Curriculum vitae

Name : Dr. Hameeda Bee

Date of birth : 01.12.1975

Present Address : Associate Professor, Department of Microbiology
Plant Probiotics and Biosurfactants Lab
University College of Science
Osmania University
Hyderabad – 500 007, India

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Research Interests:

My lab focuses on Plant Probiotics and Biosurfactants production. We are working on production of microbial surfactants by Lactic acid bacteria, Bacillus, Pseudomonas, Streptomyces, Candida and their application in agriculture and food industry. Work is focused on valorization of lignocellulosic components for cost effective biosurfactant production for their use in agro-industrial sector.

Educational background

B.Sc (Microbiology)	1996	Osmania University, Hyderabad
MSc (Microbiology)	1998	Osmania University, Hyderabad
Ph.D (Microbiology)	2005	Osmania University, Hyderabad: **Thesis title: Studies on plant growth promoting bacteria and recycling of crop residues for sustainable agriculture**
PDF	2006-2007	DBT-PDF, ICRISAT, Hyderabad
PDF	2009-2010	University of Manitoba, Winnipeg, Canada

Research/Teaching Experience:

Feb 2021 – till date**,** **Associate Professor,** Dept. Microbiology Osmania University, India
May 2007 – Feb 2021, **Assistant Professor**, Dept. Microbiology Osmania University, India
Feb 2009 - Jan 2010, **PDF**, University of Manitoba, Winnipeg, Canada
July 2006 - May 2007, **DBT-PDF** (**Visiting Scientist),** ICRISAT, Patancheru
July 2005 - June 2006, **Visiting Scientist** at ICRISAT, Patancheru
Nov 2001 - Dec 2005, **Research scholar**, Department of Microbiology, OU and ICRISAT
Apr 2001 - Nov 2001, **Research trainee** at ICRISAT, Patancheru
July 1998 - Mar 2001, **Lecturer** at Mumtaz Degree College, Malakpet, Hyderabad

Awards/Recognitions

1. **Best oral paper presentation** on "Microbial surfactants: Emerging Biomolecules in Plant Protection" at National Conference on Plant Health for Food Security: Threats and Promises"organized by IPS and IISR, Lucknow, Feb 1-3, 2024
2. Received **State Award to Meritorious Teachers- 2021**, Best Teacher Award for the distinguished service as Teacher. September 5, 2021
3. Received the **Woman PGPR Scientist Award** for the contribution in PGPR Advancement for Sustainable Agriculture, during virtual 6th Asian PGPR National Conference held at Barkatullah University, Bhopal (September 3-4, 2021).
4. **Best oral paper presentation** on "Biosurfactants: Postbiotics for Plant Health"; January 06 to 07, 2021 at National Symposium (Virtual) on Advances in Phytopathology, IPS, Central zone.
5. **Best oral paper presentation** on "Microbial Surfactants from PGP and biocontrol bacteria"; January 16 to 20, 2020 at IPS 7th International Conference on Phytopathology in Achieving UN Sustainable Development Goals, New Delhi, India.
6. December, 2019. IWSA's Nanik Gurnani Award for **best oral paper presentation** at the XIV Triennial National Conference of IWA on "Women Led Science, Technology and Innovation", 11-13th December 2019. At ICMR – NIN, Hyderabad
7. R**esearch Appreciation Award for paper presented on** "Lipopeptides from Bacillus"; 11-12th May 2018 at 4th National Conference on PGPR for Sustainability of Agriculture and Environment, Mizoram University, Aizawl.
8. September 2016, **Distinguished Scientist Award**, GAURD Society, Recognition for eco-friendly research contributions
9. June 2016, **Associate Fellow of TSA** (Telangana Science Academy), TS.
10. Feb 2009-Jan 2010 **PDF From NSERC Discovery Grant**, University of Manitoba, Canada
11. **2006 ICAR Best Thesis Award**, Jawaharlal Nehru Award for Post-Graduate Agriculture Research, Gold medal and cash prize for research on Crop protection
12. 2006 **AMI** (Association of Microbiologists of India), **Young Scientist Award** in Agricultural Microbiology
13. 2003-2004 , Jawaharlal Nehru Memorial Fund Fellowship for Doctoral study
14. 1998, **Qualified SLET**, conducted by APCSC

List of Projects implemented:

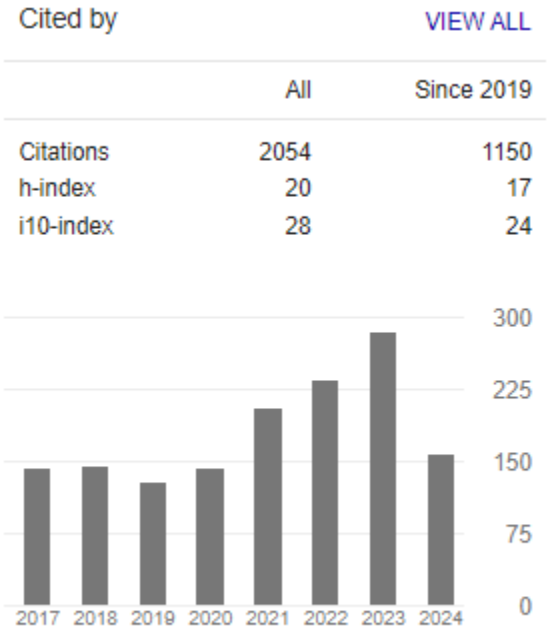
S. No.	Title of the Project	Duration	Funding Agency	Funds received
1.	Microbial metabolites for insect pest management	2024-2026	SBA-Consultacy project	06 lacs
2.	Nanoparticle with keratinase and / or biosurfactants for antimicrobial activity	2019-2020	UGC UPE FAR	0.5 lacs
3.	Microbial surfactants and their use as therapeutics 28.07.2017	2017-2021	DST-PURSE	5.4 lacs
4.	Production of novel lipopeptides from Bacillus spp. as biological control agents 29.05.2017	2017-2020	DST-SERB	24.46 lacs
5.	Production of lipopeptide biofungicide 27.03.2017-30.09.2018	2017- 2018	BIRAC-BIG	46 lacs
6.	Concomitant prod. of biosurfactant. and keratinase for biocontrol 11.01.2017-2018	2017-18	UGC UPE FAR	0.5 lacs

7.	Antifungal metabolites from keratinomytic bacteria 17.07.2014	2014-2015	UGC UPE FAR	0.5 lacs
8.	Production of biosurfactant for bioremediation 11.08.2011-18.06.2015	2011-15	DST-PURSE	7.0 lacs
9.	Quorum sensing: Signalling and communication in biocontrol bacteria and *Aspergillus flavus* 22.03.2013-22.03.2016	2013-2016	UGC-MRP	10.95 lacs

Citations/Publications:
The total number of citations **2054** with h index of **20 (Google scholar)**

- Total publications: 58
- Number of research publications in standard refereed journals: 43
- Proceedings of Conference papers: 02
- Number of Book chapters: 13
- Number of papers presented in conferences/ Symposia/ Seminars etc: 87
- Number of patents filed: 01

Google scholar citations/h index



Publications

1. Bharathi Errampalli , Madamsetty Santha Lakshmi Prasad, Sarada Chunduri, **Bee Hameeda,** Cherukupalli Lavanya, Nimmala Naresh. 2024. Diversity in the population of *Fusarium oxysporum* f. sp. ricini causing castor wilt disease in India. Physiology and Molecular Plant Pathology. 133. 102361
2. Quadriya, H., Rajendran, G., Mir, M.I., Kuchi Surekha and **Bee Hameeda**. Role of *Pseudomonas lini* and *Brevundimonas nasdae* to Enhance Nitrogen Use Efficiency (NUE) and Yield of *Oryza sativa* L. *Int. J. Plant Prod.* **18**, 271–287 (2024). https://doi.org/10.1007/s42106-024-00289-0 **IF-2.1**

3. SAM Ali, PGS Manjusha and **Bee Hameeda**, 2024. Downregulation of biofilm genes (csgD and bcsA) in *Salmonella enterica* by metalloprotease of *B. subtilis* MAH84. Food Bioscience 58 (2024) 103665, https://doi.org/10.1016/j.fbio.2024.103665.**IF-5.2**

4. Mohammad Imran Mir, Nagaraju Mukkamula, B.Kiran Kumar, Raghu K, Javid A. Parray, Ira Khan, Bee Hameeda, Olubukola Oluranti Babalola, Impact of microbial consortium of *Rhizobium tropici* and *Rhizobium mayense* on the growth of *Phaseolus vulgaris* L. South African Journal of Botany 168 (2024) 562-572. Vol 168. Pp 562-572. https://doi.org/10.1016/j.sajb.2024.04.004. **IF 2.7**

