MADHU KAMLE, PH. D.

Address	Associate Professor (Molecular Biology & Biotechnology) Department of Biochemistry, University of Lucknow, Lucknow-226007, India	**Cell:** +91-7638912667 **Email Id:** madhu.kamle18@gmail.com, mka@nerist.ac.in

In Brief Research Exp.: 16 Years	
Research Grant: 03 **(DBT-NER-2, GBPH-1) @ Rs. 4.0 Cr [2-As PI, 1-As Co PI]**	
Research papers/ Review published: 60	**Books edited: 04, 1 in progress; Book Chapters-26**
Total Impact Factors: 200	**Citation: 4569 ; H-index-32, i10-index: 46**
Research Area: Plant Biotechnology, Molecular Biology, Nanotechnology; Disease diagnosis	
https://scholar.google.com/citations?user=ijURCWUAAAAJ&hl=en	

EDUCATIONAL DETAILS

Degree	Subject	University	Year
Ph.D.	Biochemistry	Bundelkhand University, Jhansi & ICAR-CISH, Lucknow, India	2012 (Awarded)
M.Sc.	Biotechnology	D.D.U.G. University, Gorakhpur	2004
B.Sc.	Botany, Zoology	D.D.U.G University, Gorakhpur	2002
Certificate Course	IPR (DL-101)	WIPO, Geneva	2010
UGC-NET-LS	Environmental Sciences	UGC, New Delhi	2007
GATE	Life Sciences	IITK-MHRD, New Delhi	2005

Position Held	Institute/University	To	From
Associate Professor	Department of Biochemistry, University of Lucknow	05.11.2024	Running
Assistant Professor (Sr. Scale)	Department of Forestry, NERIST (MoE-Govt. of India) A.P.	26.10.2016	04.11.2024
Int. Research Prof. /Assistant Professor	School of Biotechnology, Yeungnam University, Republic of Korea	01.09.2016	22.10. 2016
PBC Post Doc Fellow	Ben-Gurion University of the Negev, Beer Sheva, Israel.	10.12.2013	30.08.2016
Research Associate/ Post-Doc Fellow	ICAR-National Research Center on Plant Biotechnology, Pusa campus, New Delhi	05.09.2012	04.09.2013
Senior Research Fellow	Division of Crop Protection, ICAR- CISH, Rehmankhera, Lucknow, India	26.06.2009	17.07.2012
Research Assistant	Division of CIB, ICAR- CISH, Rehmankhera, Lucknow, India	01.09.2007	25.06.2009

HONORS AND AWARDS		
Award	**Agency/ Institute**	**Year**
***PBC Outstanding* Postdoctoral Fellowship**	Council of Higher Education, Govt. of Israel	2014 to 2016
Late Smt. Rahibai Ramteke **Young Women Scientist Award** in Agricultural Biotechnology	Society for Bioinformatics and Biological Sciences, Prayagraj	2019
Post Doc Fellowship	BIDR, Ben Gurion University of the Negev, Israel	2013 to 2014
Best Poster Paper Award	Global conference in Augmenting production and utilization of mango: Biotic and abiotic stresses, Lucknow.	21-24 June 2011
Young Scientist Award (**Nanoscience**)	Society for Plant Research	2024
Young Scientist Award (**Plant Biotechnology**)	SARSD, New Delhi	2024

MEMBERSHIPS IN PROFESSIONAL BODIES

1. Society for Plant Research (Life member)
2. Indian Mycological Society (Life member)
3. Nano molecular Society (Life member)
4. Member of the American Society of Microbiology (ASM)
5. Life Member Asian Society of PGPR
6. Member American Society for Plant Biology (ASPB)
7. Associate Editor Achieves of Phytopathology and Plant Protection Journal (Taylor& Francis).
8. Life Member Alumni Association of Department of Biochemistry, University of Lucknow, Lucknow-226007

