**CURRICULUM VITAE**

**Dr. Ajeet Singh**
(Ph.D., ICAR-NET, MHRD-GATE, UP-CET)



**Corresponding Address**
Department of Quality and Basic Sciences,
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**Date of Birth**- 01 July 1991

**Career Objective –**
To enhance my working capacities, professional skills, efficiencies and to serve my organization in best possible way with sheer determination and commitment.

## Academic Qualification -

- **Ph.D. (2018)** degree awarded in **Microbiology** from Department of Botany and Microbiology, Gurukula Kangri University, Haridwar, India from 2012 to 2018.
  The work was related to the isolation, characterization of bioactive compounds and essential oils from plant sources, and studied their antimicrobial role against respiratory bacterial and fungal pathogens.
- **M.Sc. (2012)** in **Microbiology** from Chaudhary Charan Singh University (Campus) Meerut, U.P. (India) in the year 2012 with first Division, 69% marks.
- **B.Sc. (2010)** with **Industrial Microbiology** and **Botany** from M.J.P. Rohilkhand University, Bareilly, U.P. (India) in the year 2010 with first Division, 71% marks.

## Teaching Experience
## (Total = 2.9 years)

- Teaching experience since August 2014 to April 2017 in the Department of Botany and Microbiology, Gurukula Kangri University, Haridwar-249404, Uttarakhand (India)

## Research Experience

## (Total Research experience = 4.5 Years; Excluding PhD.)

- Research experience as a UGC- Junior Research fellow and Senior Research Fellow (UGC BSR-JRF & SRF) since July 2012 to June 2018 in the "Laboratory of Medicinal plants and drug Discovery", Department of Botany and Microbiology Gurukula Kangri University, Haridwar-249404, Uttarakhand (India)
- Research experience as a Senior Research Fellow (ICAR-SRF) since 1st August-2018 to 30 July 2019 in the "Laboratory of Biosensor Technology", Dairy Microbiology Division, ICAR-National Dairy Research Institute, Karnal-132001, Haryana, India **(1 year)**

- Research experience as a Junior Research Fellow (DBT-JRF) since 1st August 2019 to 17th September, 2022 in the "Laboratory of Quality and Basic Sciences Division", ICAR-Indian Institute of Wheat and Barley Research, Karnal-132001, Haryana, India **(Approx. 3.5 years)**
- Research experience as a Junior Research Fellow (DBT-JRF) since 19st September 2022 to till date in the "Laboratory of Quality and Basic Sciences Division", ICAR-Indian Institute of Wheat and Barley Research, Karnal-132001, Haryana, India.

## Awards and Grants -

1. Qualified in State Eligibility Test (UP-SET) 2012
2. Qualified in GATE 2012 (Life Sciences)
3. Qualified in National Eligibility Test (NET) (conducted by ASRB, ICAR, Government of India) 2014. Recognized by UGC-CSIR, New Delhi
4. Junior Research Fellow (UGC-JRF) (2014-2016) under BSR (Basic Scientific Research) National Fellowship, UGC, New Delhi
5. Nominated as an Academic Councillor by Indira Gandhi National Open University (IGNOU, New Delhi), Karnal (Haryana) region for the year 2019-2020
6. Senior Research Fellow (UGC-SRF) (2016-2018) under BSR National Fellowship, UGC, New Delhi
7. Senior Research Fellow (SRF) (from 1 August 2018-30 July 2019) in ICAR-NDRI Outreach Project entitled "Monitoring of Drug residue and Environmental Pollutants in Milk" funded by ICAR, Govt. of India
8. DBT-JRF and SRF (Junior Research Fellow & Senior Research Fellow) at ICAR-Indian Institute of Wheat and Barley Research (ICAR-IIWBR) in a DBT funded Project entitled "High resolution QTL Mapping for Iron, Zinc, Grain protein, and Phytate content and their Introgression in High yielding Wheat Cultivars" funded by DBT, Govt. of India (From 1 August 2019 to 17 September 2022).
9. DBT-JRF (Junior Research Fellow) at ICAR-Indian Institute of Wheat and Barley Research (ICAR-IIWBR) in a DBT funded Project entitled "Germplasm Characterization and Trait Discovery in Wheat using Genomics Approaches and its Integration for Improving Climate Resilience, productivity and Nutritional quality" funded by DBT, Govt. of India (From 19 September 2022 to till date).

## Skills and Expertise

**Microbiology:** Antibacterial and antifungal activity; Working experience under Bio-safety Level II & III Laboratory; Isolation, identification and characterization of microbes from various sources.

