by a great socialist and Environmentalist Mr. Hiralal Yadav, Mumbai.
- Organized five days NSS camp for Biotechnology students unit on 28<sup>th</sup> March 2012 to 03 March 2012. Equally put together various activities like orientation lectures, self development, dental check up and blood donation camp. Received a letter of appreciation for organizing such camp from G.R. Medical College, Gwalior.
- Organized plantation programs in the East campus of the University during 15 August 2013, 2014 and 2015.
- Organized ‘Shrumdan’ programme on 2 Oct. and 5 June 2013, 2014 and 2015 on the occasion of Gandhi Jayanti and World Environment day.

- Organized orientation programme for newly admitted students during August 2014 & 15 Sept. 2015 on the topic “How to get success in life” delivered by Prof. S. S. Sandhu, RDVV, Jabalpur.
- Organized promotional lecture vis-à-vis “How to write Research Paper & Impact Factor” delivered by Prof. S. N. Bagchi, RDVV, Jabalpur. On 16 Sept. 2015.

### Orientation / Refresher Courses Attended: (04)

- **Participated in the Orientation** Course at Dr. B.A. Marathwada University, Aurangabad on January 10 to February 07, 2006 and obtained ‘A’ grade
- **Participated in the Refresher** Course in Life Sciences at Kannur University, Kannur (Kerala) on March 03-23, 2011 sponsored by UGC and obtained ‘A’ grade
- **Participated in the Refresher** Course in Life Sciences at University of Pune, Pune on October 03- 23, 2012 sponsored by UGC and obtained ‘A’ grade
- **Participated in the Refresher** Course in Life Sciences at R. D. University, Jabalpur (M.P.) on June 02-21, 2014 sponsored by UGC and obtained ‘A’ grade

### Life Memberships:

**Annual Member:** American Chemical Society (ACS), Washington, D.C., U.S.A.

**Life Member:** Proteomics Society, CCMB-Hyderabad

**Life Member:** Indian Biophysical Society, Calcutta

**Life Member:** Indian Botanical Society

**Life Member:** The Society for Science of Climate Change and Sustainable Environment, (SSCE), New Delhi

**Life Member:** Mumbai Immunology Group (MIG), Mumbai

**Life Member:** The Indian Society of Cell Biology (ISCB), Allahabad

## Sequences submitted to NCBI-data bank:

Total 36 Internal Transcribed Spacer sequences (complete and partial) of isolates of various *Cicer arietinum* accessions are submitted to NCBI-databank (<http://www.ncbi.nlm.nih.gov/nuccore/JN599121.1>)

### Internal transcribed spacer 1, complete sequence

JN599102.1--- JN599103.1 JN599104.1 JN599105.1 JN599106.1 JN599107.1 JN599108.1  
JN599109.1 JN599110.1 JN599111.1 JN599112.1 JN599113.1 JN599114.1 JN599115.1  
JN599116.1 JN599117.1 JN599118.1 JN599119.1 JN599120.1 JN599121.1

### Internal transcribed spacer 2, partial sequence

JN599122.1 JN599123.1 JN599124.1 JN599125.1 JN599126.1 JN599127.1 JN599128.1  
JN599129.1 JN599130.1 JN599131.1 JN599132.1 JN599133.1 JN599134.1 JN599135.1  
JN599136.1 JN599137.1 of *Cicer arietinum* isolates.

## Book Published :

**Sameer S Bhagyawant** and Nidhi Srivastava (2015); Plant Biotechnology, Horizon Books Publisher-New Delhi, ISBN:-978-93-84044-81-7

## Research Papers / Poster Presentations: (20)

## Research Publications: (38)

1. P. Yadav, K. K. Koul, N. Shrivastava, M. J. Mendaki and **S. S. Bhagyawant** (2016). ITS-PCR deciphers molecular phylogeny in chickpea. **Plant Biosystems** doi:10.1080/11263504.2016.1179694 (IF- 1.9)
2. **S. S. Bhagyawant**, N. Gupta and N. Shrivastava (2015). Effects of gamma irradiation on chickpea seeds vis-a-vis total seed storage proteins, antioxidant activity and protein profiling. **Cellular & Molecular Biology**, 61(5):79-83. doi:10.14715/cmb/2015.61.5.14 (IF-1.27)