Research Grants Sanctioned -03; Completed -02, Ongoing-01

Sl.	*Project Title*	Amount (Lakh)	Funding Agency	Role (PI/Co-PI)
1.	*Use of non-toxic nanoformulations for prolonging shelf life and reduction of post-harvest loss of Khasi mandarin orange (Citrus reticulata) of North East India* [NERIST, NIFTEM, IITG, CIT, CAU, MU]	~292.00 (Total)	DBT, Govt. of India *Ongoing*	PI & Coordinator
2.	*Micropropagation of Litsea cubeba (Lour.) Pers: an indigenous plant of North East India for genetic conservation*	~8.0	GBPHNIESD *Completed*	PI
3.	*Screening of Phytochemical and Bioactive compounds against human pathogenic bacteria of some selected indigenous medicinal plants of Arunachal Pradesh, India* [NERIST & CDRI]	~82.24 (Total)	DBT, Govt. of India *Completed*	Co-PI & Co-coordinator

Student Guided (Ph. D.- 05 (Awarded-02; Final stage-03); M.Sc. 05; M. Tech 01)

BOOKS PUBLISHED 04 (Springer-02, Tylor & Francis-02)

1. Mycotoxins in Food and Feed Detection and Management Strategies. *(Eds.)* Pradeep Kumar, **Madhu Kamle**, Dipendra Kumar Mahato (**2023**) ISBN 9781032113920 (***Taylor's & Francis group***)

2. Plant Pathogens: Detection and Management for Sustainable Agriculture (**2019**). Edited by P. Kumar, A. K Tiwari, **Madhu Kamle**, Zafar Abbas and Priyanka Singh. Publisher: AAP, USA. **ISBN: 9781771887885**. E-Book ISBN: 9780429057212.
3. Microbial Genomics in Sustainable Agroecosystems Volume 2 (**2019**). Edited by: Vijay Tripathi, Pradeep Kumar, Pooja Tripathi, Amit Kishor, **Madhu Kamle**. Publisher-Springer-Nature, Switzerland https://doi.org/10.1007/978-981-32-9860-6 Online ISBN 978-981-32-9860.
4. Current Trends in Plant Disease Diagnostics and Management Practices (**2016**)**.** P. Kumar, V K Gupta, A K Tiwari and **Madhu Kamle**. (*Eds.*) Publisher: ***Springer-Nature***, Switzerland https://link.springer.com/book/10.1007%2F978-3-319-27312-9.

RESEARCH/ REVIEW PUBLICATIONS (60)

1. Prajapati P, Porwal C, Garg M, Singh N, Sadhu SD, Chopra R, Rao ES, Agarwal A, Saeed M, Rab SO, Mahato DK, Kumar P, **Kamle M**, Tripathi AD. (2025) Transforming lemon Peel into a sustainable reservoir of bioactives: A green osmotic dehydration strategy. Food Chemistry.10(25):102172. **(IF-6.5)**
2. Pawle P, Pandey S, Kumar A, Agarwal A, Tripathi AD, Saeed M, Rab SO, Mahato DK, Kumar P, **Kamle M**. (2025) Valorization of raw papaya (*Carica papaya*) and citrus peels for development of antimicrobial and biodegradable edible film. Food Chem X. doi: 10.1016/j.fochx.2024.102129. **(IF-6.5)**
3. Pandey S, Gupta A, Mahato DK, Paul V, Tripathi AD, Rasane P, Kumar P, **Kamle M**, Haque S (2025) Lutein and Zeaxanthin: Source, Extraction, Stability, Bioactivity, and Functional Food Applications. Curr Pharm Biotechnol. doi: 10.2174/0113892010334209241206113640. **(IF-2.2)**
4. **Kamle M**, Pandhi S, Mishra S, Barua S, Kurian A, Mahato DK, Rasane P, Büsselberg D, Kumar P**,** Calina D, Sharifi-Rad J. (2024) Camptothecin and its derivatives: Advancements, mechanisms and clinical potential in cancer therapy. ***Med Oncol.*** 9;41(11):263. doi: 10.1007/s12032-024-02527-x **(IF-2.8)**
5. Mahato DK, **Kamle M***, Pandey S, Kalsi R, Agarwal S, Paul V, Gupta A, Islam D, Khare S, Singh A, Kumar P**,** Rab SO, Saeed M (2024) Foodomics: A Sustainable Approach for the Specific Nutrition and Diets for Human Health. ***Food Chemistry X.*** 24, 101872 **(IF-6.5)**
6. Gogoi P, Kamle M, Kumar P (2024) Antagonistic and Plant Growth Promotion Activities of Endophytic Bacteria Isolated from Deep Water Rice (Oryza Sativa L. Cv. Ronga Bao) of Assam. ***International Journal of Plant and Environment***. 10(02):190-201.
7. Sharma C, **Kamle M***, Kumar P (2024) Microbial-derived carotenoids and Their Health Benefits. ***Microbiology Research.*** 15(3): 1670-1689. **(IF-2.1)**
8. Singh PK, Chopra R, Garg M, Chauhan K, Singh N, Homroy S, Agarwal A, Mishra A, **Kamle M** et al. (2024) Shelf-life enhancement of Structured Lipids rich in omega-3 fatty acids using Rosemary Extract: A Sustainable Approach. *ACS Omega*. 9 (29): 31359-31372. **(IF 3.7).**
9. **Kamle M**, Mahato DK, Sharma B, Gupta A, Shah AK, Mahmud MMC, Agrawal S, Singh J, Rasane P, Shukla AC, Kumar P (2024) Nutraceutical potential, phytochemistry of hemp seed (*Cannabis sativa*