5. Venkatanna, B. and Latha, P. C. and Akhila, P. and Kumar, R. M-. and **Hameeda, Bee** (2023) Differential Response of Rhizosphere Microbial Diversity and Activities to System of Rice Intensification and Conventional Cultivation. International Journal of Environment and Climate Change, 13 (11). pp. 1218-1234. ISSN 2581-8627

6. Nageshwar L, Parameshwar J, Rahman PKSM, Banat IM, **Hameeda B.** Anti-oxidative property of xylolipid produced by Lactococcus lactis LNH70 and its potential use as fruit juice preservative. Braz J Microbiol. 2022 Oct 11. doi: 10.1007/s42770-022-00837-8. Epub ahead of print. PMID: 36219343**. IF-2.4**

7. Shireen Adeeb Mujtaba Ali, Riyazali Zafarali Sayyed, Mohammad Imran Mir, **Bee Hameeda**, Y Khan, Mustfa F Alkhanani, Shafiul Haque, Abdel Rahman Mohammad Al Tawaha. Induction of systemic resistance in maize and antibiofilm activity of surfactin from *Bacillus velezensis* MS20 Front. Microbiol., 09 May 2022 | https://doi.org/10.3389/fmicb.2022.879739 **IF-4.1**
8. Mohammad Imran Mir , **Bee Hameeda**, Humera Quadriya, B. Kiran Kumar ,Noshin Ilyas, Ali Tan Kee Zuan4, Hesham Ali El Enshasy, Daniel Joe Dailin, Hazem S. Kassem, Abdul Gafur and R. Z. Sayyed. (2022) Multifarious indigenous diazotrophic rhizobacteria of rice (*Oryza sativa* L.) rhizosphere and their effect on plant growth promotion. Front. Nutr. 8:781764. doi: 10.3389/fnut.2021.781764. **IF: 6.5**
9. Mansani Manasa, Polapally Ravinder, Subramaniam Gopalakrishnan, Vadlamudi Srinivas, RZ Sayyed, Hesham Ali El Enshasy, Maizatulakmal Yahayu, Ali Tan Kee Zuan, Hazem S Kassem, Bee Hameeda. (2021)**.** Co-Inoculation of Bacillus spp. for growth promotion and iron fortification in sorghum. Sustainability. Vol 13 (21) 12091 **IF: 3.25**

10. Mohammad Imran Mir, B Kiran Kumar, Subramaniam Gopalakrishnan, Srinivas Vadlamudi, Bee Hameeda. (2021). Characterization of rhizobia isolated from leguminous plants and their impact on the growth of ICCV 2 variety of chickpea (*Cicer arietinum* L.). Heliyon. E08321. Elsevier **IF: 2.85**

11. JK Goli, B Hameeda. (2021). Production of xylitol and ethanol from acid and enzymatic hydrolysates of *Typha latifolia* by *Candida tropicalis* JFH5 and *Saccharomyces cerevisiae* VS3. Biomass Conversion and Biorefinery, 1-11. **IF: 3.48**

12. Parameshwar Jakinala, Nageshwar Lingampally, Bee Hameeda, RZ Sayyed, Yahya Khan M, Elsayed Ahmed Elsayed, Hesham El Enshasy. 2021. Silver nanoparticles from insect wing extract: Biosynthesis and evaluation for antioxidant and antimicrobial potential. PLos ONE 16(3) DOI:10.1371/journal.pone.0241729 **IF: 3.24**

13. Jyosthna Khanna Goli and Hameeda Bee. 2020. Utility of agro-residues to produce xylanase by *Penicillium citrinum* MTCC 9620 in solid state fermentation. KAVAKA55: 112-118 ; .doi:10.36460/Kavaka/55/2020/112-118

14. Mohammad imran mir, Nagabhushanam, Humera Quadriya, Kiran Kumar, Bee Hameeda. (2020). Morphological, biochemical and intrinsic antibiotic resistance of rhizobia isolated from root and stem nodules of various leguminous plants. Plant Cell Biotechnology and Molecular Biology. 21 (71 &72) 126-138.

15. V Madhavi, YG Prasad, B Hameeda, Variation in photosynthetic pigments of leaves infested with leaf miner (*Liriomyza trifolii*)(burgess) in castor and tomato. Plant Archives 20 (2), 1246-1250
16. Jakinala Parameshwar, Nageshwar Lingampally, Archana Kyama and Bee Hameeda. (2019). Enhancement of atrazine biodegradation by marine isolate *Bacillus velezensis* MHNK1 in presence of surfactin lipopeptide. Ecotoxicology and Environmental Safety, 182, 109372. **IF. 4.5**
17. Archana, K., Reddy, K. S., Parameshwar, J., & Bee, H. (2019). Isolation and characterization of sophorolipid producing yeast from fruit waste for application as antibacterial agent. Environmental Sustainability, 1-9.
18. K Ramavath, B Hameeda, G Reddy. (2019). Enhancement of Plant Growth in Tomato by Inoculation with Plant Growth Promoting Bacillus spp. World Journal of Agricultural Research, 2019, Vol. 7, 69-75
19. E. Bharathis, Santha lakshmi Prasad Praduman Yadav Bee Hameeda (2019) Defense responses to *Fusarium oxysporum* f. sp. ricini infection in castor (*Ricinus communis* L.) cultivars. Indian Journal of Phytopathology. 72 (2) . DOI :10.1007/s42360-018-00105-6
20. N.J.P Subhashini, P. Ashok Kumar, Ch.Bhaskar Reddy , B. Lingaiah, Bee Hameeda . (2018) Synthesis and Antifungal Activity of (±)-4-Methoxy Decanoic Acid and Its Novel Amide Derivatives. Russian Journal of General Chemistry 88 (3) 532-535
21. Reddy, M. R., Reddy, K. S., Chouhan, Y. R., Bee, H., & Reddy, G. (2017). Effective feather degradation and keratinase production by *Bacillus pumilus* GRK for its application as bio-detergent additive. Bioresource technology, 243, 254-263. **IF. 6.5**. CT. 14
22. Rao, S. T. H., Papathoti, N. K., Gundeboina, R., Mohamed, Y. K., Mudhole, G. R., & Bee, H. (2017). Hexavalent chromium reduction from pollutant samples by *Achromobacter xylosoxidans* SHB 204 and its kinetics study. Indian journal of microbiology, 57(3), 292-298. **IF. 1.4.** CT. 06
23. Kumar, P. N., Swapna, T. H., Khan, M. Y., Reddy, G., & Hameeda, B. (2017). Statistical optimization of antifungal iturin A production from Bacillus amyloliquefaciens RHNK22 using agro-industrial wastes. Saudi journal of biological sciences, 24(7), 1722-1740. **IF. 3.1**. CT. 10
24. Kumar, P. N., Swapna, T. H., Khan, M. Y., Daddam, J. R., & Hameeda, B. (2017). Molecular dynamics and protein interaction studies of lipopeptide (Iturin A) on α-amylase of *Spodoptera litura*. Journal of theoretical biology, 415, 41-47. **IF. 2.1**
25. Narendrakumar, P., Nageshwar, L., Parameshwar, J., Khan, M. Y., Rayulu, J., & Hameeda, B. (2016). In silico and in vitro studies of fungicidal nature of lipopeptide (Iturin A) from *Bacillus amyloliquefaciens* RHNK 22 and its plant growth promoting traits. Indian Phytopathology, 69(4s), 569-574.
26. Reddy, K. S., Khan, M. Y., Archana, K., Reddy, M. G., & Hameeda, B. (2016). Utilization of mango kernel oil for the rhamnolipid production by *Pseudomonas aeruginosa* DR1 towards its application as biocontrol agent. Bioresource technology, 221, 291-299. **IF. 6.5**. CT. 20
27. Swapna, T. H., Papathoti, N. K., Khan, M. Y., Reddy, G., & Hameeda, B. (2016). Bioreduction of Cr (VI) by biosurfactant producing marine bacterium Bacillus subtilis SHB 13. **IF. 0.8**. CT. 04 75(7):432-438
28. Kumar, P. N., Swapna, T. H., Reddy, K. S., Archana, K., Nageshwar, L., Nalini, S., ... & Hameeda, B. (2016). Draft genome sequence of *Bacillus amyloliquefaciens* strain RHNK22, isolated from rhizosphere with biosurfactant (surfactin, iturin, and fengycin) and antifungal activity. Genome Announc., 4(1), e01682-15**. IF. 0.8.** CT. 04
29. Adhya, T. K., Kumar, N., Reddy, G., Podile, A. R., Bee, H., & Samantaray, B. (2015). Microbial mobilization of soil phosphorus and sustainable P management in agricultural soils. Curr Sci, 108(7), 1280-1287. **IF. 0.9.** CT. 40
30. NJP. Subhashini, Jyothi Dondra, Mounika Linga, Dayakar Cherupally, China RajuBhimapaka and Bee Hameeda. (2015). Synthesis and evaluation for antimicrobial activity of 2-substituted Benzimidazole and Benzodaizepinone derivatives. International journal of research in pharmacy and chemistry. 5: 400-412