**Pharmacology:** Extraction of natural bioactive compounds and essential oil from plants, isolation & purification of natural compounds by using Thin Layer Chromatography, Column Chromatography and Preparatory-Thin Layer Chromatography; Handing of UV-VIS spectrophotometer, Microwave digestion system (for heavy metals and micronutrients), AAS (Atomic Adsorption Spectroscopy), ICP-MS, and working knowledge of offline/online software used for interpretation of FT-IR, $^{1}$H-NMR and $^{13}$C-NMR.

**Molecular Biology:** DNA isolation from microbes, plants, animal sources, electrophoresis, PCR and PCR based applications.

**Biochemistry:** Qualitative and quantitative estimation of different bio-molecules from different samples. Estimation of bioavailability/dialyzability of cereals whole grains and crude/isolated drugs. Fortification and Biofortification of micronutrient/protein content, Fe and Zinc estimation in wheat samples, Amylose and amylopectin estimation in wheat flour.

**Food and Dairy Microbiology:** Detection of antibiotic and pesticide residues in milk. Charm and ROSA for the detection of antibiotic and aflatoxin in milk samples.
Performed milk sampling from different cattle yards and village farmers. Performed CMT (California Mastitis Test) and SCC (Somatic Cell Count) for milk samples. Antibiotic, pesticides, and heavy metals detection in milk/animal feeds/ fodder samples by using spore based (biosensor based) antibiotic/ pesticide detection kits developed in ICAR-NDRI, Karnal-132001, Haryana, India.

**Ethnographic Survey/activities (Field activities):** worked in ethnographic studies/ surveys work in Haryana (India) for mastitis and AMR (antimicrobial resistance) in dairy sectors. Ethnographic studies of uses of medicinal & aromatic plants of Uttarakhand (India).

## Professional Activities

## Reviewer/Editorial Board/Guest Editor -

### Member of Professional Bodies

Life Member of Indian Science Congress (ISCA)
Life Member of Association of Pharmaceutical Teachers of India (APTI)
TECH Research Group Member (Tech Counsellor Uttarakhand, India)

### Reviewer/Editor/Member of Advisory Board for Research Journals/Edited Books

**Editor** (International Journal of Basic and Applied Science Research)
**Assistant Editor** (International Journal of Botany Studies)
**Reviewer** (Archives of Agriculture and Environmental Science)
**Reviewer** (International Journal of Pharma and Bioscience)
**Editor/Reviewer** (Indian Research Journal of Pharmacy and Science)

## Annexure- I

### Research Publications – (Total Publications in National/ International Journal/Edited Books

**Total Publications –60 (published)**
Original Research Articles -08
Review Articles-17
Books Chapters – 24
Special Articles in Magazines/ Newspapers – 02
Books Authored/Edited – 04 (+ 04 in press)
Communicated/accepted /in press articles - 11

**Citations and h-index**

130 Google Scholar Citations and 09 h-index (January, 2022)

**List of Publications**

**Original Research Articles (No. 08)**

1. Om Prakash Gupta, Vanita Pandey, Ritu Saini, Tushar Khandale, Vipin Malik, **Ajeet Singh**, Sewa Ram and G.P. Singh. (2021). Comparative physiological, biochemical and transcriptomic analysis of hexaploid wheat roots and shoots provides new insights into the molecular regulatory network during Fe & Zn starvation. *Genomics*, 113; 3357-3373.

2. Manish Singh Sansi, Daraksha Iram, Sameena Zanab, Shilpa Vij, Anil Kumar Puniya, **Ajeet Singh**, Ashutosh, Sunita Meena (2022). Antimicrobial bioactive peptides from goat Milk proteins: In silico prediction and analysis. *Journal of Food Biochemistry*. e14311. doi.org/10.1111/jfbc.14311

3. Neelesh Babu, Vinay Mohan Pathak, **Ajeet Singh** and Navneet (2019). *Sonchus asper* leaves aqueous extract mediated synthesis of Titanium dioxide nanoparticles. *The Pharma Innovation Journal*: 8(4): 817-822.

4. Ankita Gautam, **Ajeet Singh**, Seema Dwivedi and Sushil Kumar Shahi (2019). Isolation and Characterization of Naphthalene and Pyrene Bio-remediating Soil Fungi. International Journal of Current Microbiology and Applied Sciences. 8(2): 599-607.

5. **Ajeet Singh** and Navneet (2017). Antimicrobial Potential and Phytochemical Analysis of *Barleria lupulina* Lindl. (aerial parts) Extracts Against Common Respiratory Tract Pathogens. *International Journal of Pharmaceutical and Clinical Research.* 9(7): 534-538.

