

Curriculum Vitae

Dr. Mohd. Sayeed Akhtar [Post-Doc (Swiss, Republic of Korea), FRUPM, Malaysia]

1. Personal details

Position : Assistant Professor
Marital status : Married
Sex : Male
Nationality : Indian
Corresponding Address : Department of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur
242001, Uttar Pradesh, India
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2. Teaching and Research Experiences

- Research : 17 years
- Teaching : 10 years

3. Educational Qualifications

Ph.D. (2008) **Major: Botany**
Specialization: Plant Pathology and Microbiology
Institute: Aligarh Muslim University, Aligarh, India
Thesis Title: Evaluation of AM fungi and other phosphate solubilizing microorganisms for the management of root-rot disease complex of chickpea

M.Sc. (2001) **Major: Botany**
Specialization: Plant Pathology
Institute: V.B.S. Purvanchal University, Jaunpur, India

B.Sc. (1999) **Major: Biology**
Institute: D.D.U. Gorakhpur University, Gorakhpur, India

4. Professional Experiences/Appointments

- **Assistant Professor, Level 11**, Gandhi Faiz-e-Aam College, Shahjahanpur, Uttar Pradesh, India (From 08.10.2019-till date)
- **Assistant Professor, Level 10**, Gandhi Faiz-e-Aam College, Shahjahanpur, Uttar Pradesh, India (From 08.10.2015-07.10.2019) **Promotion Due**
- **Fellow Researcher UDQ9**, Institute of Tropical Agriculture, University Putra Malaysia, Selangor, Malaysia (From 04.09.2014-03.09.2015)
- **Assistant Professor**, Department of Biology, College of Natural Sciences, Jimma University, Jimma, Ethiopia (From 10.10.2011-17.03.2014)
- **Post Doctoral Fellow**, Environmental Biotechnology National Research Laboratory, CBNU, Republic of Korea (From 15.03.2011-15.09.2011)
- **Post Doctoral Fellow**, Botanical Institute, University of Basel, Switzerland (From 23.07.2008-31.05.2010)
- **Senior Research Fellow (Ext.)**, AMU, Aligarh, India (From 01.04.2008-21.07.2008)
- **Junior Research Fellow**, AMU, Aligarh, India (From 23.08.2003-30.06.2006 & 01.01.2007-31.03.2008)

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5. Administrative Positions

- ❖ *In-charge of Post-graduate Seminar* from 2015-till date
- ❖ *In-charge of Post-graduate Excursion Trip* from 2015-till date
- ❖ *Member of Admission Committee* from 2016-till date
- ❖ *Member of AISHE Committee* from 2018-till date
- ❖ *President of College Basketball Team* from 2016-2018
- ❖ *Member of Editorial Board of College Magazine* for Session 2017-2018
- ❖ *Member of M.J.P.R.U. Flying Squad Team* for Session 2017-2018
- ❖ *Member of Proctor Team of College* for Session 2018-2019
- ❖ *Member of Science Exhibition Committee* from 2017-2020
- ❖ *Member of Extra-curricular Committee* from 2018-2020
- ❖ *Member of IQAC Committee* from Session 2017-2018 & 2020-till date
- ❖ *Assistant Superintendent of M.J.P.R.U. Main Examination-2020* for Session 2020-2021

6. Academic Distinctions

- Listed in **World Top 2% Scientist of the World** (2020) by **Stanford University**, California, USA
- Awarded **Teacher Innovation Award** (2019) by **ZIIEI, Sri Arvindo Society**, Puducherry, India
- Awarded **Global Teachers Award** (2018) by **AKS Education Foundation**, New Delhi, India
- Awarded **Albert Nelson Marquis Award** (2018) by **Marquis Who's Who Society**, USA
- Awarded **Outstanding Scientist in Plant Pathology** (2017) by **VIRA**, Chennai, India
- Awarded **Albert Nelson Marquis Award** (2017) by **Marquis Who's Who Society**, USA
- Awarded **Best Researcher of the Year Award** (2016), **APSF, DST**, India
- Awarded **Fellow Researcher, UPM** (2015), **UPM**, Malaysia
- Awarded **Fellow Researcher, UPM** (2014), **UPM**, Malaysia
- Biography published in books by **Marquis Who's Who in the World** (2014), USA
- Awarded **Research Fellow Position** (2012), **UPM**, Malaysia
- Awarded as **Postdoctoral Fellow** (2011), **Chonbuk National University**, Republic of Korea
- Selected for **CAS-TWAS Fellowship** (2010), **Institute of Microbiology, CAS**, China
- Awarded **Postdoctoral Fellow Position** (2010), **USM, Pinang**, Malaysia
- Awarded as **Postdoctoral Fellow** (2008), **Botanical Institute, University of Basel**, Switzerland
- Awarded as **Senior Research Fellow (Ext.)** (2008), **CSIR, New Delhi**, India
- Awarded as **Junior Research Fellow** (2003), **UGC, New Delhi**, India