L.) and its application in food and feed: A review. Food Chemistry Advances. **4.** 100671. https://doi.org/10.1016/j.focha.2024.100671 **(SCOPUS)**

10. Bui S, **Kamle M***, Kumar P (2024) Tissue Culture Based Conservation Strategies for *Litsea cubeba* (Lours.) Pers: A Medicinally Importance Plant. Int J Pharm Res Allied Sci. 2024;**13**(1):47-55. **(IF 0.41).**

11. Sarkar S, **Kamle M,** Bharti A, Kumar P (2023) Antibiotic-Resistant Bacteria Risks and Challenges for Human Health and Environment: An Overview. *World J Environ Biosci.*12(2):26-34. **(SCOPUS)**

12. Gogoi P, **Kamle M*,** Kumar P. (2023) Endophytic Bacteria Associated with Rice: Role in Biotic and Abiotic Stress Protection and Plant Growth Promotions. World J Environ Biosci. 12(1):1-9. **(SCOPUS)**

13. Kumar P, Gupta A, Mahato DK, Pandhi S, Pandey AK, Kargwal R, Mishra S, Suhag R, Sharma N, Saurabh V, Paul V, Kumar M, Selvakumar R, Gamlath S, **Kamle M** (2022) Aflatoxins in Cereals and Cereal-Based Products: Occurrence, Toxicity, Impact on Human Health, and Their Detoxification and Management Strategies. Toxins (Basel). 2022 Oct 6;14(10):687. doi: 10.3390/toxins14100687. **(IF 4.2).**

14. Kumar P, Mahato DK, Gupta A, Pandey S, Paul V, Saurabh V, Pandey AK, Selvakumar R, Barua S, Kapri M, Kumar M, Kaur C, Tripathi AD, Gamlath S**,** **Kamle M**, Varzakas T, Agriopoulou S. (2022) Nivalenol Mycotoxin Concerns in Foods: An Overview on Occurrence, Impact on Human and Animal Health and Its Detection and Management Strategies. Toxins (Basel). 2022 Jul 31;14(8):527. doi: 10.3390/toxins14080527. **(IF 4.2).**

15. Bora H, **Kamle M**, Hassan H, Al-Emam A, Chopra S, Kirtipal N, Bharadwaj S, Kumar P**.** (2022) Exploration of Potent Antiviral Phytomedicines from Lauraceae Family Plants against SARS-CoV-2 Main Protease. Viruses. 14(12):2783. **(IF 4.7).**

16. Bora H, **Kamle M**, Chopra S, Kumar P (2022). Evaluation of Phytochemical Components, Antioxidant, and Antibacterial Activities of *Coptis teeta* Walls. Int J Pharm Res Allied Sci. 11(4):140-50. **(IF 0.41).**

17. Kumar P, Mahato DK, Gupta A, Pandhi S, Mishra S, Barua S, Tyagi V, Kumar A, Kumar M and **Kamle M*.** (**2022**), Use of essential oils and phytochemicals against the mycotoxins producing fungi for shelf-life enhancement and food preservation. *Int J Food Sci Technol*. 57: 2171-2184. https://doi.org/10.1111/ijfs.15563 **(IF 3.612).**