3. P. Yadav, K. K. Koul, N. Shrivastava, M. J. Mendaki and **S. S. Bhagyawant (2015)**. DNA polymorphisms in chickpea accessions as revealed by PCR-based markers. **Cellular & Molecular Biology**, 61(5):84-90. doi:10.14715/cmb/2015.61.5.15 (IF-1.27)
4. **S. S. Bhagyawant (2015)**. RAPD-SCAR Markers: An interface tool for authentication of traits. **Journal of Biosciences and Medicines**, 4:1-9. doi:10.4236/jbm.2016.41001 (Google IF-0.38) (Sci cited)
5. Pramod Kumar Singh, Nidhi Shrivastava, Krishna Chaturvedi, **Sameer. S. Bhagyawant (2016)**. Characterization of seed storage proteins from chickpea using 2D electrophoresis coupled with mass spectrometry. **Biochemistry Research International**. doi:10.1155/2016/1049462 (PubMed cited)
6. Neha Gupta, Nidhi Srivastava, Pramod Kumar Singh, and **Sameer. S. Bhagyawant (2016)**. Phytochemical evaluation of moth bean (*Vigna aconitifolia* L.) seeds and their divergence. **Biochemistry Research International**. doi:10.1155/2016/3136043 (PubMed cited)
7. **Bhagyawant S.S**, Gupta N. and Srivastava N., (2015). Biochemical Analysis of Chickpea Accessions vis-a-vis; Zinc, Iron, Total Protein, Proline and Antioxidant Activity. **American Journal of Food Science and Technology**, 3:158-162. doi:10.12691/ajfst-3-6-3 (Sci cited)
8. **Sameer. S. Bhagyawant**, Neha Gupta, Ajay Gautam, S.K. Chaturvedi, Nidhi Shrivastava (2015). Molecular Diversity Assessment in Chickpea through RAPD and ISSR Markers. **World Journal of Agricultural Research**, 3(6):192-197. doi:10.12691/wjar-3-6-2 (Sci cited)
9. **Sameer S. Bhagyawant**, Ajay Gautam, S.K. Chaturvedi, Nidhi Shrivastava (2015). Hemagglutinating activity of chickpea extracts for lectin. **International Journal of Pharmaceutical Phytopharmacological Research**, 5(3):1-6. (IF-0.852)
10. Pramod Kumar Singh, Nidhi Shrivastava, Bechan Sharma, **Sameer. S. Bhagyawant (2015)**. Effect of Domestic Processes on Chickpea Seeds for Antinutritional Contents and Their Divergence. **American Journal of Food Science and Technology**, 3(4):111-117. doi: 10.12691/ajfst-3-4-3 (Sci cited)
11. Pramod K. S, Neha. P and **Sameer. S. B. (2015)**. Improvement of chickpea using molecular markers. **Indo American Journal of Pharmaceutical Sciences**, 2 (4): 857-862.
12. Anju Meshram, Nidhi Srivastava and **Sameer Suresh Bhagyawant (2016)**. Identification of phytoconstituents present in *epipremnum aureum* (linden and andre) G. S. bunting by gc-ms. **International Journal of Life Sciences and Review**, 2(3):45-51. doi:10.13040/IJPSR.0975-8232



13. S. Gautam, **S. S. Bhagyawant** and N. Srivastava (2016). Growth and non-enzymatic antioxidative studies in *in-vitro* grown safflower (cv a-1) seedlings under copper stress. **International Journal of Life Sciences and Review**, 2(3): 52-60. doi: 10.13040/IJPSR.0975-8232
14. Pramod Kr. Singh, Neha Panwar, **Sameer S Bhagyawant** (2015). Evaluation of Genotypic variation using SDS-PAGE. **European Journal of Biotechnology and Bioscience**, (7):39-40.
15. Pramod Kumar Singh, Himanshu Sharma, Nidhi Srivastava, **Sameer S. Bhagyawant** (2014). Analysis of Genetic Diversity among Wild and Cultivated Chickpea Genotypes employing ISSR and RAPD Markers. **American Journal of Plant Sciences**, 5:676-682. doi:10.4236/ajps.2014.55082 (Google IF-0.96)
16. Nidhi Srivastava, **Sameer S. Bhagyawant** (2014). In vitro accumulation of lead nitrate in safflower seedling and its impact on plant protein. **Plant Knowledge Journal**, 3(2):39-46. (Peer reviewed international journal)
17. Meshram Anju, Gautam Sanskriti, **Bhagyawant Suresh Sameer**, Srivastava Nidhi (2014). In Vitro Accumulation of Cadmium Chloride in Papaya Seedling and its Impact on Plant Protein. **International Journal of Ayurveda and Pharma Research**, 2(3):54-62. (Peer reviewed international journal)
18. Pramod Kumar Singh, Ajay Kumar Gautam, Uday Raj Akare, **Sameer S. Bhagyawant** (2014). Studies on enzymatic changes and their impact on anti-nutritional factors of pulses during germination. **Bioscience Biotechnology Research Communication**, 7(1):27-31.
19. Singh P. K., Gautam A.K., Panwar H., Singh D.K. Srivastava N. **Bhagyawant S.S.** Upadhyay H. (2014). Effects of Germination on Antioxidant and Anti-Nutritional Factors of Commonly Used Pulses. **International Journal of Research in Chemistry and Environment**, 4:100-1004.
20. Sanskriti Gautam, **Sameer S. Bhagyawant**, Nidhi Srivastava (2014). Detailed Studies on Therapeutic Properties, uses and Pharmacological Applications of Safflower (*Carthamus tinctorius* L.). **International Journal Ayurveda and Pharma Research**, 2(3):5-16. (Peer reviewed international journal)
21. Gautam S, Meshram A, **Bhagyawant S S** and Srivastava N. (2014). *Ficus Religiosa*-Potential role in pharmaceuticals. **International Journal of Pharmaceutical and Science Research**, 5(5):1616-23. doi:10.13040/ijpsr.0975-8232.5 (5).1616-23 (Sci cited)
22. P.K. Singh, S. Sohani, N. Panwar and **S.S. Bhagyawant** (2014). Effect of radiation processing on nutritional quality of some legume seeds. **International Journal of**