7. Memberships of Learned Societies

- ✓ Mycorrhiza News (TERI PRESS), New Delhi
- ✓ The American Phytopathological Society, USA
- ✓ Centre for Study on Monoaxenic culture of AM fungi (CSEAMM), Belgium
- ✓ Alternative Nematode Control (ATTRA) Newsletter, USDA
- ✓ Bio-Organic Newsletter, USA
- ✓ International Scientific Academy of Engineering and Technology
- ✓ International service for the Acquisition of Agri-Biotech Application (ISAAA), Manila, Republic of the Philippines
- ✓ Advances in Life Sciences Journal (Life membership)

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8. Editorial Services

- **Associate Editor**, Plant Pathology Journal (<http://www.ansinet.com/eboard.php?issn=1812-5387>) (From 27th July 2019- To date)
- **Associate Editor**, Asian Journal of Plant Sciences (<https://scialert.net/eboard.php?issn=1682-3974>) (From 27th July, 2019-To date)
- **Associate Editor**, Research Journal of Nanoscience and Nanotechnology (<https://scialert.net/eboard.php?issn=1996-5044>) (From 27th July, 2019-To date)
- **Associate Editor**, Research Journal of Environmental Toxicology (<https://scialert.net/eboard.php?issn=1819-3420>) (From 27th July, 2019-To date)
- **Associate Editor**, International Journal of Agricultural Research (<https://scialert.net/eboard.php?issn=1816-4897>) (From 27th July, 2019-To date)
- **Associate Editor**, Current Green Chemistry (<https://benthamscience.com/journals/current-green-chemistry/editorial-board/#top>) (From 27th June, 2017-To date)
- Advisory Board Member of the Journal of the Entomological Research Society (JERS) (<http://www.entomol.org/advboard.php>) (From 10th May, 2017-To date)
- **Associate Editor**, Journal of Advanced Science, Environment and Medicine (<http://www.ksp-jasem.com/editorial-board.html>) (From 10th May, 2017-To date)
- **Review Editor**, Frontier in Plant Science: Plant Biotic Interaction (<http://journal.frontiersin.org/journal/plant-science/section/plant-biotic-interactions>) (From 14th January, 2016-To date)
- Member of International Scientific Academy of Engineering and Technology (<http://www.isaet.org/members.php?page=10>) (From 1st May, 2013-To date)
- **Editorial Board Member**, Nanoscience and Nanotechnology Research (<http://www.sciepub.com/journal/nnr/EditorialBoard>) (From 1st January, 2013-To date)

9. Courses Taught at Graduate / Post Graduate Levels

S.No.	Name of Courses	Level of Class
1.	Diversity of Viruses, Bacteria and Fungi	UG
2.	Diversity of Algae, Lichens and Bryophytes	UG
3.	Diversity of Pteridophytes and Gymnosperms	UG
4.	Plant Physiology and Biochemistry	UG
5.	Environment Botany and Plant Pathology	UG
6.	Phycology and Microbiology	PG
7.	Mycology and Plant Pathology	PG
8.	Plant Anatomy, Embryology and Morphogenesis	PG
9.	Environmental Microbiology	PG
10.	Applied Mycology	PG
11.	Introduction to Biotechnology	PG
12.	Reports in Scientific Writing	UG/PG

10. Research Interest

- Interactions of rhizospheric microorganisms, particularly AM fungi and PGPR
- Functional diversity of AM fungi and their field application
- Production of secondary metabolites by microbes and mode of action
- Signaling of molecules responsible for ISR in plants against pathogens
- Interaction of plant parasitic nematodes, and pathogenic fungi
- Biosynthesis of precious metals and their applications
- Biodiversity and distribution of medicinal and aromatic plants

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11. Worked on Project

- Evaluation of AM fungi and other phosphate solubilizing microorganisms for the management of root-rot disease complex of chickpea, UGC, New Delhi, India (From 23rd August 2003-30th June 2006 and January 1st 2007-30th March 2008)
- Bio-control of root rot disease complex by bacterial antagonist, CSIR, New Delhi, India (From April 1st 2008- July 21th 2008).
- Population dynamics of arbuscular mycorrhizal fungi under transgenic strawberry and their wild relatives, SNF, Switzerland (From 23rd July 2008 - 31th May 2010).
- Biosynthesis of precious metal nanoparticles using plant extracts and their applications, WCU, CBNU, Republic of Korea (From 15th March 2011-15th September 2011).

