DR. NIDHI SRIVASTAVA

Specialization in Plant biotechnology (Natural Products, their mechanism and wide application in medicine/food etc. Stress Biology and Environmental biotechnology)

At Present

Associate Professor
Biotechnology Dept.
National Institute of Pharmaceutical Education and Research, Raebareli
Bijnor-Sisendi Road,
Near CRPF Base Camp,
Sarojini Nagar,
Lucknow, Uttar Pradesh
226301

Mobile
9389695769

E-mail
nidhi1.srivastava@niperraebareli.edu.in

Date of Birth
14th March 1978

Sex
Female

Marital Status
Married

Nationality
Indian

Linguistic Knowledge
English, Hindi

Strengths
Ability, Interest and willingness to learn
Self-analyzing prodigy
Adaptability to change and Time management

Previous Experience

- Associate Professor in the Department of Bioscience and Biotechnology, Banasthali Vidyapith, Rajasthan since 2012- Feb 2021.
- Sr. Lecturer in the Department of Bioscience and Biotechnology, Banasthali Vidyapith, Rajasthan, India (July 2008-2012)
- Associate Professor in 2007 (Asmara University, Eritrea)
- Lecturer against Professor Post in SOS- Biotechnology at Jiwaji University, Gwalior (M.P.) (Jan 2004-July 2008)
- Visiting Lecturer at Sofia College, Jiwaji University, Gwalior (M.P.)2002-2003
- Lecturer in Birla Life Science, Birla Institute, Gwalior (M.P.)2002

Education

- Doctor of Philosophy in Biotechnology from Jiwaji University, Gwalior (M.P.) awarded in September 2003.
- M.Sc. (Master of Science-Biotechnology) from Jiwaji University, Gwalior (M.P.) (1997-1999) secured First Division.
- B.Sc. (Bachelor of science-Biology), from Kanpur University. (1994-1997) secured First Division.
- Intermediate (U.P. Board) Allahabad in 1994 secured First Division
- High School (U.P. Board) Allahabad in 1992 secured First Division.
- Diploma in Computer from CMC, Govt of India, Gwalior in 2001 secured First Division

Academic awards and fellowships: -

- Qualified Joint CSIR New Delhi Senior Research Fellow in 2002-2003.
- Gold medal for the best paper published in Potato journal in 2016.
- Prakriti Prerak Gaurav Samman Award for the outstanding contribution and recognition in the field of Biosciences at International Conference at University Putra, Malaysia, Kuala Lumpur.

Membership

- ✓ Life member of Indian Science Congress Association, Kolkata.
- ✓ Life member of Biotechnology Society of India, New Delhi.
- ✓ Life Member of Indian Society of Genetics, Biotechnology and Research Development, New Delhi.
- ✓ Life Member of Indian Society of Genetics and Plant Breeding, IARI PUSA, New Delhi.

Reviewer

- ✓ Protoplasma Journal-Springer (ISSN 1615-6102), International Peer Reviewed Journal, Springer Vienna.
- ✓ Indian Journal of Biotechnology (ISSN 0972-5849), National Peer Reviewed Journal, UGC Approved, National Institute of Science Communication-NISCAIR, New-Delhi, India.

Patent

1. Patent Number:-NRDC/IPR/201711044225A (published in 14/06/2019)

Extracurricular Activities:

- Chief warden (Boys and Girls hostel) NIPER-R, Lucknow
- Member of Internal cell of Sexual harassment, NIPER-R, Lucknow
- Member of Board of Committee (BOS) for all the activities related to students/ courses improvement programme.
- Curricula development vis a vis semester and CBCS pattern syllabus, Member of Research Policy, Ethics and Environment Policy.
- Member of examination committee.
- Ph.D. thesis evaluation.
- Conduction of M.Sc. /Ph.D. entrance examination and

2. Patent No:- 202011011816 CBR Number:-9787 dated 19/03/2020
3. Patent No:-202011003685 with CBR number:-3254 dated 28/01/2020

Sequence submitted to NCBI

Accession No. of 66 sequences are from AB986127 to AB986191. http://blast.ncbi.nlm.nih.gov/Blast.cgi?PROGRAM=blastn&PAGE_TYPE=BlastSearch&LINK_LOC=blasthome

Projects

Title: **Proteomics approach for improvement of quality traits in chickpea cultivars**
Funding Agency: MPCST, Bhopal, M.P.

Title: ***In-vitro*** **enhancement of secondary metabolites in callus culture of papaya for its anti-hyperglycemic, anti-oxidative and antimicrobial activity**
Funding Agency: UGC, New Delhi
Organization: Department of Bioscience and Biotechnology,
Banasthali Vidyapith, Rajasthan, India

RESEARCH GUIDANCE:

Ph.D. (Awarded): 12, (Submitted= 02 and Ongoing =07)
M.Phil. (Awarded): 02
M. Sc. Dissertations (awarded)=36
MS (pharma) Biotech = 09 are pursuing for one year project at NIPER-R

INVITED TALKS / CHAIRMANSHIPS IN CONFERENCES:

1. **Invited talk** on "Advances from Biotechnology to Nanotechnology: Scope and Applications" in the National seminar entitled "Emerging Trends in Science and Technology in 21st Century" in February 25-26, 2014 at MPGDC, Hardoi, U.P.
2. **Chaired the technical session** in"ASIAN PLANT SCIENCE CONFERENCE"in Bhairahawa, Nepal in November 1-2,2014.
3. **Resource person** in "15 days Hands on Training Programme on Molecular and Immunodiagnostic" in the School Of Studies In Biotechnology held at Jiwaji University Gwalior in February 25 to March 11, 2014.
4. **Resource person** in"Hands on training for techniques in DNA and protein analysis" in the School Of Studies In Biotechnology held at Jiwaji University Gwalior in March 18 to April 01, 2015.
5. **Invited talk** on "Scanning electron microscopic studies of green silver nanoparticles of sterol rich compounds isolated from leaves of wild Sunflower for their anti-acne activity" in CHEMCON, 2017 at Haldia Institute (HIT), Calcutta, West Bengal in December 27-30, 2017.
6. **Invited talk** on "SEM studies of green silver nanoparticles of sterol rich compounds isolated from leaves of Chenopodium album L. for their anti-acne activity" in the National seminar on Microbes and human welfare organized by School of Life Sciences, JNU, Jaipur in September 23-25, 2017.
7. **Invited talk** on "Statistical Optimization for the enhancement of oil quality in Safflower seeds (JSI-99) by pretreatment of solid state fermentation with papaya waste" in XLI All India Botanical Conference of the Indian Botanical Society, Organised by SOS Botany, Jiwaji University, Gwalior in October 25-27, 2018.

Invigilation duties

- External expert for the selection of research fellow in sponsored Project.
- Collaboration with government organization like IIT Kanpur, Punjab University, IARI PUSA, New Delhi, Jiwaji University Gwalior, CIMAP etc

8. **Invited talk** on "Extraction of saponin and synthesis of their nanoparticles from Safflower (*Carthamus tinctorius* L. var. SSF-708) seeds for its anti-acne activity" in 3rd International Conference Food and Agriculture, Organized by ISGBRD, Universiti Putra Malaysia, Kuala Lumpur, November 26-28, 2018.

Administrative / academic extra-curricular activities

- ✓ 03 years' experience as a co-warden of engineering girl's hostel, at Jiwaji University, Gwalior (M.P.)
- ✓ Women in-charge officer with University Youth Team, at Jiwaji University, Gwalior (M.P.)
- ✓ Worked as a Team Member of University in Admission process
- ✓ Refresher Course: - 28days FDP at Physics dept, Banasthali Vidyapith (23rd July-19th August 2017)

RESEARCH PAPERS PUBLISHED: 85(research papers) and 12 (review articles)

04 (research papers) and 03 (review articles) (submitted)

1. Amita Bhadkaria, Nidhi Srivastava and Sameer S. Bhagyawant, (2021). A prospective of underutilized legume moth bean (Vigna acotinofolia (jacq) marechal): phytochemical profiling, bioactive compounds and In-vitro pharmacological studies. Food Sciences, 42;101088 (impact factor: - 4.24)

2. Varikuti, S., Shelton, B., Kotha, S.R., Gurney, T., Gupta, G., Fuchs, J.R., Kinghorn, D., **Srivastava, N.,** Satoskar, A.R. and Parinandi, N.L., 2020. Pentalinonsterol exhibits the immunomodulatory action in macrophages through activation of Phospholipase A2. *The FASEB Journal*, *34*(S1), pp.1-1. (Impact Factor: - 5.19).

3. Varikuti, S., Jha, B.K., Holcomb, E.A., McDaniel, J.C., Karpurapu, M., **Srivastava, N**., McGwire, B.S., Satoskar, A.R. and Parinandi, N.L., 2020. The role of vascular endothelium and exosomes in human protozoan parasitic diseases. *Vessel plus*, *4*.

4. Amita Bhadkaria, Neha Gupta, Dakshita Tanaji Narvekar, Rajni Bhadkariya, Anamika Saral, **Nidhi Srivastava**, Kirtee Kumar Koul, Sameer Suresh Bhagyawanta (2020). ISSR-PCR approach as a means of studying genetic variation in moth bean (Vigna aconitifolia (Jacq.) Maréchal). Biocatalysis and Agricultural Biotechnology, 30 (2020):101827. https://doi.org/10.1016/j.bcab.2020.101827 (**Impact Factor: Pubmed cited Elsevier**)

5. Meshram, A., Bhagyawant, S.S. and **Srivastava, N.** 2021.Oxoproline induced acetylcholinesterase activity on subterranean termite Odontotermes obesus. International Journal of Bioscience and Biochemistry.(IF=5.4)

6. Singh, A., **Srivastava, N**., Yadav, A. and Ateeq, B., 2020. Targeting AGTR1/NF-κB/CXCR4 axis by miR-155 attenuates oncogenesis in Glioblastoma. *Neoplasia*, *22*(10), pp.497-510. Impact factor:-5.7

7. Amita Bhadkaria, Neha Gupta, Dakshita Tanaji Narvekar, Rajni Bhadkariya, Anamika Saral, **Nidhi Srivastava**, Kirtee Kumar Koul, Sameer Suresh Bhagyawanta (2020). ISSR-PCR approach as a means of studying genetic variation in moth bean (Vigna aconitifolia (Jacq.) Maréchal). Biocatalysis and Agricultural Biotechnology, 30 (2020):101827. https://doi.org/10.1016/j.bcab.2020.101827 (**Impact Factor:3.28) Pubmed cited Elsevier**

8. Sameer S. Bhagyawant, Amita Bhadkaria, Dakshita T. Narvekar, **Nidhi Srivastava** (2019). Multivariate biochemical characterization of rice bean (Vigna umbellata) seeds for nutritional enhancement. Biocatalysis and Agricultural Biotechnology, 20 (5):101193. https://doi.org/10.1016/j.bcab.2019.101193 (**Impact Factor:3.28) Pubmed cited Elsevier**