6. **Ajeet Singh**, Vinay Mohan Pathak and Navneet (2016). Screening of Antimicrobial Potential of *Barleria prionitis* Linn. Aerial Parts Against Common Respiratory Tract Pathogens. *International Journal of Current Microbiology and Applied Sciences*. doi:10.20546/ijcmas.2016.507.059.

7. **Ajeet Singh** and Navneet (2016). Evaluation of Antimicrobial Potential and Phytochemical Assessment of *Citrus maxima* Burm. Seeds Extracts Against Respiratory Tract Pathogens. *New York Science Journal*. doi:10.7537/marsnys090916.02.

8. Vinay Mohan Pathak, **Ajeet Singh** and Navneet. (2016). Screening and Characterization of Cellulose Degrading Bacterial isolates of Wastes Disposal site. *International Journal of Current Microbiology and Applied Sciences*. doi: 10.20546/ijcmas.2016.506.097.

**Review Articles Published (No. 17)**

9. Ramveer Singh, **Ajeet Singh,** Neelesh Babu and Navneet (2019). "Ethno-medicinal and Pharmacological activities of *Aegle marmelos* (Linn.) Corr: A Review". *The Pharma Innovation Journal*. 8(6):176-181.

10. **Ajeet Singh** and Navneet (2018). Ethnomedicinal, Pharmacological and Antimicrobial Aspects of *Moringa oleifera* Lam.: A review. *The Journal of Phytopharmacology*. 7(1): 45-50.

11. **Ajeet Singh** Shweta Dhariwal and Navneet (2018). Traditional uses, Antimicrobial potential, Pharmacological properties and Phytochemistry of *Viola odorata*: A Mini Review. *The Journal of Phytopharmacology*. 7(1B): 103-105.

12. **Ajeet Singh** and Navneet (2018). Critical Review on Various Ethonomedicinal and Pharmacological Activities of *Piper longum* Linn. (Long pepper or Pippali). *International Journal of Innovative Pharmaceutical Sciences and Research*. 6(01); 48-60. DOI: 10.21276/IJIPSR.2018.06.01.253.

13. **Ajeet Singh** and Navneet (2018). Ethnobotanical uses, Antimicrobial potential, Pharmacological properties and Phytochemistry of *Syzygium cumini* Linn. syn. *Eugenia jambolana* (jamun) – a review. *International Journal of Innovative Pharmaceutical Sciences and Research*. 6(01); 48-60. DOI: 10.21276/IJIPSR.2018.06.01.252.

14. **Ajeet Singh** and Navneet (2018). Ethnomedicinal, Pharmacological Properties and Phytochemistry of *Sida spinosa* Linn. A mini review. *The Journal of Phytopharmacology*. 7(1B): 88-91.

15. **Ajeet Singh** and Navneet (2018). Ethnobotanical, Pharmacological Benefits and Phytochemistry of *Sida cordifolia* (Linn.): A review. *International Journal of Pharmaceutical and Clinical Research*. 10(1): 16-21.

16. Sanyogita Singh, **Ajeet Singh**, Navneet, Vivek Srivastava (2018). "Ethnobotanical and Pharmacological Benefits of *Achyranthes aspera* Linn.: An Overview". *International Journal of Pharmaceutical Sciences Review and Research*. 48(2); 1-7.

17. Neelesh Babu, Akash, **Ajeet Singh,** Ramveer Singh and Navneet (2018). Therapeutics potential and pharmacological properties of *Leucas indica*: A review. *The Pharma Innovation Journal*: 7(7): 564-568.

18. **Ajeet Singh** and Navneet (2017). A review: Traditional, Ethnomedicinal Utilization, Pharmacological Properties and Phytochemistry of *Barleria prionitis* Linn. *International Journal of Pharmaceutical Sciences Review and Research*. 44(2), 19-26.

19. **Ajeet Singh** and Navneet (2017). Ethnomedicinal, Antimicrobial and Pharmacological aspects of *Malva parviflora* Linn.: A review. *The Journal of Phytopharmacology*. 6(4); 247-250.

20. **Ajeet Singh** and Navneet (2017). Ethnobotanical, Pharmacological, Antimicrobial potential and Phytochemistry of *Parthenium hysterophorus* Linn.: An update. *International Journal of Toxicological and Pharmacological Research*. 9(4); 229-235.

21. **Ajeet Singh** Raj Singh and Navneet (2017). Ethnomedicinal, Pharmacological, Antimicrobial potential and Phytochemistry of *Trichosanthes anguina* Linn.-A review. *Bulletin of Pure and Applied Sciences. Vol.36 B (Botany), No.2. Jul-Dec 2017: P.*82-90.