31. Prasad, E., Hameeda, B., Rao, A. B., & Reddy, G. (2014). Biotransformation of curcumin for improved biological activity and antiproliferative activity on acute HT-29 human cell lines. IF. 0.4. CT. 04. Indian Journal of Biotechnology. Vol 13,(July 2014,):pp 324-329
32. Mahalakshmi, S., Kumar, K. K., Hameeda, B., & Reddy, G. (2013). Fermentative production of lactase from *Lactobacillus amylophilus* GV6. IF. 0.5. CT. 05 . JSIR Vol 72: 548-552
33. Venkateshwar, M., Chaitanya, K., Altaf, M., Mahammad, E. J., Bee, H., & Reddy, G. (2010). Influence of micronutrients on yeast growth and β-D-fructofuranosidase production. Indian journal of microbiology, 50(3), 325-331. **IF. 1.3.** CT. 11
34. de Kievit, T., Hameeda, B., Selin, C., & Fernando, W. D. (2011). Using Molecular Techniques to Understand and Enhance Biological Control by Pseudomonas spp. The Americas Journal of Plant Science and Biotechnology, 5(2), 12-19. CT. 02
35. Hameeda, B., Harini, G., Rupela, O. P., Rao, J. K., & Reddy, G. (2010). Biological control of chickpea collar rot by co-inoculation of antagonistic bacteria and compatible rhizobia. Indian journal of microbiology, 50(4), 419-424. **IF. 1.3.** CT. 15
36. Venkateshwar, M., Chaitanya, K., Altaf, M. D., Hameeda, B., & Ghopal Reddy, M. (2009). Evaluation of nitrogenous media components by Plackett–Burman statistical design for β-d-fructofuranosidase production by Saccharomyces sp. strain GVT263. Canadian journal of microbiology, 55(4), 405-409. **IF. 1.24**. CT. 08
37. Hameeda, B., Harini, G., Rupela, O. P., Wani, S. P., & Reddy, G. (2008). Growth promotion of maize by phosphate-solubilizing bacteria isolated from composts and macrofauna. Microbiological research, 163(2), 234-242. **IF. 2.7**. CT. 383
38. Hameeda, B., Harini, G., Rupela, O. P., & Reddy, G. (2007). Effect of composts or vermicomposts on sorghum growth and mycorrhizal colonization. African Journal of Biotechnology, 6(1), 009-012. **IF. 0.5**. CT. 43
39. Hameeda, B., Srijana, M., Rupela, O. P., & Reddy, G. (2007). Effect of bacteria isolated from composts and macrofauna on sorghum growth and mycorrhizal colonization. World Journal of Microbiology and Biotechnology, 23(6), 883-887. **IF. 2.1**. CT. 36
40. Hameeda, B., Reddy, Y. H. K., Rupela, O. P., Kumar, G. N., & Reddy, G. (2006). Effect of carbon substrates on rock phosphate solubilization by bacteria from composts and macrofauna. Current microbiology, 53(4), 298-302. **IF. 1.4.** CT. 89
41. Hameeda, B., Rupela O.P., Wani S.P. and Gopal Reddy. (2006). Indices to assess soil quality and sustainability in systems involving low cost biological inputs and conventional system. International Journal of Soil Science, 1: 198-206. **IF. 0.3**. CT. 06
42. Hameeda, B., Rupela, O. P., Reddy, G., & Satyavani, K. (2006). Application of plant growth-promoting bacteria associated with composts and macrofauna for growth promotion of Pearl millet (*Pennisetum glaucum* L.). Biology and Fertility of Soils, 43(2), 221-227. IF. 3.8. CT. 110
43. Hameeda, B., Rupela O.P. and Gopal Reddy. (2006). Evaluation of bacterial isolates from composts and macrofauna for their biocontrol activity against soil-borne plant pathogenic fungi. Indian Journal of Microbiology, 46: 389-396. **IF. 1.3**. CT. 09

Book Chapters:

1. Desai, M., Quadri, M.Q.K., **Bee Hameeda**., Bathini, P., Kancha, R.K. (2024). Thyroid Cancer. In: Kancha, R.K. (eds) Biomedical Aspects of Solid Cancers. Springer, Singapore. https://doi.org/10.1007/978-981-97-1802-3_20
2. Desai, M., Bathini, P., **Bee Hameeda**., Kancha, R.K. (2024). Adrenocortical Carcinoma. In: Kancha, R.K. (eds) Biomedical Aspects of Solid Cancers. Springer, Singapore. https://doi.org/10.1007/978-981-97-1802-3_19
3. Ashwitha Kadaparthi, **Bee Hameeda**, Suresh Babu Bastipati, shaine Golla . Bactericidal effects: Microbial nanoparticles as next-generation antimicrobials. 2023. In: Maddela. N.R., Rodriguez Diaz, J.M. Branco da Silva Montenegro, M.C. Prasad, R. (eds). Microbial process for synthesizing nanomaterials. Environmental and MicrobialBiotechnology. Pp261-283. Springer Nature, Singapore. https://doi.org/10.1007/978-981-99-2808-8_12
4. Adeeb Mujtaba Ali, Riyaz Z Sayyed, Munagala S Reddy, Hesham El Enshasy, **Bee Hameeda.** (2022) Delving through Quorum Sensing and CRISPRi Strategies for Enhanced Surfactin Production. DOI: 10.1201/9781003260165-4 Microbial surfactants- Volume III (Edited by R.Z. Sayyed)
5. Mohammad Imran Mir,Humera Quadriya, Kiran Kumar, Shireen Adeeb Mujtaba Ali, Mohamed Yahya Khan and **Bee Hameeda** (2022). Biosurfactants of nitrogen fixers and their applications. In. Microbial surfactants- Volume II. Application in Food and Agriculture (Edited by R.Z. Sayyed, Hesham El Enshasy). DOI: 10.1201/9781003247739-14
6. Quadriya H. Mohammed Imran Mir, K. Surekha, S. Gopalkrishnan, M. Yahya Khan, Sushil K. Sharma, Bee Hameeda. (2021) Contribution of Microbe-Mediated Processes in Nitrogen Cycle to Attain Environmental Equilibrium. In: Sharma S.K., Singh U.B., Sahu P.K., Singh H.V., Sharma P.K. (eds) Rhizosphere Microbes. Microorganisms for Sustainability, vol 23. Springer, Singapore. https://doi.org/10.1007/978-981-15-9154-9_13. **Print ISBN**978-981-15-9153-2
7. Bee Hameeda, Khan M.Y., Sayyed R.Z. (2019) Microbial Surfactants and Their Significance in Agriculture. In: Sayyed R., Reddy M., Antonius S. (eds) Plant Growth Promoting Rhizobacteria (PGPR): Prospects for Sustainable Agriculture. Springer, Singapore pp. 205-215. ISBN: 978-981-13-6790-8
8. Archana K , Sathi Reddy K , Ravinder P , Yahya Khan M, **Hameeda Bee**. 2019. Quorum sensing: Communication complexity for resilience of plant microbe interactions. Springer series. In: Implication of Quorum sensing and Biofilm formation in Medicine, Agriculture and Food industry (Editor: Pallaval Veera Bramhachari). Pp. No. 159-175. Springer. Online ISBN
9. Humera Quadriya, S. Adeeb Mujtaba Ali, J. Parameshwar, M. Manasa, M. Yahya Khan, and **Bee Hameeda**. 2018 Microbes Living Together: Exploiting the Art for Making Biosurfactants and Biofilms. . In: Implication of Quorum sensing and Biofilm formation in Medicine, Agriculture and Food industry (Editor: Pallaval Veera Bramhachari). Pp. No. 161-177. ISBN 978-981-13-2428-4. https://doi.org/10.1007/978-981-13-2429-1, Springer. 978-981-32-9408
10. **Bee Hameeda** and Gopal Reddy. Understanding microbial strategies for beneficial plant-microbe interactions. National Journal of Life Sciences. Vol 13 (3) (2016). NAAS Rating: 3.01
11. Yahya K M, Swapna T H, **Hameeda B** and Gopal R. 2015. Bioremediation of heavy metals using biosurfactants, in Advances in Biodegradation and Bioremediation of Industrial waste, edited by Ram Chandra (Taylor and Francis, CRC Press) pp. 373-392.
12. **B. Hameeda**, G. Harini, B. Keerthi Kiran, O.P.Rupela, Gopal Reddy (2009). Role of plant growth promoting microorganisms for sustainable crop production. Pp 63-110 In: Phosphate solubilizing microbes for crop improvement (Ed. M.S. Khan and A. Zaidi, Nova science publishers, Inc. ISBN 978-1-60876-112-8.
13. Rupela, O.P., Gowda, C.L.L., Wani, S.P. and **Hameeda, B**. 2006. Evaluation of crop-production systems based on locally available biological inputs. Chapter-35 In: Biological approaches to sustainable soil systems (N. Uphoff ed.). CRC Press, Boca Raton, Florida, USA. pp. 501-515.