9. Gauri singhal, Sameer S. Bhagyawant, Priyanka Singh and **Nidhi Srivastava. (2019).** Temperature mediated extraction of oil from safflower seeds:modelling and optimization of extraction parameters by response surface methodology approach. Vegetos.32:540–546. **ISSN**: 2229-4473; (IF=0.8 and NAAS= 5.6)

10. Gauri singhal, Sameer S. Bhagyawant, Priyanka Singh and **Nidhi Srivastava.** (2019). Kinetics and

thermal deactivation process of oil extraction from Safflower seeds variety PBNS-12". Research journal of chemistry and Environment. (IF=0.25)

11. A.K. Gupta, N. Gupta, **N. Srivastava** and S.S. Bhagyawant (2019). Proteomic analysis of chickpea roots reveals differential expression of abscisic acid responsive proteins. Journal of Food Biochemistry.doi10.1111/jfbc.12838 Online **ISSN**: 1745-4514 (IF=2.8)
12. Sameer S. Bhagyawant, Dakshita T. Narvekar, Neha Gupta, Amita Bhadkaria, Ajay Gautam, **Nidhi Srivastava** (2019). Chickpea (Cicer arietinum L.) Lectin Exhibit Inhibition of ACE-I, α-amylase and α-glucosidase Activity. Protein and Peptide Letters, 26(7): 494-501. https://doi.org/10.2174/0929866526666190327130037 (**Impact Factor: 1.89**)
13. Sameer Suresh Bhagyawant, Dakshita Tanaji Narvekar, Neha Gupta, Amita Bhadkaria, Kirtee Kumar Koul, **Nidhi Srivastava** (2019). Variations in the antioxidant and free radical scavenging under induced heavy metal stress expressed as proline content in chickpea. Physiology & Molecular Biology of Plants, 25, 683–696. https://doi.org/10.1007/s12298-019-00667-3 (**Impact Factor: 2.41**
14. Ajay Kumar Gautam, Neha Gupta, **Nidhi Srivastava**, Sameer Suresh Bhagyawant (2019). Proteomic analysis of chickpea roots reveal differential expression of abscisic acid responsive proteins. Journal of Food Biochemistry, e12838. https://doi.org/10.1111/jfbc.12838 (**Impact Factor: 2.8)**
15. Verma, V., Chaudhary, M. and **Srivastava, N**., 2019. Antioxidative properties of isolated saponins of Verbesina encelioides (Cav.) Benth.& Hook. fil ex Gray and SEM studies of synthesized green nanoparticles for acne management. *Plant Science Today*, *6*(sp1), pp.575-582. (**Impact Factor: 0.8)**
16. Chaudhary, M., Verma, V. and **Srivastava, N**., 2019. In vitro antiacne and antidandruff activity of extracted stigmasterol from seed waste of safflower (Carthamustinctorius L.). *Plant Science Today*, *6*(sp1), pp.568-574. . (**Impact Factor: 0.8)**
17. Singh, P., **Srivastava, N**., Joshi, N. and Shastri, I., 2019. Impact of different musical nodes and vibrations on plant development. *Plant Science Today*, *6*(sp1), pp.639-644. . (**Impact Factor: 0.8)**
18. Anju Meshram , Gauri Singhal , Sameer S. Bhagyawant , **Nidhi Srivastava. (2018).** Characterization of bioactives in chloroform extract of Epipremnum aureum leaves using spectroscopy for its antitermite effect. International journal of basic and applied research.(CIF-5.86)
19. Anju Meshram, Chaitali Y. Mathew , **Nidhi Srivastava** , Bhawna Pandey. (2018). Phytoremediation of Flyash Contaminated Water with Weeds. International journal of basic and applied research. (IF=0.39)
20. S. S. Bhagyawant, A. Bhadkaria, N. Gupta, **N. Srivastava** (2018) Impact of phytic acid on nutrient bioaccessibility and antioxidant properties of chickpea genotypes. Journal of Food Biochemistry, doi:10.1111/jfbc.12678. **Impact Factor: 2.8)**
21. S. S. Bhagyawant, A. K. Gautam D. T. Narvekar, N. Gupta, A. Bhadkaria, **N. Srivastava**, H. D. Upadhyaya (2018) Biochemical diversity evaluation in chickpea accessions employing mini-core collection. Physiology and Molecular Biology of Plants, doi:10.1007/s12298-018-0579-3. **(IF=1.53)**
22. A. K. Gautam, **N. Srivastava**, B. Sharma and S. S. Bhagyawant (2018) Current scenario of legume lectins and their practical applications. Journal of Crop Science and Biotechnology, 21 (3), 217-227. **(IF=0.35)**
23. A. K. Gautam, **N. Srivastava**, D. P. Nagar and S. S. Bhagyawant (2018). Biochemical and functional properties of a lectin purified from the seeds of Cicer arietinum L. 3 Biotech, 8, 272.