12. Summary of Research Guidance/Thesis Evaluation

Thesis Supervised = 02				
S. No.	Name of Candidates	Title of Thesis	Type of Thesis	Year of Award
1.	Guteta Birhanu	Antimicrobial activity of <i>Piper nigrum</i> and <i>Cassia didymobotyra</i> leaf extract on some selected food borne pathogens	Master	2013
2.	Zebeay Gezahegn	Isolation and characterization of food associated bacterial strains and their sensitivity towards <i>Thevetia peruviana</i> leaves extract and <i>Callistemon citrinus</i> essential oil in Jimma town	Master	2014
Thesis Evaluated = 05				
S. No.	Name of Candidates	Title of Thesis	Type of Thesis	Year of Award
1.	Mulugeta Fantahun	Isolation and phenotypic characterization of haricot bean nodulating Rhizobia in Jimma Zone, Southwestern Ethiopia	Master	2011
2.	Sintayehu Birhanu	Antifungal activities of some spice extract against post-harvest fruits spoilage moulds	Master	2012
3.	Tadesse Begashawu	Antibacterial activity of some medicinal plants growing in Sigimo District, Jimma Zone, Southwestern Ethiopia	Master	2012
4.	Shiferaw Demissie	Isolation and characterization of some selected legumes phosphate solubilizing bacteria and their effect on growth of faba bean (<i>Vicia faba</i> L.), Jimma Zone, South Western Ethiopia	Master	2012
5.	Genet Getachew	Optimization of compost maturity of coffee waste mixed with agricultural wastes and evaluation of its maturity effect on the growth of Lettuce (<i>Lactuca sativa</i> L.)	Master	2013

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13. Reviewer of the Journals (>100)

List of Some Selected Journals:

★ American Journal of Plant Sciences	★ International Journal of Pest Management
★ American Journal of Environmental Sciences	★ Intercontinental Journal of Microbiology
★ Applied Soil Ecology	★ Journal of Biomimetics, Biomaterials and Tissue Engineering
★ Artificial Cells, Nanomedicine and Biotechnology	★ Journal of Environmental Management
★ Australian Journal of Crop Science	★ Journal of Microbiological Methods
★ ACS Sustainable Chemistry and Engineering	★ Phytton
★ ACS Omega	★ Journal of Plant Nutrition
★ Biocontrol Science and Technology	★ Microbial Biotechnology
★ Bioresource Technology	★ Microbial Pathogenesis
★ Biotechnology Reports	★ Plant Pathology Journal
★ Biology and Fertility of Soils	★ Plant Physiology and Biochemistry
★ Brazilian Journal of Microbiology	★ Plant Physiology and Molecular Biology of Plants
★ Crop Protection	★ Physiologia Plantarum
★ Frontier in Plant Science	★ Scientia Horticulturae
★ HortScience	★ Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
★ International Journal of Agricultural Sciences	★ World Journal of Microbiology and Biotechnology

14. LIST OF PUBLICATIONS

A) Books / Monographs/Guest Editor/Proceedings

1. *Medicinal and Aromatic Plants: Ethnobotany, Pharmacognosy and Therapeutic Potentials (2021)* Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd (Communicated)
2. *Challenges for Biotechnology in Agriculture and drug Development (2020)* Edited by Yadav S, Akhtar MS, Moheman A, Diksha Prakashan, Delhi, p. 63 (ISSN: 978-93-90756-27-8)
3. *Salt Stress, Microbes and Plant Interactions: Mechanisms and Molecular Approaches-Volume2 (2019)* Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, p. 300 (ISSN: 978-981-13-8804-0)
4. *Salt Stress, Microbes, and Plant Interactions: Causes and Solution- Volume 1 (2019)* Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, p. 297 (ISSN: 978-981-13-8800-2)
5. *Natural Bio-active Compounds: Biotechnology, Bioengineering, and Molecular Approaches- Volume 3 (2019)* Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd, p. 330 (ISBN: 978-981-13-7437-1)
6. *Natural Bio-active Compounds: Chemistry, Pharmacology and Health Care Practices- Volume 2 (2019)* Edited by Swamy MK, Akhtar MS, Springer Nature, Singapore Pte, Ltd, p. 492 (ISBN: 978-981-13-7204-9)
7. *Natural Bio-active Compounds: Production and Applications- Volume 1 (2019)* Edited by Akhtar MS, Swamy MK, Sinniah UR, Springer Nature, Singapore Pte, Ltd, p. 608 (ISBN: 978-981-13-7153-0)
8. *Anticancer Plants: Mechanisms and Molecular Interactions-Volume 4 (2018)* Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd, p. 360 (ISBN: 978-981-10-8416-4)

