

Name

Dr. Nutan Kaushik
Director General

**Department**

Amity Food & Agriculture Foundation
Amity University Uttar Pradesh, Noida - 201313

Qualifications

Ph. D

Experience

Professional with extensive experience of over 25 years in a R&D and over 16 years in PG teaching in the field of biotechnology, plant protection, natural products, analytical chemistry and agriculture policy.

Research Interests

Metabolomics, Development of new analytical methods involving volumetric, spectroscopic and chromatographic techniques, Development of methods for monitoring environmental pollution and develop technologies for control of pollution, Isolation, characterization and bioactivity of plant extracts, Quality analysis for selection of low erucic and low glucosinolate mustard/rapeseed lines by GLC and HPLC. Half-seed analysis for the selection of zero erucic mustard, Bioprospecting of biodiversity for valuable phytochemicals, Agriculture-Food Security, Food Safety and Sustainable Agriculture, Development of Bio pesticides, Demonstration of biological control methods for control of pest and diseases for sustainable agriculture, Persistence and metabolism of pesticides on crops

Teaching Interests

- Supervisor of 5 Ph.D Scholars as Guide at Amity University Uttar Pradesh
- Taught two Pre-Ph.D courses on Bioprospecting and GC and HPLC techniques. Took classes for M.Sc 'Environmental Biotechnology and 'Natural Resource Management'

Publications (Top 20)

A) ORCID ID: <https://orcid.org/0000-0002-3870-8093>

B) Google Scholar ID

<https://scholar.google.com/citations?user=YkHHbV8AAAAJ&hl=en>

C) Scopus ID: 7006151640

1. Marzouk, T., Chouachi, M., Sharma, A., ...**Kaushik, N.**, Djéballi, N. Biocontrol of *Rhizoctonia solani* using volatile organic compounds of solanaceae seed-borne endophytic bacteria. *Postharvest Biol. Tech.* doi: [10.1016/j.postharvbio.2021.111655](https://doi.org/10.1016/j.postharvbio.2021.111655) **IF: 5.567**
2. Sharma A, **Kaushik N**, Sharma A, Bajaj A, Rasane M, Shouche YS, Marzouk T and Djéballi N (2021) Screening of Tomato Seed Bacterial Endophytes for Antifungal Activity Reveals Lipopeptide Producing *Bacillus siamensis* Strain NKIT9 as a Potential Bio-Control Agent. *Front. Microbiol.* 12:609482. doi: 10.3389/fmicb.2021.609482 **IF: 5.640**
3. S Marak, E Shumilina, **N Kaushik**, E Falch and A Dikiy, (2021) Effect of Different Drying Methods on the Nutritional Value of *Hibiscus sabdariffa* Calyces as Revealed by NMR Metabolomics, *Molecules* 2021, 26, 1675 **IF:4.411**
4. **N Kaushik**, S Dhup, and M Jamsheer K (2020) Addition of Methyl Jasmonate and Rutin hydrate at harvest time elicits 2 lipid production in *Scenedesmus*, *Botany*, cjb-2020-0097 **IF:1.323**
5. Sharma, Ayushi, Malhotra, Bhanu, Kharkwal, Harsha, Kulkarni, Giriraj T. & **Kaushik, Nutan** (2020). Therapeutic agents from endophytes harbored in Asian medicinal plants. *Phytochemistry Reviews* volume 19, 691–720. **IF:5.374**
6. **Nutan Kaushik** OrcID, Carmen E. Díaz OrcID, Hemraj Chhipa OrcID, L. Fernando Julio, M. Fe Andrés OrcID and Azucena González-Coloma, Chemical Composition of an Aphid Antifeedant Extract from an Endophytic Fungus, *Trichoderma* sp. EFI671 (2020), *Microorganisms*. **IF: 4.128**
7. Abhishek Sharma, **Nutan Kaushik** & Himanshi Rathore (2020) Karanja (*Milletia pinnata* (L.) Panigrahi): a tropical tree with varied applications *Phytochemistry Reviews* volume 19, pages 643–658 (2020) **IF:5.374**
8. **Kaushik, Nutan**; Coloma, Azucena González (2020) Therapeutic Agents from Endophytes. *Current Medicinal Chemistry*, Volume 27, Number 11, 1813-1814(2) DOI: <https://doi.org/10.2174/092986732711200423115020> **IF: 4.184**
9. Kanika Chowdhary & **Nutan Kaushik** (2020) Bioprospecting Endophytic Fungi Inhabiting Indian Medicinal Plants; *National Academy Science Letters* (2020) **IF: 0.7882**
10. Hemraj Chhipa, **Nutan Kaushik** (2020) Combined effect of biological and physical stress on artificial production of agarwood oleoresin in *Aquilaria malaccensis* 2020/1/1 Journal: bioRxiv
11. Kanika Chowdhary & **Nutan Kaushik** (2019) Biodiversity and In Vitro Inhibition Study of Fungal Endophytes of *Chlorophytum borivillianum* Against Selected Phytopathogens *Proceedings of the National Academy of Sciences, India Section B:*