doi:10.1007/s13205-018-1272-5. **(IF=1.786)**

24. N. Gupta, **N. Srivastava**, S. S. Bhagyawant. 2018. Vicilin- A major storage protein of mungbean exhibits Antioxidative potential, antiproliferative effects and ACE inhibitory activity. Plos One. 13:1-17. **(IF=3.24)**
25. A.Meshram, S. S. Bhagyawant, **N. Srivastava.** 2018.Characterization of Pyrrolidine Alkaloids of Epipremnum aureum for Their Antitermite Activity Against Subterranean Termites with SEM Studies. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. doi.org/10.1007/s40011-017-0893-5:1-10 **(IF=1.0)**
26. G. Singhal, S. S. Bhagyawant, P. Singh, **N. Srivastava**(2018). Effect of decortication and heat pretreatment on oil content extracted from safflower seeds variety PBNS-12. Vegetos, 31, 45-48. **(IF=0.8)**
27. S. Gautam, S. S. Bhagyawant, **N. Srivastava**(2018). Antioxidant responses and isoenzyme activity of hydroponically grown safflower seedlings under copper stress. Indian journal of Plant Physiology, 23 (2), 342-351. **(IF=0.81)**
28. A. Shukla, **N. Srivastava**, P. Suneja, S. K. Yadav, Z. Hussain, J.C. Rana, S. Yadav (2018). Genetic diversity analysis in Buckwheat germplasm for nutritional traits. Indian Journal of Experimental Biology, 56, 827-837**. (IF=0.934)**
29. A. K. Gautam, **N. Srivastava**, B. Sharma, S. S. Bhagyawant (2018). Current scenario of legume lectins and their practical application. Journal of Crop Science and Biotechnology, 21 (3), 217-227. **(IF=1.02)**
30. **N. Srivastava**, V. Verma, G. Singhal. (2018). Scanning electron microscopic studies of green silver nanoparticles of sterol rich compounds isolated from leaves of wild sunflower (Verbesina encelioides benth ex. gray) for their anti-acne activity. International Journal of Research in Science and Engineering, 160-165. **(IF =4.2)**
31. A. Chauhan, **N. Srivastava** and P. Bubber.2017. Effect of Thiamine nutritional deficiency on the energy metabolism and neurotransmission in mice brain. The Indian Journal of Nutrition and Dietetics. 54:414-426. (IF=0.05)
32. A. Chauhan, **N. Srivastava** and P. Bubber. Agust 2017. Thiamine Deficiency Induced Dietary Disparity Promotes Oxidative Stress and Neurodegeneration. Ind J Clin Biochem. DOI 10.1007/s12291-017-0690-1. **(IF=1.39)**
33. A. Singh, **N. Srivastava**, S. Amit, S.N. Prasad, M.P. Mishra and B. Ateeq 2017. Association of AGTR1 (A1166C) and ACE (I/D) polymorphisms with breast cancer risk in north Indian population. Translational Oncology . 11, 233-242. **(IF=4.1)**
34. Sharma A, Sikarwar M, Gupta P and **N. Srivastava** 2017**.** A Simple Method to Study Host-Pathogen Interaction in *Sesamum Indicum.* Vegetos 30:4. **(IF=0.8)**
35. A. Shukla., **N. Srivastava**., P. Suneja., S. K. Yadav., Z. Hussain., J.C. Rana., S. Yadav. June 2017. Untapped amaranth (Amaranthus spp.) genetic diversity with potential for nutritional enhancement. Genet Resour Crop Evol DOI 10.1007/s10722-017-0526-0 **(IF=1.294)**
36. N. Gupta., **N. Srivastava**., S. S. Bhagyawant. May 2017. Multivariate Analysis Based on Nutritional Value, Antinutritional Profile and Antioxidant Capacity of Forty Chickpea Genotypes Grown in India. Journal of Nutrition and food Sciences, 7:3 DOI: 10.4172/2155-9600.1000600 **(IF=2.6)**
37. A. K. Gautam., **N. Srivastava**., A. K. S. Chauhan., S. S. Bhagyawant. May 2017. Analysis of wild

chickpea seed proteins for lectin composition. International Journal of Current Research And Academic Review doi: https://doi.org/10.20546/ijcrar.2017.505.002 (SJIF=7.9).

38. Gautam AK, Gupta N, Bhadkariya R, **N. Srivastava** and Bhagyawant SS. (2016). Genetic Diversity Analysis in Chickpea Employing ISSR Markers. Agrotechnology (Omics).5(3) DOI: 0.4172/2168-9881.1000152 impact factor=0.69
39. Gupta, NK., **Srivastva N**., Puri, S., Garg, S., Bubber, P. and Mohmad, O. (2016). Protective and curative effect of *Azadirachta Indica* leaf extract in streptozotocin induced diabetic rat liver. International Journal of Pharmacognosy and Phytochemical Research. 8(7): 1142-1148. Scopus Indexed. **(IF=0.121)**
40. Suman Sanju, Aditi Thakur, Sundaresha Siddappa, Sanjeev Sharma,Pradeep Kumar Shukla, **Nidhi Srivastava**, Debasis Pattanayak and BP Singh.2016. In-vitro detached leaf assay of host-mediated rnai lines carrying phytophthora infestans avr3a effector gene for late blight resistance. Potato journal 43(1) 30-37 **(IF=0.9)**
41. P Yadav, KK Koul, **N Srivastava**, MJ Mendki and SS Bhagyawant. 2016. ITS-PCR sequencing approach deciphers molecular phylogeny in chickpea. *Plant Biosystems*, http:/dx.doi.org/10.1080/11263504.2016.1179694 **(IF=1.78)**
42. 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, Volume 2016, Article ID 3136043, 6 pages http://dx.doi.org/10.1155/2016/3136043 **.(IF=3.4)**
43. Singh, P.K., **Srivastava, N.,** Chaturvedi, K., Sharma, B., and Bhagyawant, S.S. 2016. Characterization of seed storage proteins from chickpea using 2D electrophoresis coupled with mass spectrometry **.** Biochemistry Research International, 2016, 6 pages. (**IF=3.44)**
44. Gupta, N., **Srivastava, N.**, Babbar, P., and Puri,S. 2016. Antioxidant Potential of *Azadirachta indica* Ameliorates Cardioprotection following Diabetic Mellitus Induced Microangiopathy. Pharmacognosy magazine,12(46); 371-378 (**IF=6**)
45. Gautam, S., K. Anjani., and **Srivastava, N.** 2016. *In-vitro* evaluation of excess copper affecting seedlings and their biochemical characteristics in *Carthamus tinctorius* L. (variety PBNS-12). Physiol Mol Biol Plants, DOI 10.1007/s12298-016-0335(2):1-6. **(IF=2.836)**
46. S. Gautam, S. S. Bhagyawant and **N. Srivastava** 2016. Growth and nonenzymatic antioxidative studies in invitro grown safflower (cv A1) seedlings under copper stress. International Journal of Life Sciences and Review2(3): 52-60 doi: 10.13040/IJPSR.0975-8232 **(CIF=4.996)**
47. **Nidhi Srivastava** and Sanskriti Gautam.2016. *In-vitro* biochemical study of safflower (carthamus tinctorius L.(var.SSF-708) under hyperaccumulation of copper. Invertis journal of science and technology. 9(2):101-108. (**CIF=5.9)**
48. 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. (CIF=5.366)
49. Anju Meshram and **Nidhi Srivastava** (2016) " Phytochemical screening and *in vitro* antioxidant potential of methanolic extract of *Epipremnum aureum* (Linden and Andre) G. S. Bunting. International Journal of Pharmaceutical Research & Allied Sciences, 2; 5(2):1-6 **(IF=2.986)**