18. **Kamle M,** Mahato DK, Gupta A, Pandhi S, Sharma B, Dhawan K, Vasundhara, Mishra S, Kumar M, Tripathi AD, Rasane P, Selvakumar R, Kumar A, Gamlath S, Kumar P (2022). Deoxynivalenol: An Overview on Occurrence, Chemistry, Biosynthesis, Health Effects and Its Detection, Management,

and Control Strategies in Food and Feed. *Microbiology Research.* 2022; 13(2):292-314. https://doi.org/10.3390/microbiolres13020023 **(IF 1.5).**

19. Mahato DK, Kargwal R, **Kamle M**, Sharma B, Pandhi S, Mishra S, Gupta A, Mahmud MMC, Gupta MK, Singha LB, Kumar P. (2022) Ethnopharmacological properties and Nutraceutical potential of *Moringa oleifera*. Phytomedicine Plus. 2(1)100168 https://doi.org/10.1016/j.phyplu.2021.100168.

20. Kamle M, Mahato DK, Gupta A, Pandhi S, Sharma N, Sharma B, Mishra S, Arora S, Selvakumar R, Saurabh V, Dhakane-Lad J, Kumar M, Barua S, Kumar A, Gamlath S**,** Kumar P*. (2022) Citrinin mycotoxin contamination in food and feed: impact on agriculture, human health, and detection and management strategies. Toxins. 2022; 14(2):85. **(IF 4.2)**

21. Mahato DK, Pandhi S, **Kamle M**, Gupta A, Sharma B, Panda BK, Srivastava S, Kumar M, Selvakumar R, Pandey AK, Suthar P, Arora S, Kumar A, Gamlath S, Bharti A**,** Kumar P**.** (2022) Trichothecenes in food and feed: Occurrence, impact on human health and their detection and management strategies. Toxicon. 208:62-77. doi: 10.1016/j.toxicon.2022.01.011. **(IF 3.035)**

22. Kumar S, Singh N, Devi LS, Kumar S, **Kamle M**, Kumar P, Mukherjee A (2022) Neem oil and its nanoemulsion in sustainable food preservation and packaging: Current status and future prospects. Journal of Agriculture and Food Research. 7: 100254. **(IF 4.0)**

23. Kumar P, Pandhi S, Mahato DK, **Kamle M,** Mishra A (2021) Bacillus-based nano-bioformulations for phytopathogens and insect–pest management. *Egypt J Biol Pest Control* 31, 128. **(IF 2.055)**

24. Kumar P, Mahato DK**, Kamle M**, Borah R, Sharma B, Pandhi S, Tripathi V, Yadav HS, Devi S, Patil U, Xiao J, Mishra AK (2021) Pharmacological Properties, Therapeutic Potential and Legal Status of *Cannabis sativa L*.: An Overview. Phytotherapy Research.1–31. **(IF 7.2).**

25. Kumar P***, Kamle M**, Borah R, Mahato DK, Sharma B (2021) *Bacillus thuringiensis* as microbial biopesticide: uses and application for sustainable agriculture. *Egypt J Biol Pest Control* **31,** 95. https://doi.org/10.1186/s41938-021-00440-3 **(IF 2.055)**

26. Mahato DK, **Kamle M**, Sharma B, Pandhi S, Devi S, Dhawan K, Selvakumar R, Mishra D, Kumar A, Arora S, Singh NA, Kumar P. (2021) Patulin in food: A mycotoxin concern for human health and its management strategies. Toxicon. 29;198:12-23. doi: 10.1016/j.toxicon.2021.04.027. **(IF 3.035)**

27. Salehi B, Quispe C, Butnariu M, Sarac I, Marmouzi I, **Kamle M**, Tripathi V, Kumar P, Bouyahya A, Capanoglu E, Ceylan CD, Singh L, Bhatt ID, Sawicka B, Krochmal-Marczak B, Skiba D, Jemli ME, Jemli YE, Coy-Barrera E, Sharifi-Rad J, Kamiloglu S, Cádiz-Gurrea M, Segura-Carretero A, Kumar M, Martorell M (2021) Phytotherapy and food applications from Brassica genus. Phytotherapy Research.1–21. **(IF 7.2).**