22. Neelesh Babu, **Ajeet Singh**, Ramveer Singh and Navneet. (2017). A review on Therapeutic Potential and Phytochemistry of *Tephrosia purpurea*. *Bulletin of Pure and Applied Sciences. Vol.36 B (Botany), No.2. Jul-Dec 2017:*91-104.

23. **Ajeet Singh** and Navneet (2017). Pharmacology, Antimicrobial potential, Phytochemistry and Ethnomedicinal utilization of *Sida rhombifolia*: A review. *International Journal of Innovative Pharmaceutical Sciences and Research*. 6(2): 1-15.

24. **Ajeet Singh** and Navneet (2017). *Citrus maxima* (Burm.) Merr. A Traditional Medicine: Its Antimicrobial Potential and Pharmacological Update for Commercial Exploitation in Herbal Drugs–A Review. *International Journal of ChemTech Research*. 10(5): 642-651.

25. **Ajeet Singh** Navneet (2016). A Review on Medicinal Plants and Herbs of Uttarakhand (India): Its Traditional, Ethnomedicinal and Antimicrobial Potential. *Nature and Science Journal*. doi: 10.7537/marsnsj141216.16.

## Annexure- II

**Chapters Published in Edited Books (No. 24)**

26. **Ajeet Singh**, Omprakash Gupta, Vanita Pandey, Sewa Ram and Gyanendra Pratap Singh (2022). Physicochemical Components of Wheat Grain Quality and Advances in Their Testing Methods. In Book "***New Horizons in Wheat and Barley Research***". 741-757. Springer Nature. ISBN: 978-981-16-4134-3

27. **Ajeet Singh**, Navneet, Ankita Gautam and Bikarma Singh (2022). Antiviral Effects of Medicinal Plants and their Active Phytochemical Constituents against Respiratory Diseases and associated Biological Functions. In ***Antiviral Agents for Coronavirus and other Killer Viral Diseases in Drug Discovery*** (Edi. Chukwuebuka Egbuna) Elsevier. Volume-2, pp: 23-54. ISBN-9780323851565.

28. **Ajeet Singh**, Navneet, Ankita Gautam and Bikarma Singh (2022). Herbal-Based Resources with Exanthematous and other viral diseases. In ***Antiviral Agents for Coronavirus and other Killer Viral Diseases in Drug Discovery*** (Edi Chukwuebuka Egbuna) Elsevier. Pp: 173-202. ISBN-9780323851565.

29. Bhumika Varshney, Sumit Malik, **Ajeet Singh** and Nikhil Mehta (2022). Role of Medicinal Plants and Herbs in Veterinary Medicine. In ***Advanced Phytochemicals and Plant-based Drug Discovery"***, USA. ISBN-9781668451298: pp: 32-48. IGI Global publisher, USA.

30. Bhumika Varshney, Sumit Malik, **Ajeet Singh** and Nikhil Mehta (2022). Role of Medicinal Plants and Herbs in Veterinary Medicine. In ***Advanced Phytochemicals and Plant-based Drug Discovery"***, USA. ISBN-9781668451298: pp: 32-48. IGI Global publisher, USA.

31. **Ajeet Singh**, Priyanka Mishra, Neha Patwa, Mazidi Zolbin, Nikhil Mehta, Ankita Gautam, Kanchan Joshi and Navneet Bithel (2022). Implications and Future Perspectives of Nanomedicine and Plant-Based Biogenic Nanoparticles (NPs) for Cancer Management. In ***Advanced Phytochemicals and Plant-based Drug Discovery"***, USA. ISBN-9781668451298: pp: 414-431. IGI Global publisher, USA.

32. **Ajeet Singh**, Bikarma Singh and Navneeet (2022). Role of Medicinal Plants and their Bioactive Compounds in Cancer Care and Prevention. In *Role Nutrigenomics in Modern-day Healthcare and Drug Discovery* (Edi. Tupas, and Chukwuebuka Egbuna). Elsevier. Pp: 439-468. ISBN-9780128244128

33. **Ajeet Singh**, Bikarma Singh and Navneeet (2022). Role of Medicinal Plants and their Bioactive Compounds in Obesity, Hypertension and Cardiovascular Diseases. In *Role Nutrigenomics in Modern-day Healthcare and Drug Discovery* (Edi. Tupas and Chukwuebuka Egbuna). Pp: 469-515. Elsevier. ISBN-9780128244128

*34.* Rajneesh Thakur, Nikhil Mehta, **Ajeet Singh**, Kanchan Joshi, Ankita Gautam, Navneet Bithel (2022). Techniques for the Isolation of Plant-Based Bioactive Compounds. In *Isolation, Characterization and Therapeutic Applications of Natural Bioactive Compounds*. ISBN- 9781668473375. IGI Global, USA.