50. 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(6):158-162. **(IF=0.6)**
51. Sameer. S. Bhagyawant, Neha Gupta, Ajay Gautam, S.K. Chaturvedi, **Nidhi Srivastava**.2015. "Molecular Diversity Assessment in Chickpea through RAPD and ISSR Markers. World Journal of Agricultural Research, 3(6):192-197 (ISSN=2333-0678) (IF=0.16)
52. Bhagyawant, S. S., Gupta, N., and **Srivastava,N.** 2015. Effects of gamma irradiation on chickpea seeds vis-a-vis total seed storage proteins, antioxidant activity and protein profiling. Cell. Mol. Biol, 61 (5): 79-83 (doi : 10.14715/cmb/2015.61.5.14) **(IF=4.27)**
53. Bhagyawant, S. S., Gautam, A., Chaturvedi, S.K. and **Srivastava, N.** 2015. Hemagglutination activity of Chickpea extracts for Lectin" International Journal of Pharmaceutical and Phytopharmacological Research, 5(3): 1-7 (**IF=2.52)**
54. Singh, P.K., **Srivastava, N.,** Sharma, B., and Bhagyawant, S.S 2015. Effect of domestic Processes on chickpea seeds for antinutritional contents and their divergences. American Journal of Food Sciences and Technology,3 (4):111-117 (**IF=0.6)**
55. Yadav, P., Koul, K. K., **Srivastava, N.,** Mendaki, M. J., and. Bhagyawant, S. S 2015. DNA polymorphisms in chickpea accessions as revealed by PCR-based markers.*Cell. Mol. Biol*, 61 (5): 84-90. (doi : 10.14715/cmb/2015.61.5.15) (**IF=4..27)**
56. Sanju, S., Siddappa, S., Thakur, A., Shukla, P.K., **Srivastava, N.,** Pattanayak, D., Sharma,S., and Singh, B.P. 2015. Host-mediated gene silencing of a single effector gene from the potato pathogen Phytophthora infestans imparts partial resistance to late blight disease. Funct Integr Genomics, 15: 697-706. DOI 10.1007/s10142-015-0446-z (**IF=3.49)**
57. Thakur, A., Sanju, S., Siddappa, S., **Srivastava, N.,** Shukla, P.K., Pattanayak, D., Sharma,S., and Singh, B.P. 2015. Artifical microRNA mediated gene silencing of P. *infestans* single effector Avr3a gene imparts moderate type of late blight resistance in potato" Plant Pathology Journal, 14 (1): 1-12 .DOI:-10.3923/ppj.2015**. (IF=2.59)**
58. Ahuja, A., Bhattacharjee,U., Chakraborty, A.K.,Karam, A., Ghatak, S., KekunguPuro, S.D.,,Ingudam, S.,**Srivastava, N.,** and Sen, A. 2015. Complete Genome Sequence of Classical Swine Fever Virus Subgenogroup 2.1 from Assam, India. Genome Announc 3(1): 01437-14. doi:10.1128/genomeA.01437-14. **(IF=1.3**)
59. Shivkumar, M., Verma, K., Talukdar, A., **Srivastava,N.,** Lal, S.K., Sapra, R.L., and Singh, K.P. 2015. Genetic variability and effect of heat treatment on trypsin inhibitor content in soy-bean [Glycine max (L.) Merrill]. Legume Research,38(1):60-65 (**IF=0.6**)
60. Verma, K., Talukdar, A., Shivkumar, M., Kumar, B., Lal, S.K., **Srivastava,N.,** Sapra, R.L., and Girmilla, G. 2015. Biochemical screening for trypsin inhibitor factors and morphomolecular characterization of soybean (*Glycine max* L. Merr.). *Indian J. Genet*., 75(4): 490-496 (2015) DOI:

10.5958/0975-6906.2015.00078.4(**IF=0.59**)