28. Mahato DK, Devi S, Pandhi S, Sharma B, Maurya KK, Mishra S, Dhawan K, Selvakumar R, **Kamle M,** Mishra AK, Kumar P (2021) Occurrence, Impact on Agriculture, Human Health, and Management Strategies of Zearalenone in Food and Feed: A Review. *Toxins*. 13(2):92. **(IF 4.2).**

29. Kumar P, **M Kamle**, DK Mahato, H Bora, B Sharma, P Rasane, VK Bajpai (2020) *Tinospora cordifolia* (Giloy): Phytochemistry, Ethnopharmacology, Clinical Application and Conservation Strategies. Current Pharmaceutical Biotechnology. 21 (12)1165-1175. **(IF 2.837)**
30. Bora H, **Kamle M**, Mahato DK, Tiwari P, Kumar, P (2020) Citrus Essential Oils (CEOs) and Their Applications in Food: An Overview. Plants 2020, 9, 357**. (IF 4.658).**
31. Satish L, **Kamle M**, Keren G, Patil CD, Yehezkel G, Barak Z, Kagan-Zur V, Kushmaro A, Sitrit Y (2020) Agrobacterium tumefaciens-Mediated Genetic Transformation of the Ect-endomycorrhizal Fungus *Terfezia boudieri*. Genes (Basel), 11, 1293. https://doi.org/10.3390/genes11111293 **(IF 3.5).**
32. **Kamle M.,** Mahato D.K., Devi S., Soni R., Tripathi V, Mishra AK, P. Kumar (2020) Nanotechnological interventions for plant health improvement and sustainable agriculture**.** ***3 Biotech*** 10, 168. **(IF-2.8) .**
33. Mahato DK , Lee KE, **Kamle M**, Devi S, Dewangan KN, Kumar P and Kang S G (2019). Aflatoxins in food and feed: An overview on prevalence, detection and control strategies. Frontiers in Microbiology.10:2266 doi: 10.3389/fmicb.2019.02266. **(IF-5.2)**
34. Das A, **Kamle M**, Bharti A, and Kumar P (2019). Nanotechnology and its applications in environmental remediation: an overview. *Vegetos*, 32:1-11. DOI: 10.1007/s42535-019-00040-5. **(SCOPUS)**
35. **Kamle M,** Mahato D K, Devi S, Lee K E, Kang S G and Kumar P (2019). Fumonisins: Impact on Agriculture, Food, and Human Health and their Management Strategies. *Toxins*, *11*(6):328. **(IF 4.2).**
36. **Kamle M,** Mahato D K, Lee K E, Bajpai V K, Gajurel PR, Gu K S, and Kumar P, (2019). Ethnopharmacological Properties and Medicinal Uses of *Litsea cubeba*. *Plants*, *8(6):150.* (**IF-4.5**).
37. Salehi B., Sharifi-Rad R, Shaopov F, Namiesnik J, Roointan A., **M. Kamle**, P Kumar, N. Martin, JS Rad (2019) Beneficial Effects and Potential Risks of Tomatoes Consumption For Human Health: An Overview. Nutrition. *62:201-208.* (**IF-4.008**).
38. V. K. Bajpai, **M. Kamle**, S. Shukla, D.K. Mahato, P. Chandra, S.K. Hwang, P. Kumar *, Huh YS, Han YK (**2018**) Prospects of Using Nanotechnology for Food Preservation, Safety, and Security. ***Journal of Food Drug Analysis*** 26(4): 1201-1214. (**IF-3.6**).
39. Mittal P, Sharma S, **Kamle M**, Bharti A, Tripathi V (2018). Identification and characterization of Melanoidin Degrading Alkalohalophile Bacteria from Tainted Site of Molasses Distillery Effluents. **Biotech Today**. Vol.8(2) 51-56. DOI: 10.595/2322-0996.2018.00018.2**(SCOPUS)**
40. **M. Kamle**, E. Bar, D. Lewinsohn, E. Shavit, N. Roth-Bejerano, V. Kagan-Zur, O. Guy, Eli Zaadi, E. Lewinsohn and Y. Sitrit (**2017**). Characterization of Morphology, Volatile Profiles and Molecular Markers in Edible Desert Truffles from the Negev Desert. ***J. Agric. Food Chem***., 65 (14): 2977–2983. (**IF- 5.895**).