35. Tamanna Roy, Pooja Verma and **Ajeet Singh** (2021). Herbal Compounds as antibacterial negotiator: medicinal plants with antibacterial potential. In "*Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds"*. Nova Science publishers, USA. Pp: 26-48. ISBN-978-1-5361-959-8.

36. Priyanka Sharma and **Ajeet Singh** (2021). Therapeutic values of Medicinal Plants and Bioactive Phytochemicals for Mouth Infection and Dental Decay Diseases. In *"Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds"*. Nova Science publishers, USA. Pp: 133-141. ISBN-978-1-5361-959-8.

37. Ankit Kumar, Rashi Miglani, Mahendra Rana, Satpal Singh Bisht and **Ajeet Singh** (2021). Herbal Drug Discovery update for Jaundice and other Hepatic diseases. In *"Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds"*. Nova Science Publishers, USA. Pp: 161-177. ISBN-978-1-5361-959-8.

38. Karanpriya, Veena Rani and **Ajeet Singh** (2021). Antimicrobial Properties of *Curcuma longa* L. In *"Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds"*. Nova Science Publishers, USA. Pp: 215-230. ISBN-978-1-5361-959-8.

39. Ankita Gautam and **Ajeet Singh** (2021). Fungal based Biogenic Synthesis of Nanomaterial from Fungi and Their Pharmacological Uses. In *"Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds"*. Nova Science Publishers, USA. pp: 248-ISBN-978-1-5361-959-8.

40. Neelesh Babu, **Ajeet Singh**, and Navneet (2020). Traditional Herbs with Potential Wound Healing Properties. *In* Advanced in Pharmacological Uses of Medicinal Plants and Natural Products". (eds. Singh A., Singh, P., and Navneet). pp: ISBN- 9781799820949.

41. Raghu HV, **Ajeet Singh,** Naresh Kumar (2020). Role of biosensors in dairy food safety and quality. (edi. Santosh Kumar Mishra). Apple Academic Press (Apple CRC Press), USA. pp: 275-285. ISBN-ISBN-9781799820949.

42. Madhu Rani, Rubina Chongthom, and **Ajeet Singh** (2020). Anti-Ulcer Activities of Medicinal Plants and Natural Products. *In* Advanced in Pharmacological Uses of Medicinal Plants and Natural Products". (eds. Singh A., Singh, P., and Navneet). pp: ISBN-9781799820949.

43. Navneet, **Ajeet Singh**, Neelesh Babu and Ramveer Singh (2017). Status and Advancement of Biopesticides In: Advances in Life Sciences (eds., Som Dutt, Ashu Tyagi, Harish Pal Bhati, and Harjeet Singh). Prof. M.U. Charaya Felicitation Volume, S.R. Scientific Publications, New Delhi, ISBN- 978-93-83774-28-9; pp.210-229.

44. **Ajeet Singh**, Navneet, Shweta Dhariwal and Chhatarpal Singh (2018). Ethnomedicinal utilization and pharmacological benefits of *Terminalia chebula*: A miracle herbal medicine. In: *Pharmacological Benefits of Natural Products*. (Eds P. Saranraj, Glaucio Dire Feliciano and A. Jayaprakash) ISBN-978-81-934054-2-0, *JPS Scientific Publications* Tamil Nadu, India. 85-106.

45. **Ajeet Singh** and Navneet (2018). Pharmacological applications of *Barleria lupulina* Lindl. In: *Pharmacological Benefits of Natural Products*. (Eds P. Saranraj, Glaucio Dire Feliciano and A. Jayaprakash) ISBN- 978-81-934054-2-0, *JPS Scientific Publications* Tamil Nadu, India. 107-115.

46. **Ajeet Singh**, Navneet, Alka Sehrawat and Siddarth N. Rahul (2018). Pharmacological Utilizations and Antimicrobial Potential of *Azdirachta indica*: A potent ethno-medicine. In: *Pharmacological Benefits of Natural Products*. (Eds P. Saranraj, Glaucio Dire Feliciano and A. Jayaprakash) ISBN-978-81-934054-2-0. *JPS Scientific Publications* Tamil Nadu, India. 130-143.