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9. *Anticancer Plants: Clinical Trials and Nanotechnology-Volume 3* (2018) Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd, p. 322 (ISBN: 978-981-10-8215-3)
10. *Anticancer Plants: Natural Products and Biotechnological implements-Volume 2* (2018) Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd, p. 564 (ISBN: 978-981-10-8215-3)
11. *Anticancer Plants: Properties and Application-Volume 1* (2018) Edited by Akhtar MS, Swamy MK, Springer Nature, Singapore Pte, Ltd, p. 582 (ISBN: 978-981-10-8547-5)
12. *Plant, Soil and Microbes: Mechanisms and Molecular Interactions- Volume 2* (2016) Edited by Hakeem KR, Akhtar MS, Springer, International Publishing Switzerland, p. 438 (ISBN: 978-3-319-29572-5)
13. *Plant, Soil and Microbes: Implications in Crop Science- Volume 1* (2016) Edited by Hakeem KR, Akhtar MS, Abdullah SNA, Springer, International Publishing Switzerland, p. 366 (ISBN: 978-3-319-27453-9)
14. *A special issue on Biosynthesis of Nanomaterials and their Applications* (2014) Edited by Akhtar MS, Ahmad U, Reviews in Advanced Sciences and Engineering 3(3):197-274 (ISSN: 2157-9121) (doi:10.1166/rase.2014.1063)
15. *Management of root-knot nematode (Meloidogyne incognita) on tomato: By Plant Health Promoting Bacteria* (2011), Edited by Akhtar MS, Singh P, Siddiqui ZA, LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr., Germany, p. 84 (ISBN: 978-3-8443-9583-9)
16. *Biocontrol of root-rot disease complex of chickpea: By Arbuscular mycorrhizal fungi and other phosphate solubilizing microorganisms* (2011), Edited by Akhtar, MS, LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr., Germany, p. 152 (ISBN: 978-3-8443-9004-9)
17. *Mycorrhizae: Sustainable Agriculture and Forestry* (2008), Edited by Siddiqui, ZA, Akhtar, MS, Futai, K, Springer, Dordrecht, The Netherlands, p. 362 (ISBN: 978-1-4020-8769-1)

B) Book Chapters

18. Akhtar MS, Alaraidh IA, Hakeem KR (2019) Experimental approaches for genome sequencing. In: *Essentials of Bioinformatics-Volume III*, Edited by Hakeem KR, Shaik NA, Banaganapalli B, Elangi R, Springer International Publishing, Switzerland, pp. 159-165
19. Akhtar MS, Alaraidh IA, Swamy MK (2019) Data measurement, data redundancy, and their biological relevance. In: *Essentials of Bioinformatics-Volume III*, Edited by Hakeem KR, Shaik NA, Banaganapalli B, Elangi R, Springer International Publishing, Switzerland, pp. 103-107
20. Mustafa G, Akhtar MS (2019) Crops and methods to control soil salinity. In: *Salt Stress, Microbes and Plant Interactions: Mechanisms and Molecular Approaches- Volume 2*, Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, pp. 237-251
21. Kumar M, Akhtar MS (2019) Application of microbial biotechnology in improving Salt stress and crop productivity. In: *Salt Stress, Microbes and Plant Interactions: Mechanisms and Molecular Approaches- Volume 2*, Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, pp. 133-159
22. Ahmad I, Akhtar MS (2019) Use of nanoparticles in alleviating salt stress. In: *Salt Stress, Microbes, and Plant Interactions: Causes and Solution- Volume 1*, Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, pp. 199-215
23. Swamy MK, Nalina N, Nalina D, Akhtar MS, Purushotham B (2019) Heavy metal stress and tolerance in plants mediated by rhizospheric microbes. In: *Salt Stress, Microbes, and Plant Interactions: Causes and Solution- Volume 1*, Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, pp. 181-198
24. Mustafa G, Akhtar MS, Abdullah R (2019) Global concern for salinity on various agro-ecosystems. In: *Salt Stress, Microbes, and Plant Interactions: Causes and Solution- Volume 1*, Edited by Akhtar MS, Springer Nature, Singapore Pte, Ltd, pp. 1-19