41. **M. Kamle** and Kwang-Hyun Baek (**2017**). Somatic Embryogenesis in Guava (*Psidium guajava* L.): Current Status and Future Perspectives. 7: 203. Doi: 10.1007/s13205-017-0844-0. **3Biotech (IF-2.8)**
42. P. Kumar, DK Mahato, **M. Kamle***, TK Mohanta and Kang S. Gu (**2017**) Aflatoxins: a global concern for food safety, human health and their management. ***Frontiers in Microbiology***. 7:2170. (**IF 5.2**)
43. **M. Kamle**, P. Kumar, J. K. Patra and V. K. Bajpai (**2017**). Current perspectives in Genetically Modified Food Detection methods. *3 Biotech.* 7:219. doi:10.1007/s13205-017-0809-3 **(IF-2.8).**
44. **M. Kamle***, A. Bajpai, S. Kalim, R. Chandra (**2016**). Recurrent Somatic Embryogenesis and Plantlet Regeneration in *Psidium guajava* L. **Brazilian Archives of Biology and Technology,** 59, e16150170. https://dx.doi.org/10.1590/1678-4324-2016150170. **(IF- 1.0**)
45. P. Kumar, **M. Kamle**, A.K. Misra, A. O'Donovan, M. Pagano, D.R. Modi (**2016**). Identification and characterization of *Fusarium mangiferae* as pathogen of mango malformation in India. **Brazilian Archives of Biology and Technology**, 59, e16160280. https://dx.doi.org/10.1590/1678-4324-2016160280. **(IF- 1.0**).
46. **M. Kamle*** and P. Kumar (2015). Anthracnose: A Post-Harvest Disease of Mango. *Agrica*. 4(2):61-67. http://dx.doi.org/10.5958/2394-448X.2015.00012.7
47. **M. Kamle*,** P. Kumar, A. Bajpai, S. Kalim, and R. Chandra (2013). Assessment of genetic fidelity of *in vitro* regenerated guava (*Psidium guajava* L.) plants using DNA based markers. **New Zealand J. Crop Hort. Sci.** 42(1)1-9. (**IF-0.50**) https://doi.org/10.1080/01140671.2013.814574
48. **M. Kamle**, P Kumar, VK Gupta, AK Tiwari, AK Misra, BK Pandey (2013) Identification and phylogenetic correlation among *Colletotrichum gloeosporioides* pathogen of anthracnose for mango. **Biocatalysis and Agricultural Biotechnology**. 2(3):285–287. **(IF- 4.0**).
49. **M. Kamle*,** B.K. Pandey, P. Kumar and Muthukumar M (2013). A species-specific PCR based assay for rapid detection of mango anthracnose pathogen *Colletotrichum gloeosporioides* Penz. and Sacc. ***J. Plant Path. Microb.*** 4:1-6. DOI: 10.4172/2157-7471.1000184
50. P. Kumar, **M. Kamle**, V. K. Gupta, A. K. Misra and B. K. Pandey (2013). Host pathogen interaction study in malformed affected tissues of *Mangifera indica* L**.** ***Am. J Agr. Biol. Sci***. 8(3)199-203. https://thescipub.com/abstract/10.3844/ajabssp.2013.199.20
51. P. Kumar, **M. Kamle,** I. Iqbal, N. N. Tiwari, P. Saxena, A. Tiwari (2012). Role of Molecular markers in Plant Biotechnology. Agrica. 1(2): 8-22.
52. **M. Kamle*,** S. Kalim, A. Bajpai, R. Chandra and R. Kumar (2012). *In vitro* selection against Fusarium wilts of guava cv. Allahabad Safeda. ***Biotechnology*** 11 (3)163-171.
53. P. Kumar, **M. Kamle** and J. Singh (2011). Biochemical characterization of Santalum album (Chandan) leaf peroxidase. ***Physiology & Molecular Biology of Plants.*** 17(2):153–159. **(IF-3.5).**
54. **Kamle M*,** Bajpai A, Chandra R, Kalim S, Kumar R (2011). Somatic embryogenesis for crop improvement. ***GERF Bull. Biosci.*** 2:54-59.