Books Published:

Microbial Surfactants Volume I: Production and Applications. Edited by R.Z. Sayyed, Hesham El Enshasy, Bee Hameeda. 2021. CRC Press. ISBN 9780367521189

Guest Associate Editor: Frontiers in Microbiology (MicroBiotechnology)

"Microbial surfactants: From Sustainability to Circular Bioeconomy"

Proceeding Papers: 2

Biotreatment of phenol by Rhodococcus sp. GM3 in packed bed bioreactor. Mahammed Ebraheem Jabber, Kiran Kandalai, **Bee Hameeda** and Gopal Reddy. 2011. Conference Proc. of International Conference BTBT

Papers/Posters presented in Seminars/Conference/Workshops

1. Anannya A. Pillai, P.G.S. Manjusha and **Bee Hameeda, 2024**.Women Empowerment in Science: Paving Way Towards Sustainable Future. Paper presented at three-day International Conference on "Role of women in inspiring and inclusive growth of society", 21st – 23rd March 2024, organized by Women Empowerment Cell (WEC), Government City College, Hyderabad in collaboration with OWSD-NCI, sponsored by TSCHE, Hyderabad, Telangana, India.

2. P.G.S. Manjusha and Bee Hameeda, **2024**. Power of women and microbes to shape science and society, National Conference on "Transforming Women's World: Practices and Possibilities", March 5th, 2024 at Mah Laqa Bai Chanda Centre for Women's Studies, Osmania University, Hyderabad.
3. **Bee Hameeda**, 2024. Microbial surfactants: Emerging Biomolecules in Plant Protection" at National Conference on Plant Health for Food Security: Threats and Promises"organized by IPS and IISR, Lucknow, Feb 1-3, 2024
4. **Manjusha and Bee Hameeda 2024.** Insights into apiculate yeast *Hanseniaspora* spp. isolated from fermented beverages. National Seminar on The Microbiome Revolution : From fundamental .science to therapeutic innovations, January 24-25th, 2024. Bhavans Vivekananada College of Science, Humanities & Commerce.
5. Manjusha and Bee **Hameeda**, 2024. Isolation and identification of non-saccharomyces yeasts from traditionally fermented beverages, International conference on Innovations in Food Processing Technology and Nutrition. January 22-24, 2024. **Best oral presentation award, student category**
6. **S**antoshini **and Bee Hameeda**, 2024, Plant Growth Promotion by *Stenotrophomonas* spp. oral talk at International conference on Innovations in Food Processing Technology and Nutrition. January 22-24, 2024.
7. Manjusha PGS and **Bee Hameeda** 2023 Oral presentation on Exploring apiculate yeast *Hanseniaspora* spp. for enhanced aromatic profile and nutrient content of traditionally fermented beverages at "International Conference on Environmental Sustainability: New Paradigm and Development at BITS Pilani, **Dubai Campus, UAE** from 26th to 29th November, 2023. **Best oral presentation award, student category**
8. **Bee Hameeda**, 2023. Microbial Surfactants as Emerging Biostimulants, 8th Asian PGPR Society for Sustainable Agriculture, National Conference on Beneficial Microbes for Integrated Plant Health Management. College of Horticulture, Bengaluru, UHS, Bagalkot, India, 19th – 21st September, 2023
9. Nalini, **Bee Hameeda**,2023. 8th Asian PGPR Society for Sustainable Agriculture, National Conference on Beneficial Microbes for Integrated Plant Health Management. College of Horticulture, Bengaluru, UHS, Bagalkot, India, 19th – 21st September, 2023
10. Santoshini, Miheer Mane, Humera S, **Bee Hameeda**, 2023. , 8th Asian PGPR Society for Sustainable Agriculture, National Conference on Beneficial Microbes for Integrated Plant Health Management. College of Horticulture, Bengaluru, UHS, Bagalkot, India, 19th – 21st September, 2023

11. Miheer Mane, Santoshini, Miheer Mane, Humera S, **Bee Hameeda**, 2023. , 8th Asian PGPR Society for Sustainable Agriculture, National Conference on Beneficial Microbes for Integrated Plant Health Management. College of Horticulture, Bengaluru, UHS, Bagalkot, India, 19th – 21st September, 2023
12. P.G.S. Manjusha and **Bee Hameeda**, 2023 on Motivating Younger Minds Towards Science and Innovation, March 2nd – 3rd 2023. National Science Day (NSD) CPMB, OU
13. P.G.S. Manjusha and **Bee Hameeda** 2023. Traditionally fermented non-alcoholic fruit beverage as emerging probiotic drink. Oral Talk presented in three-day International Conference on Innovations in Biology and Medicine (ICIBM'23), 21st – 23rd February 2023, organized by Department of Biotechnology, Telangana University, Nizamabad, Telangana, India.
14. S. Nalini, Humera, Q., M.Y. Khan, **Bee Hameeda**. 2023. Biosurfactant production and plant growth promotion by epiphytic and endophytic bacteria of rice. IPS Platinum Jubilee Conference Plant and Soil Health Management: Issues and Innovations (February 2nd to 4th 2023), University of Mysore, Manasagangotri, Mysuru
15. **Bee Hameeda**, 2023. Microbial surfactants for plant disease management. IPS Platinum Jubilee Conference Plant and Soil Health Management: Issues and Innovations (February 2nd to 4th 2023), University of Mysore, Manasagangotri, Mysuru
16. **Bee Hameeda,** 2022. **Microbial surfactants for sustainable future**. Nov 16th -19th 2022. Margao, Goa at International conference on "Environmental Sustainability and Biotechnology: Opportunities and Challenges.
17. **Bee Hameeda** . 2022. **Microbial surfactants: Emerging molecules for Biological control**, October 31st-Nov, 02nd 2022, at IPS CZS cum national conference on Phytopathology, RARS, Tirupathi
18. PGS Manjusha and **Bee Hameeda**. 2022. Natural fermented banana as probiotic drink with health benefits. P.G.S. Manjusha and Bee Hameeda, 2022. Natural Fermented Banana as Probiotic Drink with Health Benefits. Poster presented in 62nd Annual International Conference of Association of Microbiologists of India (AMI), 21st – 23rd September 2022, organized by University of Mysore, Mysore– 570005, Karnataka.
19. A.S. Niraj Kumar, PGS Manjusha, M. Yahya Khan and **Bee Hameeda** 2022. Biosurfactant and plant growth promotion by *Bacillus* sp. and *Microbacterium* sp. 7th National Asian PGPR Conference for Sustainable & Organic Agriculture, Loyola Academy, Alwal, Secunderabad, Sept 05-06th 2022.
20. Humera Quadriya and **Bee Hameeda**. 2022. Epiphytic and endophytic bacteria for plant growth promotion in rice (*Oryza sativa* L.). 7th National Asian PGPR Conference for Sustainable & Organic Agriculture, Loyola Academy, Alwal, Secunderabad, Sept 05-06th 2022.
21. S. Adeeb Mujtaba Ali and **Bee Hameeda** 2022. Bioactive molecules from Bacillus spp. and their ISR effect on maize. Loyola Academy, Alwal, Secunderabad, Sept 05-06th 2022.
22. Manasa M and Bee Hameeda. 2022. Utilization of composted spent mushroom substrate for plant growth promotion and biofortification in sorghum by Bacillus sp. Loyola Academy, Alwal, Secunderabad, Sept 05-06th 2022.
23. Kavitha, R., Madhuri, A. Bee Hameeda and Gopal Reddy, Induction of Systemic Resistance (ISR) in Tomato (*Lycopersicon esculentum*) to Control Stem rot/collar rot disease by Multifarious PGP Bacillus spp. Loyola Academy, Alwal, Secunderabad, Sept 05-06th 2022.
24. PGS Manjusha and **Bee Hameeda**. 2022. Fermented foods role in maintenance of Healthy Gut microbiome. National seminar on Ascent of Microbiome Research for Nutrition and Health. June 27th 2022.
25. Humera Quadriya, Surekha K and **Bee Hameeda**. 2021. Amendments to organic fertilization to boost nitrogen use efficiency. 3rd International Conference (Hybrid mode) on Food, Agriculture and Innovations (3rd ICFAI), Ranchi, Jharkhand.
26. **Bee Hameeda**, Shivakumar Reddy M, Sam Ali, Parameshwar, J, Yahya Khan, M. and Reddy, M.S. Evaluation of post-biotics produced by plant beneficial microbes for sustainable crop productivity and environment at virtual 6th Asian PGPR National Conference held at Barkatullah University, Bhopal (September 3-4, 2021).
27. Bee Hameeda. Postbiotics for Plant Health organized by IPS, Central Zone, Virtual Symposium. (January 6th-7th 2021)
28. **Bee Hameeda**, Ravinder P, Manasa M, Adeeb S, Yahya khan M. 2020. Microbial surfactants from plant growth promoting microorganisms as potential biocontrol agents. IPS 7th International Conference: Phytopathology in Achieving UN Sustainable Development Goals. Jan 16-20, 2020