47. Siddarth N. Rahul, Alka Sehrawat and **Ajeet Singh** (2018). Benefits of Pharmacologically Active Phytochemicals for Insect Pest Management. In: *Pharmacological Benefits of Natural Products*. (Eds P. Saranraj, Glaucio Dire Feliciano and A. Jayaprakash) ISBN- 978-81-934054-2-0, *JPS Scientific Publications* Tamil Nadu, India. 116-129.

48. **Ajeet Singh** Navneet, Neelesh Babu and Ramveer Singh (2018). Pharmacological Applications of *Sida acuta* (Burm). In: *Pharmacological Benefits of Natural Products*. (Eds P. Saranraj, Glaucio Dire Feliciano and A. Jayaprakash) ISBN-978-81-934054-2-0. *JPS Scientific Publications* Tamil Nadu, India. 144-155.

49. Vinay Mohan Pathak, **Ajeet Singh** and Navneet (2017). "Impact of Climate Change on Interaction and Response of Microbial Communities: Contribution, Problems and Risk assessment" *In* Climate Change: An Impact of Biodiversity" pp: 257-271. Biotech Books Publishers, New Delhi.

## Annexure- III

**Special Article Published in News Papers/ Magazines**

50. Vinay Mohan Pathak, **Ajeet Singh** and Navneet (2016). Paryavaran Main Plastic. Vigyan Pragti. VP Vol.64-65(09) [September 2016]. 49-50.

51. **Ajeet Singh** (2019). Herbal Informatics: A New Approach in Biotechnology. ICAR-NDRI Newsletter.

## Annexure- VI

**BOOKS PUBLICATIONS (published/in press: No. 09/05)**

**Books Authored/Edited**

1. Published a book entitled ***"Plant-Based Functional Foods and Advanced Nutraceutical Technologies"*** published by *Bentham Science Publishers, Singapore*. ISBN in press (First Edition 2023)

2. Published a book entitled ***"Nutritional and Health Benefits of Medicinal Plants and Bioactive Compounds"*** published by *Apple Academic Press (AAP) CRC Press, Taylor and Francis groups, USA.* ISBN in press (First Edition 2023)

3. Published a book entitled ***"Therapeutic Role of Medicinal Plants and Bioactive Compounds Against Human Infectious Diseases"*** published by *Apple Academic Press (AAP) CRC Press, Taylor and Francis groups, USA.* ISBN in press (First Edition 2023)

4. Published a book entitled ***"Phytochemicals Based Drug Discovery: A Complementary and Alternative System of Medicine"*** published by *Nova Science Publishers*, USA. ISBN in press (First Edition 2023)

5. Published a book entitled ***"Advanced Phytochemicals and Plant-based Drug Discovery"*** published by *IGI Global publisher, USA.* ISBN-9781668451298 (First Edition 2022)

6. Published a book entitled "***Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds"*** *by IGI Global publisher, USA.* ISBN- 9781668473375 (First Edition 2022)

7. Published a book entitled **"*Objective Biotechnology*"** by (S.R. Scientific Publishers, Agra). ISBN-9781799820-222 (First Edition 2021)

8. Published a book entitled **"*Biopharmacological Uses of Medicinal Plants and their Bioactive Compounds*,"** published by *Nova Science Publishers, USA.* ISBN-978-1-5361-959-8. (First Edition 2021)

9. Published a book entitled **"*Advanced Pharmacological Uses of Medicinal Plants and Natural Products"***, published by *IGI-Global Publishers, USA.* ISBN-9781799820-949 (First Edition 2020)

## Annexure- VII

## Paper presented in National Conferences/Seminars/Symposium-

1. Presented a paper In National Conference Sponsored by National Medicinal Plants Board (Ministry of AYUSH, Govt. of India). Recent Advances in Ayurvedic Herbal Medicine- From Source to Manufacturing. Organised by Faculty of Biomedical Sciences, Uttarakhand Ayurved University, Dehradun 15th and 16th September 2017 at CSIR-IIP (Council for Scientific and Industrial Research - Indian Institute of Petroleum), Dehradun (Uttarakhand).
2. Presented a paper (poster/oral) entitled "Antibacterial activity of *Malva parviflora* Linn. seeds extracts against respiratory tract pathogens" in 8th Uttarakhand State Science & Technology Congress-2013, held from 26 to 28 December 2013 at Doon University Dehradun Uttarakhand. (In proceeding of Conference, pp-88).
3. Presented a paper (poster/oral) entitled "Antibacterial potency of *Sida spinosa* (Linn) leafs extract against common respiratory tract pathogens" in the National Symposium on Innovations in Sciences and Technology for Inclusive Development" organized by Haridwar Chapter of the Indian Science Congress Association on February 16, 2014. (In proceeding of Symposium, pp-39).
4. Presented a paper (poster/oral) entitled "Evaluation of antibacterial activity of *Citrus maxima* seeds extracts against common respiratory tract infections causing pathogens" National Conference on Recent Advances in Biosciences and Drug Discovery on 03- 04 March, 2014 Sponsored by the Department of Pharmaceutical Sciences, Faculty of Ayurved and Medical Sciences Gurukul Kangri University, Haridwar (Uttarakhand) (In proceeding of Conference, pp-8).
5. Presented a paper entitled "Amylase production by yeast cells immobilized on polyurethane foam (PUF) under repeated batch fermentation". National Conference on Science and Technology for Indigenous Development in India, organized by the Indian Science Congress Association: Haridwar Chapter and Faculty of Engineering and Technology Gurukul Kangri University, Haridwar, India on September 28-30, 2015.
6. Presented a paper "*In vitro* phytochemical analysis and antimicrobial potential of some Indian medicinal and aromatic plants (MAPs) against common respiratory tract infections (RTI) causing