**Biological & Pharmaceutical Research**, 5(11):876-881. (Peer reviewed national journal)

23. Renu Khare, Mukesh Agrawal, Sameer S. Bhagyawant, Jaggi Lal (2014). Production, Purification and Characterization of aflatoxins by *Aspergillus flavus* isolated from groundnut. **Advances in BioResearch**, 5(4):124-132. doi:10.15515/abr.0976-4585.5.4.124132
24. Sameer S. Bhagyawant (2013). Antinutritional factors in pulses and their diversity. **Innovare Journal of Food Science**, 1(1):27-29.
25. Sameer S. Bhagyawant (2013). Applications of RAPD and ISSR markers in plant genome analysis. **Innovare Journal of Agricultural Science**, 1(2):17-19.
26. Anju Meshram, Sameer S. Bhagyawant, Sanskriti Gautam and Nidhi Shrivastava (2013). Potential role of *Tinospora cordifolia* in pharmaceuticals. **World Journal of Pharmacy and Pharmaceutical Science**, 2(6):4615-4625. (Peer reviewed international journal)
27. Singh P.K., Kumar A., Srivastava N., Agarwal R. M., and Bhagyawant S. S. (2012). Association of Protein Profiling and Agronomic traits in Chickpea as Revealed Using SDS-PAGE. **Journal of Cell and Tissue Research**, 12(3):3279-3284. (NAAS IF- 4.7)
28. Bhagyawant S. S., Behra K. K., Mishra, S., Sharma, A. and Srivastava N. (2012) Influence of light stress on somatic embryos inducing *in-vitro* antimicrobial activity in *Carthamus tinctorius* L. (variety-Mangira). **Journal of Pharmacy Research**, 5(5):2505-2509.
29. Nidhi Srivastava, Shalini Shwarupa, Sameer Suresh Bhagyawant (2011). Comparative Study on the Anti-Termite, Antimicrobial and Antioxidant Activity of Leaf and Root Extracts of Pothos Aurea (*Epipremnum aureum* L.). **Journal of Pharmaceutical Research & Clinical Practice**, 1(2):1-11. (Sci cited)
30. Kumar Kapil, Dubey Manish, Agnihotri Anjana, Bhadauria Seema, Bhagyawant Sameer S., Shrivastava Archana (2011). Antibacterial and phytochemical analysis of *Withania somnifera* aqueous and alcoholic extracts. **Journal of Pharmacy Research**, 4(10):3421-3423. (Sci cited)
31. Srivastava N, Bhagyawant S.S. and Sharma V. (2010). Phytochemical Investigation and Antinutritional Activity of the endocarp of unripe fruit of *Carica papaya*. **Journal of Pharmacy Research**, 3(12), 3132-3134. (Sci cited)
32. Bhagyawant S.S. and Srivastava N. (2008). Genetic fingerprinting of chickpea (*Cicer arietinum* L.) germplasm using ISSR markers and relationships. **African Journal of Biotechnology**, 7:4428-4431. doi:10.5897/AJB08.973 (IF- 0.55)

33. **Sameer S. Bhagyawant**, Nidhi Srivastava and K. K. Koul (2008). Diversity in chickpea and its wild relatives based on seed protein profiles. **Crop Research**, 37 (1,2 &3) 168-173. (NAAS IF-2.87)
34. **Bhagyawant S.S.** and Srivastava Nidhi (2008). Assessment of Antinutritional factors and protein content in the seeds of chickpea cultivars and their Divergence. **Journal of Cell and Tissue Research**, 8(1):1333-1338. (Peer reviewed national journal (NAAS IF-4.7)
35. Kapil Bhatt, Megha Mittal, R. K. Kaul, **Sameer S. Bhagyawant** and S. J. S. Flora (2008). Beneficial Role of Zinc and Iron Co-administration during Gallium Arsenide Exposure in Rats. **Current Trends in Biotechnology and Pharmacy**, 2(1):228-236. (Peer reviewed national journal)
36. Uma V. K., Gaikwad S.M., **Bhagyawant S.S.**, Deshpande U.D., Khan M.I. and Suresh C. G. (2005). Crystallization and preliminary X-rays characterization of a lectin from *Cicer arietinum* L. . **Acta Crystallographica**, F-61: 141-143. doi:10.1107/S1744309104032166 (IF 0.66)
37. **Bhagyawant S. S** and Shrivastava N (2005). Screening of Chickpea Cultivars for Lectin Composition. **Bioinfolet**, 2(2):91-94. (NAAS IF 4.2)
38. Deshpande U.D., **Bhagyawant S. S.** and Naik V. B. (1998). Random Amplified Polymorphic DNA Markers and its Potential Applications to Plant Genome Mapping and Breeding. **New Vision**, 1(1;1):73-79.