29. S. Adeeb Mujtaba Ali, J. Parmesh, Humera Q, Ravinder, Nageshwar, Manasa,**Hameeda Bee**. Polyketides with anti-biofilm properties from Bacillus spp. Oral presentation at International conference on Recent Advances in Biotechnology and Biochemistry on 8th -9th January 2020 at National Institute of Technology Raipur, Chhattisgarh.
30. B**ee Hameeda, Manasa and** S. Adeeb Mujtaba Ali . Biosurfactants: Versatile Biomolecules for Sustainable Agriculture. Indian women scientists' association Hyderabad Branch XIV Triennial Conference Theme: Women Led Science, Technology and Innovation 11-13 December, 2019 Venue: ICMR-National Institute of Nutrition, Tarnaka, Hyderabad, Telangana
31. Ravinder. P., Manasa. M., **Bee Hameeda 2019**. Plant growth promoting novel Streptomyces puniceus RHPR 9 from the rhizosphere of medicinal plant. *Coscinium fenestratum* held at Acharya Nagarjuna University, Guntur, AP. Feb.20-23, 2019
32. Archana.K., Sathi Reddy.K., **Hameeda Bee**., 2018. Utilization of non-conventional substrates for sophorolipid production from *Candida* sp. AH62. and its evaluation as antioxidant agent. 59th Annual conference of Association of Microbiologists of India and International symposium on Host pathogen interaction held at School of Life Sciences, University of Hyderabad from 9-12 Dec, 2018.
33. S. Adeeb Mujtaba Ali, Mohammed Imran Mir, K. Rajender Rao, Yahya Khan, **Hameeda Bee** Production of novel peptides and ketides by *Bacillus species.* 59th Annual Conference of Association of Microbiologists of India & International Symposium on Host-Pathogen Interaction. 9-12 December, 2018, Organised by School of Life Sciences, University of Hyderabad in Association with Department of Microbiology, Osmania University
34. Humera Quadriya , Surekha. K., Subrahmanyam. D., **Bee Hameeda** , Imran Mir, 2018. Efficient nitrogen use in rice growth through organic amendments and biofertilizers. 59th Annual International Conference of Association of Microbiologists of India and international Symposium on Host pathogen Interactions, held at University of Hyderabad, Hyderabad from December 9-12, 2018.
35. Ravinder. P., Manasa. M., **Bee Hameeda** 2018. Production of glycolipid biosurfactant and antibiotic by novel strain *Streptomyces puniceus* RHPR9 isolated from the rhizosphere of *Coscinium fenestratum* held at University of Hyderabad, from December 9-12, 2018
36. Nageshwar L., Paramesh J., Saddam Hussain Md., Yahya khan M., **Bee Hameeda** 2018. Production of biosurfactant by Lactic acid bacteria and its antimicrobial activity. 59th International Symposium on "Host Pathogen Interactions (AMI-2018)" held at University of Hyderabad, Hyderabad from December 09-12, 2018.
37. Parameshwar J, Nageshwar L, **Bee Hameeda.** Biodegradation of atrazine by biosurfactant produced from marine *Bacillus velezensis* MHNK1. Young Researchers Rapid Presentation at Biotechnological Research and. Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of the BRSI, November 22-25. 2018
38. Shiva kumar Reddy M, Ramakrishna Reddy M, Bee Hameeda and Gopal Reddy. Fermented feather hydrolysate for synthesis of iron oxide nanoparticles. Young Researchers Rapid Presentation at Biotechnological Research and. Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of the BRSI, November 22-25. 2018
39. Parameshwar J, Nageshwar L, A. Tharaka ramulu, Sree lakshmi sneha, **Bee Hameeda***. Biodegradation of atrazine using lipopeptide (surfactin) producing Bacillus velezensis MHNK1. International conference on "Integrative biology & applied genetics (ICIBAG-2018)" on 15-18 March in Hyderabad
40. Bee Hameeda and Mohamed Yahya Khan. 2017. Microbial surfactants and their significance in agriculture. 5th Asian PGPR International Conference for Sustainable Agriculture. IPB International Convention Center, Bogor, Indonesia. July 16 to July19, 2017.
41. Bee Hameeda Sathi Reddy. K., Archana. K., M. Y. Khan., Gopal Reddy.M., 2017. Comparison of rhamnolipid production by Pseudomonas aeruginosa strains in submerged fermentation using agricultural byproduct as carbon source. International conference on "Biotechnology & Bioengineering – Trends (ICBT-20017)" held at JNTU, Hyderabad from March 23- 25, 2017.
42. M. Yahya Khan, L. Nageshwar, **Hameeda Bee**. Rhamnolipid production by *Pseudomonas aeruginosa* DR1 and evaluation of its bio-control activity on *Fusarium oxysporum* f. sp. *ricini*. . Fifth National Conference on Biological Control*:*Integrating Recent Advances in Pest and Disease Management. Bangalore February 9 to February 11, 2017.
43. **Bee Hameeda** P. Narendra Kumar, T.H. Swapna, P. Ravinder, J. Parameshwar, Mohamed Yahya Khan., 2017.Insecticidal activity of Lipopeptide (Iturin A) from *Bacillus amyloliquefaciens* RHNK 22 and their effects on physiological processes of *Spodoptera litura* .Frontiers in microbial Biotechnology.,Hyderbad. Febraury 22 to Febraury 23 2017.