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25. Aasim M, Sameeullah M, Karataş M, Bakirci S, Allah Bakhsh, A, **Akhtar MS** (2019) An Insight into biotechnological approaches used for improvement and secondary metabolites for medicinal aquatic plant, Water hyssop (*Bacopa monnieri* L.). In: **Natural Bio-active Compounds: Biotechnology, Bioengineering, and Molecular Approaches- Volume 3**, Edited by **Akhtar MS**, Swamy MK, Springer Nature, Singapore Pte, Ltd, pp. 123-152
26. Kalam MA, Ahmad G, Shahzad A, Maqbul SAM, **Akhtar MS** (2019) Therapeutic potential of rhizomatous plants used in Unani medicare system. In: **Natural Bio-active Compounds: Chemistry, Pharmacology and Health Care Practices-Volume 2**, Edited by Swamy MK, **Akhtar MS**, Springer Nature, Singapore Pte, Ltd, pp. 409-464
27. Ansari IA, **Akhtar MS** (2019) Current Insights on the role of terpenoids as anticancer agents: A perspective on cancer prevention and treatment. In: **Natural Bio-active Compounds: Chemistry, Pharmacology and Health Care Practices-Volume 2**, Edited by Swamy MK, **Akhtar MS**, Springer Nature, Singapore Pte, Ltd, pp. 53-80
28. Saboon, Chaudhari SK, Arshad S, Amjad MS, **Akhtar MS** (2019) Natural compounds extracted from medicinal plants and their applications. In: **Natural Bio-active Compounds: Production and Applications- Volume 1**, Edited by **Akhtar MS**, Swamy MK, Sinniah UR, Springer Nature, Singapore Pte, Ltd, pp. 193-207
29. Ansari IA, **Akhtar MS** (2019) Recent insights on the anticancer properties of Flavonoids: Prospective candidates for cancer chemoprevention and therapy. In: **Natural Bio-active Compounds: Production and Applications- Volume 1**, Edited by **Akhtar MS**, Swamy MK, Sinniah UR, Springer Nature, Singapore Pte, Ltd, pp. 425-448
30. Javid S, Chaudhari SK, Munir I, Amjad MS, Akbar KF, Yasmeen F, **Akhtar MS** (2019) Plant metabolites and pharmacological activities of *Leptadenia pyrotechnica* (Forssk.) Decne. In: **Natural Bio-active Compounds: Production and Applications- Volume 1**, Edited by **Akhtar MS**, Swamy MK, Sinniah UR, Springer Nature, Singapore Pte, Ltd, pp. 551-560
31. Akhtar N, Chaudhari SK, Arshad S, Fatima H, Amjad MS, Saboon (2019) Biological activities and nutritional value of *Physalis peruviana* L. In: **Natural Bio-active Compounds: Production and Applications- Volume 1**, Edited by **Akhtar MS**, Swamy MK, Sinniah UR, Springer Nature, Singapore Pte, Ltd, pp. 587-598
32. Khan I, Yusuf MA, Ansari IA, Akhtar MS (2018) Anticancer potential of Andrographolide, a diterpenoid lactone from *Andrographis paniculata*: A nature's treasure for chemoprevention and therapeutics. In: **Anticancer Plants: Mechanisms and Molecular Interactions-Volume 4**, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 143-163
33. Parasar NR, Chikkaputtaiah C, Lal M, **Akhtar MS** (2018) Metabolomic study of chemo-preventive phytochemicals and their therapeutic prospects. In: **Anticancer Plants: Mechanisms and Molecular Interactions-Volume 4**, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 197-207
34. Ansari IA, Khan I, Khan MS, **Akhtar MS** (2018) Organosulfur compounds of garlic as potent chemotherapeutic agents against cancer. In: **Anticancer Plants: Clinical trials and Nanotechnology-Volume 3**, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 253-272
35. Lal M, Parasar NR, Chikkaputtaiah C, **Akhtar MS** (2018) Potentiality of anticancer plant derived compounds of North-East India. In: **Anticancer Plants: Properties and Applications-Volume 1**, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 77-89
36. Vijaya Kumar V, Swamy MK, **Akhtar MS** (2018) Anticancer plants and their conservation strategies. In: **Anticancer Plants: Properties and Applications-Volume 1**, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 455-483