55. Chandra R, **Kamle M**, Bajpai A, Muthukumar M, Kalim S (2010). *In vitro* selection: A candidate approach for disease resistance breeding in fruit crops. ***Asian J. Plant. Sci.*** 9(8): 437-446.
56. M. Mishra, Y. Shree, N. Shukla, **M. Kamle**, R. Chandra and A. Srivastava (2010) Micropropagation of *Mangifera indica* L. cv. kurakkan through somatic embryogenesis. ***Ind. J. Gen Plant Breed.*** 70: (1) 85-90. **(IF1.339)**
57. Pandey, A.J. Mathew, **M. Kamle**, R. K. Mishra, P. Kumar (2012). Efficacy of fungicides for control of white mold (*Sclerotinia sclerotiorum* Lib.) de Bary in lima bean. ***J Hort. Sci.*** 7 (1) 114-117. DOI: https://doi.org/10.24154/jhs.v7i1.408
58. Pandey, **M. Kamle** et al (2010). Genetically Modified Food: Its uses, future prospects and safety assessment. ***Biotechnology***. 9(8): 448-458. DOI: 10.3923/biotech.2010.444.458
59. Pandey, **M. Kamle**, U.K. Chauhan and B.K. Pandey (2009). Evaluation of plant extracts against *Colletotrichum gloeosporioides* an incited of mango anthracnose disease. ***Plant Archives.*** 9(2) 947-949.
60. Muthukumar M., M. Rajbeeth, R. Pati, K. Sujatha, N. Srivastava and **M. Kamle** (2009). Isolation, purification and biochemical characterization from oyster mushroom *Pleurotus sajor-caju*. ***Plant Archives***. 9 (1) 41-46.
61. P. Kumar, **M. Kamle**, J. Singh and D. P. Rao (2008). Isolation and characterization of peroxidase from the leaves of *Ricinus Communis*. ***Int. J. Biotech. Biochem***. 4(4): 283-292.

Chapters: 26

1. Sharma R, Singh A, Singh VDR, Ghazaryan K, Kumar P, Kamle M (2024) Phytonanotechnology Application for Sustainable Agriculture. ***In*** Smart Technologies in Sustainable Agriculture: Current and Future Prospects. **Eds**. Kumar P, Singh A, Singh VDR, Minkina T, Singh A. Apple Academic Press, Inc., Canada
2. Singh A, Singh VDR, Ghazaryan K, Yadav AKS, Teyi N, Kumar P, Kamle M (2024) The Next Generation of Farming and the Importance of Artificial Intelligence, Sensor Technology, and Big Data. ***In*** Smart Technologies in Sustainable Agriculture: Current and Future Prospects. **Eds**. Kumar P, Singh A, Singh VDR, Minkina T, Singh A. Apple Academic Press, Inc., Canada
3. Sharma C, Gogoi P, Kamle M**, Kumar P*** (2024) Nanocurcumin: Herbal trends to develop novel antifungal agents. ***In.*** Nanofungicides: Novel Applications in Plant Disease Control. **By** Kamel A Abd-Elsalam (***ed***.), ISBN: 9780323953054
4. Sharma C, Gogoi P, **Kamle M,** Kumar P (2024) Nanocurcumin: Herbal trends to develop novel antifungal agents. ***In.*** Nanofungicides: Novel Applications in Plant Disease Control. **By** Kamel A Abd-Elsalam (***ed***.), ISBN: 9780323953054