44. **Bee Hameeda**, Narendra kumar P., Mohamed Yahya Khan. 2016. Lipopeptides (iturin A) produced by *Bacillus amyloliquefaciens* RHNK22 for plant growth promotion and biological control . 6th International Conference on Plant, Pathogen and People on "Challenges in Plant Pathology to benefit humankind", NASC Complex, New Delhi. February 23 to February 27, 2016.
45. J. Parameshwar, P. Ravinder, Mohamed Yahya Khan, **Hameeda Bee*.** Bacterial surfactants & their role in degradation of Agricultural chemical pollutants. National Conference on Emerging Challenges and Opportunities in Agriculture, Social, Plant, Environment, Co-operative & Technology (ECOASPECT) at IIRR-Prof. Jayashankar Agricultural University, Hyderabad. Sept 10th-11th, 2016. Conducted by Genesis Urban and Rural Development Society (GUARD). (Best Poster Presentation)
46. P. Ravinder, J. Parameshwar, Mohamed Yahya Khan, **Hameeda Bee*.** Bioactivities of Actinomycetes from Selected Medicinal Plants in the Western Ghats-India. National Conference on Emerging Challenges and Opportunities in Agriculture, Social, Plant, Environment, Co-operative & Technology (ECOASPECT) at IIRR-Prof. Jayashankar Agricultural University, Hyderabad. Sept 10th-11th, 2016. Conducted by Genesis Urban and Rural Development Society (GUARD). (Poster Presentation)
47. **Hameeda B**, P. Narendra Kumar, L. Nageshwar, T.H. Swapna. Lipopeptides (iturin A) produced by *Bacillus amyloliquefaciens* RHNK 22 for PGPR, antifungal and pesticidal activity. 6th International Conference on "Plant, Pathogens and People" with the mission "Challenges in Plant Pathology to Benefit Humankind". 23-27th February 2016, New Delhi, India [Oral Presentation].
48. P. Narendra Kumar, T.H. Swapna, Mohamed Yahya Khan, Gopal Reddy, Jayasimha Rayulu, **Bee Hameeda**. Molecular Dynamics and Protein interaction studies of microbial biosurfactant (Iturin A) on Alpha Amylase of *Spodoptera litura.* International conference on Biochemistry, Nutrition & Pharmacy in human welfare: Recent Trends and future challenges (ICBNP-2015) Sep 3rd -5th, 2015.
49. Hayder Abdul Rahman, Mohamed Yahya Khan, **Hameeda Bee.** Comparative study of *Staphylococcal* spp. isolated from soil, urine and wound. International conference on Biochemistry, Nutrition & Pharmacy in human welfare: Recent Trends and future challenges (ICBNP-2015) Sep 3rd -5th, 2015.
50. Mohamed Yahya Khan, Nageshwar.L, Nalini. S, **Hameeda Bee.** Antimicrobial activity of Rhamnolipid produced from *Pseudomonas aeruginosa* DR1**.** International conference on Biochemistry, Nutrition & Pharmacy in human welfare: Recent Trends and future challenges (ICBNP-2015) Sep 3rd -5th, 2015.
51. P. Narendra Kumar, K Gnaneshwar Goud, T.H. Swapna, Mohamed Yahya Khan, Gopal Reddy and Hameeda Bee. Statistical optimization of iturin–A production by *Bacillus amyloliquefacience* RHNK22 using agro-industrial wastes as substrates. National Conference on Recent Trends in Microbial Biotechnology (RTMB) Feb 26th-28th, 2015**.**
52. T.H.Swapna, P. Narendra Kumar , Gopal Reddy, **Hameeda Bee***. Cr (VI) reduction by highly metal ion resistant bacteria *Achromobacter* sp SHB 204 isolated from industrial effluent. National Conference on RecentTrends in Microbial Biotechnology (RTMB) Feb 26th-28th, 2015
53. Sathi Reddy. K, P. Narendra Kumar, K. Archana, Mohmed Yahyakhan, **Hameeda Bee***. Structure, properties and applications of biosurfactant produced by *Pseudomonas aeruginosa* DR1 isolated from rice rhizosphere. National Conference on RecentTrends in Microbial Biotechnology (RTMB) Feb 26th-28th, 2015
54. K. Archana, L. Nageshwar, K. Sathi Reddy, M. Yahya Khan, **Hameeda Bee*** Secondary metabolites from *Pseudomonas* sp. DR1 and their effect towards inhibition of *Aspergillus flavus.* National Conference on RecentTrends in Microbial Biotechnology (RTMB) Feb 26th-28th, 2015
55. L. Nageshwar, S.Nalini, M. Yahya Khan, **Hameeda Bee***Influence of different carbon and nitrogen sources on production of rhamnolipid from Pseudomonas aeruginosa DR1. National Conference on RecentTrends in Microbial Biotechnology (RTMB) Feb 26th-28th, 2015
56. P. Narendra Kumar, K. Sathi reddy, , Mohamed Yahya Khan, Jayasimha Rayulu, **Bee Hameeda**. Paper presentation on national conference on bioinformatics drug discovery and microbial technology. Title Insilco studies of lipopeptide (iturin A) with anti fungal and insecticidal activity. 22-24th Dec 2014.
57. Mohamed Yahya Khan, Nageshwar L, Nalini S, Gopal reddy and **Hameeda Bee**. Isolation and characterization of rhamnolipid producing Pseudomonas from rhizosphere soil. International conference on Emerging trends in biotechnology (ICETB) Nov 6th- 9th, 2014.
58. Narendra Kumar Papathoti, Nageshwar.L, Mohamed Yahya Khan, Gopal Reddy, **Hameeda Bee.** Production and characterization of biosurfactant (Iturin A) from *Bacillus amyloliquefaciens* RHNK 22 and its inhibition effect against plant pathogens. International conference on Emerging trends in biotechnology (ICETB) Nov 6th- 9th , 2014.
59. K. Sathi reddy, P.Narendra Kumar, K. Archana, Mohamed Yahya Khan, **Hameeda Bee.** Comparative studies of plant growth promoting bacteria from rhizosphere, marine and tannery samples. National conference on plant microbe interactions 5th-6th Nov 2014.

60. Archana K, Nageshwar L, Sathi reddy K, Yahya khan M, **Hameeda Bee.** Quorum sensing: Variation in bacterial cell density influencing antagonistic activity against *Aspergillus flavus.* Association of Microbiologists of India 55th Annual conference Nov 6th- 9th. National conference on empowering mankind with microbial technologies (AMI- EMMT - 2014).
61. Prasad, E., Bhaskar Rao, A., **Hameeda, B**. and Gopal Reddy (2013). Biotransformation of curcumin for improved biological activity. International Conference on Advances in Biotechnology and Bioinformatics and X BRSI Conf. November 25th -27th , Pune.
62. **Hameeda B**., Rupela, O.P. and Gopal Reddy (2013). Phosphate solubilizing microorganisms: Harnessing their potential for improving P nutrition to plants. Workshop om Phosphorus cycle: Sustainable management of resources, food security and environment. January 18-19, NASC complex, ICAR, New Delhi.
63. P. Narendra Kumar, T.H. Swapna, K. Sathi Reddy, Mohamed Yahya Khan., **Bee Hameeda**. 2012. Isolation, screening, and characterization of lipopeptides` with antifungal activity from Bacillus species. KIIT University. Bhubaneswar – 751024, Odisha. 53rd Annual Conference of AMI
64. Swapna,T.H,. Narendra Kumar, P.,Yahya Khan, M., **Hameeda, B**. and Gopal Reddy (2012). Biosurfactant production for bioremediation of heavy metal pollution. BRSI Annual Conf. Patiala. Nov. 21-24.
65. Harini, G., **Hameeda, B**., Faridwaliyar., Hari Sudini, Gopal Reddy, Narender (2011). Preharvest management of *Aspergillus flavus* infection and aflatoxin contamination in groundnut by chitinase and glucanase producing Streptomyces sp. CDA19. Annual Meetinf of Indian Phytopathological Society, Univ. of Hyd. Dec.2-4. "Best Poster Award".
66. Kiran, K. Kandalai., Harikrishna, N., **Hameeda B**. and Gopal Reddy (2011). Fermentative production of lactic acid using dairy and sugar industry wastes as substrates. NHBT (BRSI) International Conference, Trivandrum, 21-24 Nov.
67. **Hameeda, B.,** Harini, G. and **Gopal Reddy** (2011). Plant growth promoting bacteria from composts and macrofauna. National Seminar on Application of microbes in management of agriculture and environment, SK Univ. Anantapur, March 4-6.
68. Mahammed E. Jabbar, Chaitanya, K., **Hameeda, B**. and Gopal Reddy (2011). Biotreatment of phenol by *Rhodococcus* sp. GM3 in packed bed bioreactor. International conference on Biotechnology for better tomorrow, Feb.6-9, Aurangabad
69. Mahammed E. Jabbar, Chaitanya, K., Hameeda, B. and Gopal Reddy (2011). *Rhodococcus* sp. GM3 immobilized cells for phenol degradation. International conference on Biotechnology for better tomorrow, Feb.6-9, Aurangabad.
70. G. Harini, **B. Hameeda,** Hari Kishan, F. Waliyar. Biological Control of *Aspergillus flavus and* Aflatoxin *Contamination* in *Arachis hypogaea* by Actinomycete Isolated from Rice Straw Compost "Global Mycotoxin Reduction Strategies: Asia and the Pacific Rim" MycoRED 2010, Penang, Malaysia. 6-10 December.
71. **B. Hameeda,** G. Harini, G. Reddy, F. Waliyar and W.G.D. Fernando. Biological control and plant growth promoting activity of bacteria isolated from composts. Canadian phytopathological society. June 21-23, 2009, Winnipeg, Canada. (Abstract) Canadian journal of plant pathology. 31: 487.
72. Harini, G., **Hameeda, B**., Keerthi Kiran, O.P.Rupela, O.P. and Gopal Reddy (2008). Effect of carbon source on pH drop, P release and survivability of inoculated phosphate solubilizing bacteria in soil under glass house conditions. AMI Annual Conference, Univ. Delhi. New Delhi Nov.17-19.
73. Harini, G., **Hameeda, B**., Keerthi Kiran, B., Rupela, O.P. and Gopal Reddy (2008). Soil respiration, biomass carbon and enqyme patterns of phosphate solubilizing bacteria inoculated sterile soil under controlled conditions. 1st AP Science Congress on 'Emerging Trends in Science & Technology' No. 14-16, OU. Hyderabad
74. Harish Kumar Reddy, Y., **Hameeda, B.** and Gopal Reddy (2008). Single cell fermentation of Pongamia waste to ethanol by Clostridium thermocellum and starting material of various chemicals. National Conference on Advances in Fermentation Technology, Nov. 9-10. Hyderabad (MGNIRSA).
75. Mohammad, E.J., Chaitanya, K., **Hameeda, B**. and Gopal Reddy (2008). Effect of physical parameters on phenol degradation by bacterial isolates. 3rd International Congress in Food Industries & 5th Convention of BRSI, Nov. 6-8, Hyderabad.
76. Harish Kumar Reddy, Y., Srijana, M., **Hameeda, B.** and Gopal Reddy (2008). Anaerobic fermentation of sunflower waste to ethanol by *Clostridium thermocellum*. 3rd International Congress in Food Industries & 5th Convention of BRSI, Nov. 6-8, Hyderabad.
77. Venkateshwar, M., Chaitanya, K., Altaf, Md., **Hameeda, B.** and Gopal Reddy (2008). Statistical selection and optimization of fermentation media components for α-D-Fructofuranosidase production using yeast. 3rd International Congress in Food Industries & 5th Convention of BRSI, Nov. 6-8, Hyderabad.
78. Kiran Kumar, K., Venkateshwar, M., **Hameeda, B.** and Gopal Reddy (2008). Screening of soil isolates