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37. Ahmed H, Jurimi AS, Swamy MK, Hamdani MSA, Omar D, Rafii MY, Sinniah UR, **Akhtar MS** (2018) Botany, chemistry and pharmaceutical significance of *Sida cordifolia*- A Traditional medicinal plant. In: ***Anticancer Plants: Properties and Applications-Volume 1***, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 517-538
38. Angelini P, Tirillini B, Akhtar MS, Dimitriu L, Bricchi E, Bertuzzi G, Venanzoni R (2018) Essential oil with anticancer activity: An overview. In: ***Anticancer Plants: Natural Products and Biotechnological Implements-Volume 2***, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 207-231
39. Gupta PK, Agrawal P, Hedge P, Akhtar MS (2018) Xylooligosaccharides and their anticancer potential: An update. In: ***Anticancer Plants: Natural Products and Biotechnological Implements-Volume 2***, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 255-271
40. Swamy MK, Paramashivaiah S, Hiremath L, Akhtar MS, Sinniah UR (2018) Micropropagation and conservation of selected endangered anticancer medicinal plants from the Western Ghats of India. In: ***Anticancer Plants: Natural Products and Biotechnological Implements-Volume 2***, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 481-505
41. Behera S, Rath S, **Akhtar MS**, Naik SK (2018) Biotechnological intervention through tissue culture in *Hedychium coronarium*: A potential anticancer plant. In: ***Anticancer Plants: Natural Products and Biotechnological Implements-Volume 2***, Edited by **Akhtar MS**, Swamy MK. Springer Nature, Singapore Pte, Ltd, pp. 551-564
42. **Akhtar MS**, Swamy MK, Alaraidh IA, Panwar J (2017) Genomic data resources and data mining. In: ***Plant Bioinformatics***, Edited by Hakeem KR, Malik A, Sukan FV, Ozturk M, Springer International Publishing, Switzerland, pp. 267-278 doi: 10.1007/978-3-319-67156-7_10
43. Swamy MK, **Akhtar MS**, Sinniah UR (2016) Root exudates and their molecular interactions with rhizospheric microbes. In: ***Plant, Soil and Microbes: Mechanisms and Molecular Interactions***, Edited by Hakeem KR, and **Akhtar MS**. Springer International Publishing Switzerland, pp. 59-77. doi: 10.1007/978-3-319-29573-2_4
44. Swamy MK, **Akhtar MS**, Sinniah UR (2016) Response of PGPR and AM Fungi toward growth and secondary metabolite production in medicinal and aromatic plants. In: ***Plant, Soil and Microbes: Mechanisms and Molecular Interactions***, Edited by Hakeem KR, and **Akhtar MS**. Springer International Publishing Switzerland, pp. 147-170. doi: 10.1007/978-3-319-29573-2_7
45. Khan AA, Ahmad S, **Akhtar MS** (2016) Occurrence, distribution, and molecular identification of phytoplasma-associated diseases in ornamental plants. In: ***Plant, Soil and Microbes: Mechanisms and Molecular Interactions***, Edited by Hakeem KR, and **Akhtar MS**. Springer International Publishing Switzerland, pp. 205-223. doi: 10.1007/978-3-319-29573-2_10
46. Angelini P, Bricchi E, **Akhtar MS**, Properzi A, Fleming JLE, Tirillini B, Venanzoni R (2016) Isolation and identification of allelochemicals from ascocarp of Tuber species. In: ***Plant, Soil and Microbes: Mechanisms and Molecular Interactions***, Edited by Hakeem KR, and **Akhtar MS**. Springer International Publishing Switzerland, pp. 227-254. doi: 10.1007/978-3-319-29573-2_11
47. Khan MA, Paul B, Ahmad W, Paul S, Aggarwal C, Khan Z, **Akhtar MS** (2016) Potential of *Bacillus thuringiensis* in the management of pernicious Lepidopteran pests. In: ***Plant, Soil and Microbes: Mechanisms and Molecular Interactions***, Edited by Hakeem KR, and **Akhtar MS**. Springer International Publishing Switzerland, pp. 279-303. doi: 10.1007/978-3-319-29573-2_13
48. Abdullah SNA, **Akhtar MS** (2016) Plant and necrotrophic fungal pathogen interaction: Mechanism and mode of action. In: ***Plant, Soil and Microbes: Implications in Crop Science***, Edited by Hakeem KR, **Akhtar MS**, and Abdullah SNA. Springer International Publishing Switzerland, pp. 29-53. doi: 10.1007/978-3-319-27455-3_3

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49. **Akhtar MS**, Panwar J, Abdullah SNA, Swamy MK, Ashkani, S (2015) Biocontrol of plant parasitic nematodes by fungi: Efficacy and control strategies. In: ***Organic Amendments and Soil Suppressiveness in Plant Disease Management***, Edited by Meghvanshi MK, Varma A, Springer International Publishing, Switzerland, pp. 219-247. doi: 10.1007/978-3-319-23075-7_11
50. Khan MA, **Akhtar MS** (2015) Agricultural adaptation and climate change policy for crop production in Africa. In: ***Crop Production and Global Environmental Issues***, Edited by Hakeem KR, Springer International Publishing, Switzerland, pp. 437-441. doi: 10.1007/978-3-319-23162-4_18
51. Khan MA, Khan Z, Ahmad W, Paul B, Paul S, Aggarwal C, **Akhtar MS** (2015) Insect pest resistance: An alternative approach for crop protection. In: ***Crop Production and Global Environmental Issues***, Edited by Hakeem KR. Springer International Publishing, Switzerland, pp. 257-282. doi:10.1007/978-3-319-23162-4_11
52. Bhaduri D, Pal S, Purakayastha TJ, Chakraborty K, Yadav RS, **Akhtar MS** (2015) Soil quality and plant-microbe interactions in rhizosphere. In: ***Sustainable Agriculture Reviews 17***, Edited by Lichtfouse E. Springer International Publishing, Switzerland, pp. 307-335. doi: 10.1007/978-3-319-16742-8_9
53. Yadav BK, **Akhtar MS**, Panwar J (2015) Rhizospheric plant microbe interactions: A key factor to soil fertility and plant nutrition. ***Plant Microbe Symbiosis-Applied Facets***. Edited by Arora NK. Springer, India, pp. 127-145. doi:10.1007/978-81-322-2068-8_6
54. Rashid MH, Krehenbrink M, **Akhtar MS** (2015) Nitrogen-fixing plant-microbe symbioses. In: Sustainable Agriculture Reviews 15, Edited by Lichtfouse E. ***Springer International Publishing, Switzerland***, pp. 193-234. doi: 10.1007/978-3-319-09132-7_4
55. Bhargava A, Jain N, Barathi ML, **Akhtar MS**, Yun YS, Panwar J (2014) Synthesis, characterization and mechanistic insights of mycogenic iron oxide nanoparticles. In: ***Nanotechnology for Sustainable Development***. Edited by Diallo MS, Fromer NA, Jhon MS. Springer, New York, pp. 337-348. doi: 10.1007/978-3-319-05041-6_27
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57. Yadav RS, Meena SC, Patel SI, Patel KI, **Akhtar MS**, Yadav BK, Panwar J (2012) Bioavailability of soil P for plant nutrition. In: ***Farming for Food and Water Security, Sustainable Agriculture Reviews 10***, Edited by Lichtfouse E. Springer, Dordrecht, The Netherlands, pp. 177-200. doi:10.1007/978-94-007-4 500-1_8
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E) Participation in Faculty Development Programmes/Workshops/Training courses