61. P. Yadav, K. K. Koul, **N. Shrivastava**, M. J. Mendakiand S. S. Bhagyawant (2015) " DNA polymorphisms in chickpea accessions as revealed by PCR-based markers. *Cell. Mol. Biol.* 2015; 61 (5): 84-90. (doi : 10.14715/cmb/2015.61.5.15**).(IF=4.46)**
62. **Nidhi Srivastava** and Anju Meshram(2015) "In-vitro antitermite activity of alkaloids from Epipremnum aureum (Linden and Andre) Bunting (Araceae) against Indian white termite Odontotermes obesus. Asian Journal of Pharmaceutical Technology and Innovation, 03(10). **(IF=0.5)**
63. Anju Meshram, Ajai kumar and **Nidhi Srivastava (2015)** "GC-MS analysis of alkaloids isolated from Epipremnum aureum (Linden and Andre) Bunting. Int. J. of Pharma Science and Research, 6 (2):337-342.
64. Anju Meshram, Sanskriti Gautam, Sameer Suresh Bhagyawant and **Nidhi Srivastava (**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): 1-4
65. 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.6;676-682. (GIF=0.99)
66. Singh P. K., Gautam A.K., Panwar H., Singh D.K. **Srivastava N**. Bhagyawant S.S and Upadhayay 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
67. Ahuja Anuj, **Nidhi Srivastava** et al. (2014) "Classical Swine Fever Virus Infection in India: Seroprevalence study from North-eastern States of India." Indian Journal of Hill Farming, 27(1) 267-277. (NAAS IF=2.9)
68. Neha Tiwari, **Nidhi Srivastava,**Vinay Sharma (2014) "Comparative analysis of total phenolic content and antioxidant activity of in vivo and in vitro grown plant parts of Carica papaya L." Indian J. of Plant Physiol,19: 356–362 DOI 10.1007/s40502-014-0116-5. (IF= 0.81)
69. **Nidhi Srivastava** and Sameer S. Bhagyawant (2014) "*In viitro* accumulation of lead nitrate in safflower seedling and its impact on plant protein". Plant Knowledge Journal3(2):39-46
70. Archana Bhat, Syed Riyaz-Ul-Hassan .**Nidhi Srivastava** and Sarojini Johri (2014) Molecular cloning of rhodanese gene from soil metagenome of cold desert of North-West Himalayas: sequence and structural features of the rhodanese enzyme. 3 Biotech. DOI 10.1007/s13205-014-0249-2. **(IF=3.20)**
71. Deepti Nagaich , Kapil Kumar Tiwari**, Nidhi Srivastva** • Amaresh Chandra (2013)." Assessment of genetic diversity and morpho-physiological traits related to drought tolerance in Stylosanthes scabra. Acta Physiol Plant, 35(11):3127–3136. DOI 10.1007/s11738-013-1345-3**(IF=2.711).**
72. Archana Bhatt, Syed-Riaaz-Ul Hassan,Nasier Ahmed, **Nidhi Srivastava** and Sarojini Johri (2013) "Isolation of cold-active acidic endocellulase from Ladakh soil by functional metagenomics" Extremophiles 17(2):229-39.(**IF=2.6)**

73. **Srivastava N.**, Tiwari N., Sharma V. (2012) *"*Effect of various concentrations of *Azadirachta indica*leaf extract on callus induction and its enhancement for the plantlet regeneration in *Carica papaya L(Var.*

Pusa Dwarf). Journal of Cell and Tissue Research Vol. 12(3) 3417-3422. .(IF=4.38 **)**

74. Singh P.K., Kumar A**.,** **Srivastava N**. Agarwal. 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 Vol. 12(3) 3279-3284 (IF=4.38 NAAS)

75. Preeti Singh Teotia[a], **Nidhi Srivastava[a],** Veena Garg [a,]*, G.S. Shekhawat [a], Nidhi Sharma [a] and Sangeet Mohan Chadha (2012) ¨Stevioside: A natural sweetener having potential of controlling glucose levels in diabetic patients. International Journal of Current Research 4(4):83-90. **(IF=7.9)**
76. Bhagyawant S.S, Behera K. K., Mishra S,Sharma Anubhuti [1] 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 . Vol. 5 Issue 5, p2505-2509.
77. **Nidhi Srivastava,** Sreelekha Mishra, Anubhuti Sharma and Sameer S. Bhagyawant (2012) "Somatic embryogenesis and plantlet regeneration from the root explants of Safflower: The influence of explants age, mannitol, and various carbohydrate sources". International Journal of Biological Sciences and Engineering. Vol. 02, No. 04, December 2011, pp. 266-276. **(IF=0.6)**
78. Anubhuti Sharma, Arushi Girdhar and **Nidhi Srivastava** (2011).**"**"Development of strategy for competent cell preparation and high efficiency plasmid transformation using different methods". The South Pacific Journal of Natural and Applied Sciences, 29, 17-20.
79. **Nidhi Srivastava** ,Shalini Shwarupa, Sameer Suresh Bhagyawant (2011)"Comparative study on the anti-termite, antimicrobial and antioxidant activities of leaf and root extracts of Pothos aurea (*Epipremnum auereum* L.). Journal of Pharmaceutical Research & Clinical Practice 1(2) pp 1-11..ISSN:-2231-4237. (IF=0.76)
80. **Srivasatava Nidhi,** Bhagyawant Sameer and Sharma Vinay (2010) "Phytochemical Investigation and Antimicrobial Activity of the endocarp of unripe fruit of *Carica papaya".* Journal of Pharmacy Research 3(12),3132-3134 ISSN:-0974-6943 Impact Factor:-2.36.
81. Bhagyawant S. and **Srivastava. N.** (2009**)** "Studies on genetic divergence in chickpea germplasm and its wild relatives based on seed protein profile" Crop Research 37 (1,2 & 3) :168-173.ISSN: 0970-4884.(**IF=1.39**)
82. Bhagyawant S.S.and **Srivastava N.** (2008) "Genetic fingerprinting of chickpea (cicer arietinum L.) germplasm using ISSR markers and their relationship". African Journal of Biotechnology 7(24)4428-4431. ISSN:1684-5315Impact Factor:0.658
83. Bhagyawant S.S. and **Srivastava.N** (2008) "Assessment of antinutritional factors and protein content in the seeds of chickpea cultivars and their divergence". J. Of Cell Tissue and Research, 8(1)1333-1338. ISSN:0973-0028 Impact factor:-4.38 (NAAS).
84. **Srivastava N** and Bhagyawant S. S (2005) "Screening of promising chickpea *(Cicer arietinum L.)* cultivar for seed protein composition.". Bioinfolet: 2(2):91-94. ISSN:0976-4755 **(IF=2.94)**
85. Megha Chaturvedi**, Nidhi Srivastava**, and Rekha Bhadauria(2004) '*In-Vitro* flowering in wild species of safflower *Carthamus oxycantha*." Environmental Biology and Conservation Vol.9, 87-88.