for thermostable glucose isomerase. 3rd International Congress in Food Industries & 5th Convention of BRSI, Nov. 6-8, Hyderabad.

79. **Hameeda, B**., Harini, G., Rupela, O.P., Wani, S.P. and Gopal Reddy (2006). Rock phosphate solubilization and rhizosphere colonization by bacteria isolated from composts and macrofauna for increasing yield of maize. Agribiotech: International Conference on Biotechnology for Sustainable Agriculture and Agro-Industry, Hyderabad, Andhra Pradesh, India. Mar.9-11.
80. **Hameeda, B.**, Harini, G., Rupela, O.P., Wani, S.P. and Gopal Reddy. 2006. Rock phosphate solubilization and rhizosphere colonization by bacteria isolated from composts and macrofauna for increasing yield of maize.
81. Harini, G., **Hameeda, B.**, Rupela, O.P. and Gopal Reddy. 2005. Phosphate solubilizing bacteria enriched vermicompost-improved growth of maize in glasshouse conditions. AMI conference, 8-10 December, Hyderabad, Andhra Pradesh, India.
82. **Hameeda, B.,** Harish Kumar Reddy, Y., Rupela, O.P., G.N. Kumar and Gopal Reddy. 2005. Performance of phosphate solubilizing bacteria (PSB) from composts and macrofauna with different carbon sources. AMI conference, 8-10 December, Hyderabad, Andhra Pradesh, India.
83. **Hameeda, B.,** Rupela, O. P., Saila sree, J., Gopal Reddy, Sriveni, M., Naresh Kumar, G. and Sharma, V. 2003. Solubilization of Rock Phosphate by Plant Growth Promoting Bacteria: Contrasting performance in two different soils. International workshop on Plant Growth Promoting Rhizobacteria 5-12 October, Indian Institute of Spices Research (IISR), Calicut, Kerala, India.
84. **Hameeda, B.**, Rupela, O.P., Gopal Reddy, Srivastava, S., and Saila Sree, J. (2002). Microorganisms for phosphate solubilization in alkaline soils National symposium on mineral phosphate solubilization and wet workshop, 14th-16th November 2002, University of Agricultural sciences, Dharwad, Karnataka, India.
85. Saila sree, J. Rupela, O.P., **Hameeda, B.** and Ventaeshwara Rao. (2001). *Bacillus* species from natural sources for management of *Helicoverpa armigera* (pod borer). AMI conference on "Microbial Biotechnology - Millenniums New Vision" 9th-11th November Gulburga, Karnataka, India. "Best poster award"
86. Saila sree, J. Rupela, O.P., **Hameeda, B.** and Venkateshwar Rao, L. (2001). Bacteria from natural sources for management of *Helicoverpa armigera.* Conference on Biotechnology - the Science and the business, AIBA 28th-30th September at IIT, New Delhi, India.
87. **Hameeda, B.**, Rupela, O.P., Satyavani, K. and Saila Sree, J. (2001). Microorganisms associated with soil fauna, a rich source of agriculturally beneficial bacteria. Conference on Biotechnology - the Science and the business, AIBA. 28th-30th September at IIT, New Delhi, India.

No. of Ph.D.s awarded under supervision: Awarded: 11 ; Submitted: 01; Ongoing:03

1. **Dr. Humera Quadriya, 2024**. Plant growth promotion, biosurfactant production by nitrogen fixing bacteria and field studies to improve nitrogen use efficiency (NUE) in rice cropping system. (PN 21.-3.2024), Registration: 15.03.2017
2. Dr. **L. Nageshwar, 2024.** Production of xylolipid biosurfactant by Lactococcus lactis LNH70 and its application as fruit juice preservative. (PN 27.02.2024). Registration date 18.03.2017
3. **Dr. S. Adeeb Mujtaba Ali 2023.** Bioactive secondary metabolites of Bacillus spp. and preliminary biofim inhibition peptide prediction by DL approach. (PN 08.09.2023) 08.09.2018
4. **Dr. M. Manasa 2023.** Lipopeptide biosurfactant production by *Bacillus mojavensis* RHPR20 from spent mushroom substrate and its applications. (PN 19.07.2023) Registration: 2017
5. **Dr. Jyothsna Khanna Goli 2023.** Valorization of lignocellulosic biomass for microbial production of xylitol and its applications. (PN: 02.02.2023) Registration: 01.2.**2013**
6. **Dr. P. Ravinder. 2022**. Production of secondary metabolites by *Streptomyces puniceus* RHPR9 from *Coscinium fenestratum* rhizosphere for plant growth promotion and biological control. (PN November 2022) Registration: **31.03.2017**
7. **Dr. J. Parameshwar 2022.** Production of surfactin by plant growth promoting *Bacillus velezensis* MHNK1 for atrazine degradation and application of biogenic silver nanoparticles (PN 23rd June 2022). Registration: **24.02.2016**
8. **Dr. V. Madhavi 2022**, Effect of microbial and botanical preparation on sucking insectpests (whitefly and leaf miner) of tomato crop (PN 05th March 2022). Registration: 2017
9. **Dr. SathiReddy K, 2018**, Biosurfactants: Production, characterization and their use as bio-control agents (PN 13th August 2018). Registration: **25.02.2013**

10. **Dr. P. Narendra Kumar, 2018**. Biochemical and molecular characterization of lipopeptides from *Bacillus amyloliquefaciens* RHNK 22 for plant growth promotion and biological control (PN 20th July, 2018**). 21.02.2011**
11. **Dr. T.H. Swapna, 2018.** Bioreduction of hexavalent chromium using bacteria and/or biosurfactant, kinetics & microcosm studies (PN 18th June, 2018) **). 21.02.2011**
12. **Dr. E. Bharathi, 2019.** Variability in pathogen population of castor wilt fungus and its management (Co-Supervisor) (10th March 2020) **25.02.2013**

No. of M.Sc students guided for Project: 50

Membership details of Academic societies

1. Life Member, Society for Environmental Sustainability (SES LM-068) **2022**
2. Life Member, Microbiology Society of India (MS /LM/320) **2021**
3. Life Member, The Biotech Research Society (BRSI) (LM 2521) **2021**
4. Life Member, Indian Women Scientists Association (IWSA) **2019**
5. Life Member, Indian Phytopathological Society (IPS/LM/2019/2120) **2019**
6. Life Member, Indian Science Congress Association (L-33180) **2017**
7. Life Member, GUARD Society **2016**
8. Life Member, Asian PGPR Society, **2012**
9. Life Member, Association of Microbiologists of India (838 – **2006**).