1. **AMU Sponsored Faculty Development Programmes on Digitalisation of Education Content Through Open Source Tools** (Online) from Department of Commerce, Aligarh Muslim University, Aligarh from 6th-10th August, 2020.
2. **MHRD Sponsored Faculty Development Programmes on Managing Online Classes and Co-creating MOOCs** (Online) from Teaching and Learning Centre, Ramanujan College, University of Delhi from 25th-10th August, 2020 with Grade 'A'
3. **MHRD Sponsored Faculty Development Programmes on Advanced Concepts for Developing MOOCs** (Online) from Teaching and Learning Centre, Ramanujan College, University of Delhi from 2nd-17th July, 2020 with Grade 'A'
4. **UGC Sponsored Refresher Course in Disaster Management**, at UGC Human Resource Development Centre (HRDC), Aligarh Muslim University, Aligarh from 12th March 2019-2nd April 2019 with Grade 'A'.
5. **UGC Sponsored Orientation Program-CXLV**, at UGC Human Resource Development Centre (HRDC), Aligarh Muslim University, Aligarh from 20th February, 2017-21st March 2017 with Grade 'A'.
6. **Basic Geographic Information Systems (GIS)**, at Department of Biology, College of Natural Sciences, Jimma University, Jimma, Ethiopia on 10-12th January (2013).
7. **In Silico Molecular Modeling and Drug Design**, at Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India, on 18-19th March (2008).
8. **Bioinformatics Applications in Agriculture Research**, at Unit of Stimulation and Informatics, Post Graduate Agriculture Research Institute, New Delhi, India, on 25-27th February (2008).
9. **New and Emerging Trends in Nematological Research in the 21th Century with Particular Emphasis on Plant Protection**, at Department of Zoology, Aligarh Muslim University, Aligarh, India, on 26th February-3th March (2007).
10. **Nematodes as a Models in Biological Studies**, at Department of Zoology, Aligarh Muslim University, Aligarh, India, on 7-15th March (2005).

F) Organization of Seminar/Workshop/Webinars

1. **Organizing Secretary** of an International Webinar on **'How to Publish in a High Impact Journal: A to Z'** organized by **'Gulistan Botanica Society'**, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 6th September (2020).
2. **Co-organizing Secretary** of International E-Conference on **'Challenges for Biotechnology in Agriculture and Drug Development (CBADD-2020)'**, organized by Department of Biotechnology and Microbiology, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 20th June (2020).
3. **Organizing Secretary** of an International Webinar on **'Food Security, Safety and Sustainability'** organized by **'Gulistan Botanica Society'**, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 8th June (2020).
4. **Organizing Secretary** of a Webinar on **'Managing COVID-19: All you need to know'** organized by **'Gulistan Botanica Society'**, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 29th May, (2020).

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5. **Co-organizing Secretary of *DST Sponsored National Seminar on 'Frontier in Plant Science: Development and Environment (APSF 2016)'***, organized by '**Gulistan Botanica Society**', Department of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 26-27th November (2016).