5. **Kamle M**, Gogoi P, Mahato KD, Gupta A, Kumar P (2023) Food Preservation by Coating Technology: Nanotechnology Approach. In edited by Santosh Kumar, Avik Mukherjee, Atanu Mitra, Dipankar Halder (eds) Emerging Technologies in Food Preservation, 331-345.
6. Sharma C, **Kamle M**, Kumar P (2023) Green Synthesis of Nanoparticles Using Various Plant Parts and Their Antifungal Activity. In Upadhyay SK, Singh SP (eds.) Plants as Bioreactors for Industrial Molecules. **https://doi.org/10.1002/9781119875116.ch16**
7. Srivastava S, Yadav AK, Ghosh M, Mahato DK, **Kamle M**, Pandey P, Chakraborty S**,** Kumar P (2023) Fumonisins in Food and Feed: Their Detection and Management Strategies. In Kumar P, Kamle M, Mahato DK (eds). Mycotoxins in Food and Feed, CRC Press, USA. 29-49.
8. Selvakumar R, Manjunatha Gowda DC, Pandey AK, Mahato DK, Gupta A, Pandhi S, Kargwal R, **Kamle M**, Kumar P (2023) Detection and Management Strategies for Deoxynivalenol in Food and Feed: An Overview (2023) In Kumar P, Kamle M, Mahato DK (eds). Mycotoxins in Food and Feed, CRC Press, USA. 119-155.
9. Pandey AK, Vashishth R, Mahato DK, **Kamle M,** Selvakumar R, Mathur M**,** Kumar P (2023) Ochratoxins in Food and Feed: Detection and Management Strategies. In Kumar P, Kamle M, Mahato DK (eds). Mycotoxins in Food and Feed, CRC Press, USA. 51-85.
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Technical Session Chair (01) : Online-mode

1. Chaired the Technical session-II as Session Chair in the "**International Virtual Conference on Recent Trends and Innovations in Microbiology**" organized by Department of Microbiology, Mohanlal Sukhadia University, Udaipur on July 15, 2021.

Paper Presentation (International/National Conferences)

1. **M. Kamle**, E. Bar, D. Lewinson, E. Shavit, Nurit Roth-Bejerano, Varda Kagan-Zur, E. Lewinsohn, and Yaron Sitrit* (**2017**). *Development of Edible Desert Truffles as new crops: Characterization of morphology, molecular markers, volatile profiles, and agrotechnologies*. The 9th International Workshop on Edible Mycorrhizal Mushrooms on July-10-14, 2017, Texcoco, Mexico.
2. **M. Kamle*** E. Bar, D. Lewinson, E. Shavit, Nurit Roth-Bejerano, Varda Kagan-Zur, E. Lewinsohn, and Yaron Sitrit* (2016). *Identification of Volatile Compounds of three Desert Truffle Spp. associated with Helianthemum sessiliflorum in Israel***.** Israeli Society of Plant Sciences Conference held on 28 September, Tel Aviv University, Israel.
3. **M. Kamle*** E. Bar, D. Lewinson, E. Shavit, Nurit Roth-Bejerano, Varda Kagan-Zur, E. Lewinsohn, and Yaron Sitrit* (2016). *Characterization of Key Volatiles of wild and cultivated Desert Truffles associated with Helianthemum sessiliflorum (DESF.) in the Negev Desert of Israel***.** 8th International Workshop on Edible Mycorrhizal Mushrooms (IWEMM8) and the Sixth Congress Tuber aestivum/ uncinatum European Scientific Group (TAUESG 6), October, 10-17, 2016, Cahors, France.
4. Radha Yadav, Avijit Tarafdar, Rajkumar Raipuria, Deepesh Bhatt, Ramachandira Prabu, Koushik Biswas, **M. Kamle**, Showkat Ahmed Lone, Jasdeep Chatrath Padaria. *Characterization of Abscisic acid stress ripening (ASR) protein isolated from Ziziphus*. In: Proceeding of National Seminar on Climate Change and Environmental Threat to Public Health and Sustainable Agriculture (pp.-45) organized by Sunbeam College for Woman, Bhagwanpur, Varanasi, August 30-31, 2014.
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8. B.K. Pandey, R. Mishra, A. Pandey, **M. Kamle**, P. Sareen and Muthukumar M. (2010). *Culture independent PCR (ciPCR): A metagenomic tool towards molecular diagnosis of guava wilt*. In: X Agriculture Science Congress on Soil, Plant and Animal for Sustained and Enhanced Productivity on 10-12 february, 2011 at NBFGR, Lucknow. **(Poster Presentation)**
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