REVIEW PAPERS PUBLISHED:

1. Gauri Singhal, Priyanka Singh, Sameer Suresh Bhagyawant, **Nidhi Srivastava** (2018). Anti-nutritional factors in safflower (Carthamus tinctorius l.) seeds and their pharmaceutical applications. International Journal of Recent Scientific Research, 9(9), 28859-28864. (**IF= 7.383**)
2. Anju Meshram., Sameer S. Bhagyawant., **Nidhi Srivastava** (Feb 2017). Environment and biodiversity conservation studies with Remote Sensing and GIS. MOJ Proteomics and Bioinformatics. 5(2): 00151
3. Anju Meshram, **Nidhi Srivastava** (2015) "New challenges of nanoscience on society and environment". Journal of Proteins and Proteomics. 6(1) 33. **(IF=1.0 and NAAS=3.75)**
4. Anju Meshram, **Nidhi Srivastava** (2015) "Diverse Potential and pharmacological studies of Arginine" Journal of Proteins and Proteomics 6(3) 237-243. **(IF=1.0 and NAAS=3.75)**
5. Anju Meshram and **Nidhi Srivastava** (2014). Molecular and physiological role of Epipremnum aureum. International Journal of Green Pharmacy., Volume 8, 73-76. **(IF=0.5)**
6. Anju Meshram and **Nidhi Srivastava**.(2013) "An insight into the molecular structure and function of polygalacturonase inhibiting protein (PGIP)"Journal of Protein and Proteomics 4(3) 175-181**.(IF=1).**
7. Anju Meshram, Sameer Suresh Bhagyawant, Sanskriti Gautam and **Nidhi Srivastava**. (2013) "Potential role of Tinospora cordifolia in Pharmaceuticals" WJJPS,2(6) 4615-4625. **(IF-7.63)**
8. Anupam Singh, Khushbu Verma, Ankita Singh, **Nidhi Srivastava**, Promila Gupta (2011). "Agricultural Genomics: Sustainable Development and Prospects a Short Review. Journal Advance Biotech 1(11) 12-16 pISSN:0973-0109. IC value:4.01.
9. Sanskriti Gautam, Anju Meshram, Sameer S. Bhagyawant and **Nidhi Srivastava**. Ficus religiosa-potential role in pharmaceuticals. International Journal of Pharmaceutical Science and Research. 2014, Volume 5, Issue 5, 1616-1623. (**Impact Factor 2.44**).
10. Sanskriti Gautam, Anju Meshram and **Nidhi Srivastava**. A brief study on phytochemical compounds present in Coccinia cordifolia for their medicinal, pharmacological and industrial applications. World Journal of Pharmacy and Pharmaceutical Sciences. 2014, Volume 3, Issue 2, 1995-2016. (**Impact Factor=7.63)).**
11. Sanskriti Gautam, Sameer S. Bhagyawant and **Nidhi Srivastava**. Detailed study on therapeutic properties, uses and pharmacological applications of Safflower (Carthamus tinctorius L.). International Journal of Ayurveda and Pharma Research. 2014; 2(3): 5-16. **(IF= 2.5781).**
12. **Nidhi Srivastava** and Anju Meshram (2015) "Epipremnum aureum (Jade Pothos): A Multipurpose plant with its medical and pharmacological properties" Journal of Critical Reviews.2(2) (**IF1.09)**

BOOK PUBLISHED:

1. **Recent Advances in Plant Molecular Biology** by Sameer Suresh Bhagaywant and **Nidhi Srivastava**.Himalaya Publishing House. ISBN: 978-93-5367-433-5 (2019).
2. **Alkaloid Isolation and applications** by **Nidhi Srivastava,** Sameer Suresh Bhagaywant and Anju Meshram. Educreation publisher. ISBN: No-978-93-5373-002-4 (2019).
3. **"Current topics in plant molecular biology" (plant biotechnology) National Book** By Sameer Suresh Bhagaywant and **Nidhi Srivastava**. Horizon book publisher. ISBN:-978-93-84044-81-7 (2016).
4. **Dalbergia: An economic important genus** by **Nidhi Srivastava** and Anju Meshram. Lambert

Academic Publishing**.** ISBN: 978-3-659-95756-7 (2016).