G) Participated in Conferences/Symposium/Webinars

1. ***How to Publish in a High Impact Journal: A to Z*** organized by '**Gulistan Botanica Society**', Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 6th September (2020)
2. ***Viruses vs Environment: Causes and Effects***, organized by International Society of Environmental Relationship and Sustainability (ISERS), 29th August (2020)
3. ***Skill Development, Tie-up with Industry***, organized by Department of Biotechnology and Microbiology, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 28th August (2020)
4. ***The Challenges and Scientific Advances of SARS-COV 2***, organized by Department of Microbiology, Assam University in Collaboration with Springer Nature and Society for Environmental Sustainability, 27th August (2020)
5. ***International E-Conference on Challenges for Biotechnology in Agriculture and Drug Development (CBADD-2020)***, organized by Department of Biotechnology and Microbiology, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 20th June (2020)
6. ***Recent Trends in Applied Sciences: Challenges and Opportunities due to COVID-19***, organized by Department of Botany, Mohammad Ali Jauhar University, 17th-18th June (2020)
7. ***Food Security, Safety and Sustainability*** organized by '**Gulistan Botanica Society**', Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 8th June (2020)
8. ***Managing COVID-19: All you need to know*** organized by '**Gulistan Botanica Society**', Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India on 29th May, (2020).
9. ***National Conference on Recent Developments in Nanoscience and Green Chemistry (RDNGC-2020)***, organized by Department of Chemistry, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 1st-2nd February (2020).
10. **6th International Conference on Translational Approaches in Clinical, Environmental and Biotechnological Research (GenoPro-2019)**, organized by Department of Biotechnology, Invertis University, Bareilly, U.P., India, 11-12th October (2019).
11. **6th National Conference on Scientific Rationality and Socio-cultural Changes**, organized by Government (P.G.) College, Bisalpur, Philibhit, U.P., India, 20-21st January (2018).
12. **National Conference of Bio-degradation of wildlife, Environment and Biodiversity (B-WEB)**, organized by Department of Zoology, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 19-20th March (2017).
13. **National Seminar on Frontier in Plant Science: Development and Environment (APSF 2016)**, organized by '**Gulistan Botanica Society**', Department of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 26-27th (2016).
14. **2nd International Conference on Innovations in Chemical, Biological and Environmental Sciences (ICBCES)**, organized by S.S. College, Shahjahanpur, U.P., India, 12th February (2016).
15. **National Seminar on Promotion of Ethics and Human Values**, organized by Gandhi Faiz-e-Aam College, Shahjahanpur, U.P., India, 1st February (2016).
16. **International Conference on Medicinal Plants: Resource for Affordable New Generation Healthcare**, organized by CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India, 22-22nd March (2015).

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17. **4th National Symposium on Recent Advances in Analytical Sciences and Applications**, organized by Department of Chemistry, Jamia Hamdard, New Delhi, India, 9-10th February (2015).
18. **Seminar on Food and Feed Safety of Genetically Engineered Crops Containing Stacked Traits**, organized by Cititel Hotel, Kuala Lumpur, Malaysia, 5th February (2015).
19. **International Conference on Advances in Plant Biochemistry and Biotechnology, Improving Urban Development**, organized by Department of Biochemistry and Biotechnology, Serdang, Selangor, Malaysia, 9-10th December (2014).
20. **Leveraging Sustainable Development through Building a Green Economy in Ethiopia: Challenge and Opportunities**, organized by College of Agriculture and Veterinary Medicine, Jimma University, Jimma, Ethiopia, 6-7th February (2014).
21. **PACN Congress on Sustainability in Africa Energy, Water and Waste**, African Hall, Addis Ababa, Ethiopia, 3-5th December, p. 12 (2013).
22. **The Biological Society of Ethiopia, 23rd Annual Conference on Research, Technology, Incubation, Entrepreneurship, and Self Employment in Biosciences**, organized by Addis Ababa University, Ethiopia, 8-9th March (2013).
23. **Meeting National Development Challenges through Science, Technology and Innovations**, organized by College of Agriculture and Veterinary Medicine, Jimma University, Jimma, Ethiopia, 7-8th February (2013).
24. **The Role of Research and Education in the Implementation of Growth and Transformation Plant of Ethiopia**, organized by College of Agriculture and Veterinary Medicine, Jimma University, Jimma, Ethiopia on 26-27th January (2012).
25. **The Korean Society for Biotechnology and Bioengineering Spring Meeting**, at Jeju Phoenix Island, Republic of Korea on 14-16th February (2011).
26. **National Symposium on Current Trends in Biochemical, Biomedical and Environmental Sciences**, organized by Department of Biochemistry, Aligarh Muslim University, Aligarh, India on 22nd February (2011).
27. **National Seminar on Sustainable Agriculture and Environmental Health Problem and Solution**, organized by Department of Botany, R.S. Government College, Shivrajpur, Kanpur, India on 19th February (2011).
28. **Plant-Microbe Interaction Symposium of Zurich Basel Plant Science Centre**, organized by University of Basel, Switzerland, 13th November (2009).
29. **Benefits and Risks of the Deliberated release of Genetically Modified Plants**, at Bern, Switzerland on 2-3rd March (2009).
30. **XXXI All India Botanical conference and International Symposium on Plant Biology and Environment: Changing Scenario**, organized by Department of Botany, Allahabad, India, on 17-19th December (2008).
31. **Integrated Pest and Disease Management (IPDM) in Arid and Semi-arid Areas**, organized by Arid Forest Research Institute, Jodhpur, India, on 12-13th March (2008).
32. **Recent advances in Microbial Biofertilizers Production and Utilization Technology**, organized by Department of Botany, Iswar Saran Degree College, Allahabad, India, on 13-14th December (2007).
33. **Emerging trends in Plant Sciences: Biodiversity, Biotechnology & Environmental Conservation**, organized by School of studies in Botany, Jiwaji University, Gwalior, India on 28-30th November (2007).
34. **Research in Fungal Biology: Emerging Trends**, organized by Department of Botany, Punjabi University, Patiala, India, on 30-31th January (2007).

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