pathogens." 5th National Conference on Chemical Sciences Emerging Scenario and Global Challenges, 26 March, 2016. pp.22. Organized by the Indian science congress association (ISCA, Kurukshetra Chapter) in the Department of Chemistry, Arya PG College, Panipat, Haryana, India. ISBN- 978-93-83861-79-8.

7. Presented a paper entitled "Antifungal susceptibility of some crude extracts of common weeds plants (*Parthenium hysterophorus* and *Argemone maxicana*) against *Fusarium oxysporum*, a wilt causing fungus." National Conference on Science and Technology for Human Development Organized by the Indian Science Congress Association Haridwar Chapter and Department of Ancient Indian History, Culture & Archaeology, Gurukul Kangri University, Haridwar, India. March, 20-21, 2015.pp38-39.
8. Presented a paper entitled "....." 10th State Uttarakhand State Science & Technology Congress 2015-16, 10-12 February at Uttarakhand State Council for Science & Technology, Vigyan Dham, Dehradun Organized by Council for Science & Technology, Dehradun, (Uttarakhand) India.
9. Singh A., Pathak VM, and Navneet (2015) "*Evaluation of Phytochemical and antibacterial potential of Barleria leaves extracts against respiratory tract pathogens*". National Seminar on Challenges in Plant Sciences: Now and Then", December 08–10, 2015. Department of Botany, Chaudhary Charan Singh University, Meerut. pp 31–32.

**Annexure- V**

## Paper Presented in International Conferences/ Seminars/ Symposium/ proceedings publications

10. Presented a paper entitled "*In vitro* antibacterial and phytochemical evaluation of *Sida spinosa* (Linn.) methanolic extract against respiratory tract infections causing pathogens." International Conference on Advances in Science, Engineering and Technology, ICASET, January 29-30, 2016. Organized by International Journal of Advance Research and Innovation & International Council for Man and Nature. pp.57.

**Annexure- VI**

## Conference/Workshop/Training/Seminar Attended

1. Attended a CFAT course on "Rapid Biosensors and Micro Techniques for Monitoring Contaminants and Adulterants in Dairy Foods" sponsored by Agricultural Education Division, Indian Council of Agricultural Research under the aegis of centre of advanced faculty training in dairy processing organized by Dairy Microbiology Division ICAR-NDRI Karnal (Haryana) from 4th to 24th January 2019.
2. Attended a training program on "Quality management system internal auditor" held on 3rd to 5th Oct 2018 on 9001:2015 standard in ICAR-NDRI, Karnal-132001 Haryana (India).
3. Attended a workshop on "Molecular Biology" organized by Department of Botany and Microbiology 9-10th March 2018, Gurukula Kangri University Haridwar Uttarakhand, (India).
4. Attended a workshop on "IPR Issues" 2018 Gurukula Kangri University Haridwar, Uttarakhand (India).
5. Participated one-day workshop on "Patent Drafting, Filling and Processing (PDFP-2016) organized by Intellectual Property Rights Cell and Faculty of Medical Science and Health (FMSH) on 14th November, 2016 at Department of Pharmaceutical Sciences, Gurukula Kangri University, Haridwar, Uttarakhand, India.
6. Attended a workshop on "Laboratory Diagnosis of Microbial Infections" (Under Institute – Industry Interactions Program) on October 24, 2016. Organised by Department of Botany and Microbiology Gurukula Kangri University Haridwar Uttarakhand, India.