5. **Salient Feature of *Chenopodium album* L. and its Role in Cosmetics** by **Nidhi Srivastava** ,Gauri Singhal, Vartika Verma and Monika Choudhary. Lambert Academic Publishing.ISBN: 978-613-9-91796-9 (2018).

BOOK CHAPTER PUBLISHED:

- **Plant-derived enzymes: A treasure for food biotechnology:** in book "Enzymes in Food Biotechnology", chapter-28. Edited by Kuddus, Mohammed. Elsevier. 978-0-12-813280-7 (2019)
- **Technology prospecting on microbial enzymes: Engineering and applications in food industry** in book"Enzymes in Food Technology: Improvements and Innovations Edited by Kuddus, Mohammed. Springer.pp 213-241 (2018)
- **Advances in Fermentation Technology: Principle and their Relevant Applications** in book Principles and Applications of Fermentation Technology Edited by Arindam Kuila and Vinay Sharma. Willey.(pp 55-63) ISBN:9781119460381
- **Fermentation Technology Prospecting on Bioreactors/Fermenters: Design and Types in book** Principles and Applications of Fermentation Technology Edited by Arindam Kuila and Vinay Sharma. Willey.(65-83) ISBN:9781119460381
- **Bioenergy Production: Biomass Sources and Applications** in book Sustainable Biofuel and Biomass: Advances and Impacts, Chapter-13. Edited by Arindam Kuila. AAP, CRC press. 9780429265099(June 2019)
- **Bioenergy: Sources, Research and Advances** in book Sustainable Biofuel and Biomass: Advances and Impacts, Chapter-17. Edited by Arindam Kuila. AAP, CRC press. 9780429265099 (June 2019)
- **Production of biofuel through metabolic engineering: Processing, types, and applications** in book Genetic and metabolic engineering for biofuel production from Lignocellulosic Biomass, Chapter 11. Edited by Arindam Kuila and Vinay Sharma. Elsevier (In Press) 9780128179536
- **Biofuel production from lignocellulosic biomass: Introduction and metabolic engineering for fermentation scale-up** in book Genetic and metabolic engineering for biofuel production from Lignocellulosic Biomass**.** Elsevier **Chapter -1(1-12)**) 9780128179536
- **Introduction of fermentation and enzyme science in book** Microbial Fermentation and Enzyme Technology**.** Chapter 4. CRC Press Taylor & Francis 978-0367183844
- **Microbial Enzymes in Food Industry: Types and Applications** in book Microbial Fermentation and Enzyme Technology**.** Chapter 4. CRC Press (In Press) Taylor & Francis 978-0367183844
- **Bioaccumulation of heavy metal in plants: Morphological and Physiological changes** in book Plant Stress biology" Progress and prospects of genetic engineering" CRC Press Taylor & Francis Edited by Arindam Kuila Apple academic press
- **Different Environmental Stress for enhanced biofuel production from plant biomass** Plant Stress biology" Progress and prospects of genetic engineering CRC Press Taylor & Francis
- **Bioenergy: ethics and prospectives:** in book "Modern biotechnology and its applications vol-2" chapter-15. Edited by Dr. K.K. Behra.Publisher:- New India publishing agency, New Delhi. ISBN

10: 9381450838 / ISBN 13: 9789381450833 in 2013

- **Transgenic and plant tissue culture:** in book "Newer Approaches to Biotechnology", Edited by Dr. K.K. Behra. Publisher: Narendra Publishing House. pages 121-133.
- **Metabolomics: its present scenario and future prospective**: in book Advances Frontier on Biotechnology Edited By Dr. K.K. Behera, Jaya Publishing House-Delhi. ISBN-978-93-82471-42-4(2014)

WORKSHOPS ATTENDED:

1. Workshop on "Research Methodology" organized by SOS Business and Management Jiwaji University, Gwalior on March 15-24, 2015.
2. Jubilee National workshop for promoting Science and technology among women organized by Department of Science and Technology, New Delhi at Banasthali Vidyapith, Banasthali (Rajasthan) on January 30, 2019.
3. Workshop on "Biological Database and Data Mining Approaches" held at the Centre for Bioinformatics in the department of Bioscience and Biotechnology at Banasthali Vidyapith on December 18-20, 2010.
4. National workshop on "In-Silico Genome and Proteome Analysis" organized by Centre for Bioinformatics Banasthali Vidyapith on March 8-10, 2014.
5. DBT sponsored National workshop on "Protein structure prediction and function analysis" organized by Centre for Bioinformatics Banasthali Vidyapith on March 2-4, 2017.

International and National Conferences Proceedings: - 12 (Full) and 32 abstracts

International and National Conferences attended/ Presentation: - 36/ 32

Research from Lab to field and Industry: - In Brief

1.First prize won in The **5th edition of IMAGINE:Inter-college B-plan competition** was organized by **E-Cell, Banasthali Vidyapith(Supported by the State Bank Of India)**

3. INNOVRITI - the business plan pitching competition event under E-Conclave 5.0: 2020 (Final round)

4. Ideas for New India Challenge 2020 _ Ministry of MSME, Govt. of India (Currently underprocess)

6. Global Bio India summit 2019 held in Delhi

2.Reached in FINAL ROUND in BRIC IDEA EXPOSOTION 2019 Jaipur

5. Represented our idea(SHRIBAN) in front of the NAAC team
Atal incubation, Banasthali Vidyapith