Seminars/ Conferences/ Workshops/Internship programs: Convened/Coordinated/Organized

1. Coordinator: Fourth Internship program at CFRD, July 1st to 6th, 2024
2. Co-convener: National Skill Development Program (NSDP), jointly organized by CSIR CSMCRI, Abode Biotec India Pvt. Ltd., and Dept. Microbiology, Certificate training course on Fermentation Technology, June 13th to 15th 2024
3. **Coordinator:** Third Internship program at CFRD, January 22nd - 27th, 2024
4. **Convenor:** National Seminar on Post Pandemic Scenario: Impending Virus Research, October 11th, 2023
5. **Coordinator:** Second Internship program at CFRD, October 3rd - 7th, 2023
6. Coordinated (**Co-coordinator**) workshop on Research Based Pedagogical tools for UG teachers in life sciences, September 21st -23rd, 2023.
7. **Coordinator** First Internship program at CFRD, August 28th to 2nd September, 2023
8. **Organizer:** Open Day program, Osmania Taksh on "Meet the Microbes" at Department of Microbiology, 25th April, 2023
9. **Convenenor:** Startup Ideation Program. Motivating Younger Minds Towards Science and Innovation, National Science Day – 2022, 2nd to 3rd March, 2023
10. **Organizer**: , Three day National Workshop on Research Based Pedagogical tools in Life Sciences, 6th to 8th February, 2023
11. **Convenor:** 7th National Asian PGPR Conference for Sustainable and Organic Agriculture in association with Loyola Academy, Alwal on PGPR Strategies to Support Next Generation Green Revolution in Food Production, September 5th -6th , 2022
12. **Convenor:** National Seminar on Ascent of Microbiome Research for Nutrition and Health, June 27th, 2022
13. Coordinated (**Co-coordinator**) Five Days Hands on Training, workshop on Cell Culture Techniques, 13th to 17th June , 2022
14. **Organizer**: Open Day program, Osmania Taksh at Department of Microbiology, 24th March 2022
15. International e-conference on 'Advances in Microbial Biotechnology and Bio-therapeutics' from 10-12 September, 2020 (**Organizing secretary).**

16. National seminar on Advances in Microbial Technology from 29-30 May, 2015 **(Organizing Secretary),** 2015
17. National conference on 'Recent Trends in Microbial Biotechnology' from 26-28 February, 2015 on the occasion of completion of 40 years by the department **(Organizing Secretary).**

Invited Talks/Webinars/Guest lecture/Evaluator/Outreach programs : 40

1. Guest Lecture on Antimicrobial Activity – A Technical Session. Advances in material characterization and data processing. July 18th 2024. FDP on AMCDP-2024, Anurag University.
2. Guest speaker on Fermentation Techniques and Instrumentation at Fourth Internship program at CFRD, July 1st to 6th 2024.
3. Guest speaker on Fermented Foods, Benefits, Safety and More, June 13th, 2024, NSDP, Certificate based training program on Fermentation Technology
4. Invited online Talk on **Microbes to Microbiomes: A paradigm shift for sustainable agriculture** at International conference on Innovations in Food Processing Technology and Nutrition. January 22-24, 2024.
5. Guest talk on **" Human Microbiome"** at Bhavans Vivekananda College of Arts, Science and Humanities, December 12th, 2023
6. Invited Speaker on "**Multi-functional microbial surfactants for sustainable agri-food industry** at "International Conference on Environmental Sustainability: New Paradigm and Development at BITS Pilani, **Dubai Campus, UAE** from 26th to 29th November, 2023.
7. Guest Talk online "**Structure of Scientific writing**": 21st November,2023 for M.Sc stuents of Moulana Azad College of Arts, Science & Commerce, Dr. Rafiq Zakaria Campus, Aurangabad, Maharastra
8. **Invited Speaker** on Microbiome Science: At the crossroads of Health and Disease, **November 01st, 2023**, A. Shymala Devi Degree College, One **Day National Seminar on Emerging Infectious Diseases: Causes, Remedies and Global Threats.,** Dept. Life Science, Smt. A. Shyamala Devi Degree College for Women
9. Guest Lecture at MANUU, **October 13th, on Microorganisms and Sustainable Development, UGC, HRDC, MANUU**
10. **Invited Talk** on **Microbial Surfactants as Emerging Biostimulants, September 19th to 21st,** 8th Asian PGPR Society for Sustainable Agriculture, National Conference on Beneficial microbes for integrated plant health management, University of Horticulture Sciences, Bagalkot, Bengaluru
11. Interactive session on Blooms taxonomy at UG Teachers workshop , **September 22, 2023, Cutting edge approaches to Practical Pedagogy, CFRD, OU**
12. Guest Talk on **Happy Microbiome: Nature vsNurture Conundrum, 23.8.2023, UGC HRDC OU**
13. Interactive session on Blooms taxonomy, for **Workshop on Cutting edge approaches to Practical Pedagogy,** PG teachers program, **Dept. Microbiology, UCS, OU 07.02.2023**
14. Oral talk on **Microbial Surfactants for Plant Disease Management**. IPS Platinum Jubilee Conference Plant and Soil Health Management: Issues and Innovations (February 2nd to 4th 2023), University of Mysore, Manasagangotri, Mysuru
15. Guest talk at Mysore University on Healthy Microbiome, February, 3rd 2023.Dept. Microbiology, **University of Mysore, Manasagangotri, Mysuru**
16. **Guest lecture: Signaling molecules in beneficial and pathogenic Interactions**. **ToT (November 26 2022, CPMB, TS-COST)**
17. **Guest lecture: Microbes and sustainable development**. November 25th 2022. ASC, OU
18. **Invited Talk: Microbial surfactants for sustainable future**. Nov16th-19th 2022. Margao, Goa at International conference on "Environmental Sustainability and Biotechnology: Opportunities and Challenges.
19. **Lead Talk: Microbial surfactants: Emerging molecules for Biological control**, October 31st-Nov, 02nd 2022, at IPS CZS cum national conference on Phytopathology
20. **Guest lecture: Revist to Traditional Fermented Foods**: Guest Lecture at ASC, OU, September 27th 2022

21. **Invited Talk: The Road to Entrepreneurship – at Osmania University**, A one-day faculty training workshop on Lab to Product: Enabling Universities to Technology Transfer Hubs, April 07th, 2022.
22. **Guest Talk on Microbiome an Overview on** Frontiers in Food and Agricultural Microbiology, **at National Seminar** organized by Department of Microbiology and MicroAura club -a local chapter of Microbiologists Society, India on 15 March 2022.
23. 29th National Children Science Congress (NCSC-2021), Evaluator, virtually hosted by GUJCOST (Gujarat) during 15-18th February, 2022. For assessment of the findings of the study by Child Scientist on "Science for Sustainable Living"
24. **Guest Lecture** "**Milestones in Microbiome Research",** January 2022.
25. **Invited Lead Talk** at Virtual PGPR Conference of 1st ASIAN PGPR, Indonesia Chapter, Internation E-Conferene, in Sustainable Agriculture and Ecotourism. August 28th- 30th, 2021, Udayana University, Bali. Presented work on **Probiotics and Postbiotics: A new approach to understand and manage plant microbe interactions** (PMI)
26. Webinar on **Engineering Microbiome for Human gut and plant root health,** August 14. Popular Science Webinar Talk, Dept. Bio-Sciences and Zoology, Union Christian College Centenary Celebrations, Aluva
27. Webinar on **Microbiome Engineering: Human and Plant Health** (29.04.2021) , DeptMicrobiology TSWRDC (W), Mahendrahills, Hyderabad, TS
28. Webinar on **Microbiome Overview: Human and Plant Health** organized by IWSA (26.08.2020)
29. Webinar on **Molecular Biology and Evolution of Novel Corona Virus (COVID 19)** ;(25th July 2020) at DBF Dayanand College of Arts and Science, Solapur, MH. India
30. One day **National Webinar on Microbiome Era:** at Telangana Social Welfare Residential Degree College for Women Nagarkurnool (16th July 2020)
31. Webinar: **Microbiome Era:Prospects and Challenges** organized by PG and Res Dept. Zoology, Jamal Mohammed College, Tiruchirappalli (9th April 2020).
32. Evaluator at National Children Science Congress, 2019 December, 24-26, Kerala
33. Guest lecture at MNR Degree and PG College, Kukatpally on Microbiome Era 19.11.2019
34. Plant Microbiome vs Animal Microbiome, Little flower Degree college, uppal, 09.09.2019
35. Evaluator at Jignasa program, 02.02.2019, Degree College level evaluation, Hyderabad, TS
36. Guest Lecture at Avanti Degree and PG College on **"Glimpse of microbiome": Friend/Foe and Recent advances in Microbiology, 09.04.2018**
37. **Guest Lecture** at Kasturba Gandhi Degree College on Recent advances in Microbiology, 18.01.2018
38. **Guest Lecture** at Govt. Degree College, Jadcherla on Advances in Microbial Biotechnology, 07.02.2017
39. **Guest Lecture** at Jahnavi Degree and PG College on The weird, beautiful and dominant world of microbes, 02.11.2016
40. **Guest Lecture at** St. Pious X Degree and PG College on Microbial Biotechnology: New Bioactive molecules from bacteria 11.09.2014

Patent granted: 491852, 29.12.2023. Title of patent: "Antifungal lipopeptides produced by plant growth promoting rhizobacterial strain *Bacillus amyloliquefaciens* RHNK22 (MTCC 25230) and their application as biocontrol agents"