7. Attended an International conference on "Advances in Science, Engineering and Technology (ICASET-2016)" on 29-30, January 2016 organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University Haridwar, Uttarakhand, India.
8. Attended a National workshop on the topic, "Pathways and System-Integrated Approaches" in Department/ Centre of Biotechnology/Bioinformatics held in Himachal Pradesh University, Shimla from 15/09/2013 to 20/09/3013 sponsored by DST (Department of Science and Technology), New Delhi.
9. Attended a workshop National on the topic, "Advanced Pharmaceutical techniques in Microbiology" held in Department of Botany and Microbiology, Gurukul Kangri University Haridwar in 08/10/2013 Sponsored by UGC (University Grant Commission), New Delhi.
10. Attended a National workshop with hands on training on "Use of Bioinformatics in Crop Biotechnology" from 6th to 8th January by Department of Genetics and Plant Breeding (BIF) Chaudhary Charan Singh University, (Meerut), sponsored by Department of Biotechnology, New Delhi.
11. Attended a national workshop on "Taxonomic Keys and Identification of Different Groups of Flora and Fauna including the Molecular Tools" Sponsored by UCOST (Uttarakhand Council of Science and Technology, Dehradun, (Uttarakhand), Organized by Department of Zoology and Environmental Sciences from 3th to 8th March 2014.
12. Attended a National workshop on "Application of Remote Sensing and GIS in Water Resources Management" on "World Environmental Day" organized jointly by USAC & USERC, Dehradun in association with UCOST (Uttarakhand Council of Science and Technology), Dehradun and Doon University, Dehradun, (Uttarakhand) from 4th to 5th June, 2014.
13. Attended a National workshop on "Scientific Paper Writing and Technological Empowerment of Women" jointly organized by UCOST (Uttarakhand Council of Science and Technology), Dehradun and (National Academy of Science India) NASI, Uttarakhand Chapter from 17th to 18th June 2014.
14. Participated in a workshop on "Isolation and Characterization of Fungi" organised by Department of Botany and Microbiology, Gurukula Kangri University Haridwar on 8th November, 2014.
15. Participated in a Popular Science Lecture (Theme: Waste Water Treatment) jointly organised by Uttarakhand Science Education and Research Centre (USERC), Dehradun and Uttarakhand State Council for Science and Technology (UCOST), Dehradun at Gurukula Kangri University, Haridwar on 12th October, 2014.
16. Participated in a Workshop on "Advanced Microbiological Techniques in Pharmaceutical Industries" held at Department of Botany & Microbiology, Gurukula Kangri University Haridwar, Uttarakhand (India) on 06th October 2013.
17. Attended a National Conference on entitled "Role of Arya Samaj in Education" on March 28- 29, 2014, Organized by Dayanand Postgraduate College, Hisar (Haryana) Sponsored by Director General of Higher Education, Haryana (India).
18. Attended a three days training during September 2007 from "National Bureau of Plant Genetic Resources (NBPGR)", Nainital, Uttarakhand (India).
19. Attend one-day Training entitled "Air Pollution" during September 2008 from_Pollution Control Research Institute, Bharat Heavy Electrical Limited (BHEL) Haridwar, Uttarakhand (India).
20. Attend training from 23 November 2009 to 13 December 2009 in "Quality Control" in Taj Milk Food Ltd. Sambhal (Moradabad), Uttar Pradesh (India).
21. Attend training during 27-06-2011 to 15-07-2011 in the unit of "Fermentation, Distillation and Raw Material Analysis" in National Industrial Corporation Ltd. Raja-Ka-Sahaspur Bilari, Distt. Moradabad, (Uttar Pradesh) India.

**Personal profile –**

| | | |
|---|---|---|
| Father's Name | : | Shri Omprakash Singh |
| Date of Birth | : | 01th July, 1991 |
| Sex | : | Male |
| Nationality | : | Indian |
| Marital Status | : | Unmarried |
| Language Known | : | English & Hindi |

**References –**


1. Prof. (Dr.) Navneet (Dean & Head, Department of Botany and Microbiology)
   Department of Botany and Microbiology, Gurukula Kangri University, Haridwar Uttarakhand (India). Pin code- 249404, Contact No.: +91-7300761327; E-mail: navneetbithel@gmail.com
2. Dr. Bikarma Singh (Senior Scientist)
   CSIR-National Botanical Research Institute, Lucknow, India
3. Prof. (Dr.) M. U. Charaya (Ex. Head of the Department)
   Department of Botany Chaudhary Charan Singh University Campus, Meerut (UP) India drcharaya07@gmail.com; mob. 91-9412204346.


**Declaration –**

I declare that the statements made in this application are true to the best of my knowledge and belief.

Date:

Place:

**Dr. Ajeet Singh**