- Biological Sciences volume 89, pages113–121(2019)
12. Kanika Chowdhary & **Nutan Kaushik** (2019) Diversity and Antifungal Activity of Fungal Endophytes of *Asparagus racemosus* Wild; Agricultural Research volume 8, pages27–35(2019) (**NAAS impact factor 5.95**)
 13. Kanika Chowdhary & **Nutan Kaushik** (2019) Biodiversity study and potential of fungal endophytes of peppermint and effect of their extract on chickpea rot pathogens Archives of Phytopathology and Plant Protection <https://doi.org/10.1080/03235408.2018.1440707> **IF: 0.563**
 14. Chhipa H and **Kaushik N** (2017) Fungal and Bacterial Diversity Isolated from *Aquilaria malaccensis* Tree and Soil, Induces Agarospirol Formation within 3 Months after Artificial Infection. Front. Microbiology. 8:1286. **IF:5.640**
 15. Chowdhary, K. & **Kaushik N.** (2017). Biodiversity and In Vitro Inhibition Study of Fungal Endophytes of *Chlorophytum borivilianum* Against Selected Phytopathogens Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. <https://doi.org/10.1007/s40011-017-0924-2>
 16. Chaudhary, G. & **Kaushik,N** Phytochemical and pharmacological studies in *Pedaliium murex* L.N. Phytochem Rev (2017). doi:10.1007/s11101-017-9499-z. **IF:5.374**
 17. Chhipa, H., Chowdhary, K. & Kaushik, N. Artificial production of agarwood oil in *Aquilaria* sp. by fungi: a review Phytochem Rev (2017). doi:10.1007/s11101-017-9492-6 **IF:5.374**
 18. Mutiat Ibrahim, **Nutan Kaushik**, Abimbola Sowemimo, Hemraj Chhipa, Trevor Koekemoer, Maryna van de Venter & Olukemi A. Odukoya (2017) Antifungal and antiproliferative activities of endophytic fungi isolated from the leaves of *Markhamiatomentosa*, Pharmaceutical Biology, 55:1, 590-595. **IF:2.971**
 19. Mutiat Bolanle Ibrahim, **Nutan Kaushik**, Abimbola Adepeju Sowemimo, Olukemi A. Odukoya. Review of the Phytochemical and Pharmacological Studies of the Genus *Markhamia*. Pharmacognosy Reviews Vol 10 / Issue 19 / Jan-Jun 2016.
 20. Kumari, Archana and **Kaushik, Nutan** (2016) Oviposition Deterrents in Herbivorous Insects and their potential use in Integrated Pest Management. Indian journal of experimental biology 54(03) 163-174. **IF:0.783**
 21. Chowdhary K and **Nutan Kaushik** (2015). Fungal Endophyte Diversity and Bioactivity in the Indian Medicinal Plant *Ocimum sanctum* Linn. PLoS ONE. 2015 Nov 3; 10(11):e0141444 **IF:3.240**
 22. Susheel Kumar and **Nutan Kaushik**. 2013. Endophytic Fungi Isolated from Oil-Seed Crop *Jatropha curcas* Produces Oil and Exhibit Antifungal Activity. PLoS ONE 8(2): e56202. (doi:10.1371/journal.pone.0056202) **IF:3.240**

Professional Affiliations

1. Editorial Board member of Elsevier Journal Heliyon
2. Guest editor of Springer Journal Phytochemistry Review: Special issue “New Processes and Applications for Plant and Microbial Products” 2012 and 2016

3. Member of Editorial Board ISRN Chromatography
4. Member of IUPAC Plant Protection Committee
5. Member of American Chemical Society
6. Member of Phytochemical Society of Europe
7. Member of Crop Science Society of America, USA
8. Member of American Society of Plant Biologists, USA
9. Member of International Association for the Plant Protection Sciences
10. Life Member of Society for Promotion and Innovation of Biopesticides
11. Life member of Society of Pesticide Science, India.
12. Life member of Indian Society of Plant Genetic Resources
13. Life member IARI Alumni Association.
14. Offered membership of New York Academy of Sciences
15. Served as reviewer of many national and international journals
16. Member of Expert committee on development of Biopesticide Strategy paper
17. Member of Entomologist Society of America
18. DAAD-Alumnus
19. MSU-Alumnus
20. Wageningen University-Alumnus
21. UC-Davis Alumuns
22. BIRAC Expert Group on agriculture
23. Task Force member of Biocare Program of DBT
24. Member of Expert Group on Eco-agriculture

Professional Activities

Director General, Food and Agriculture Foundation, Amity University

Organized several training programmes, seminar/symposium as Chairman, and Secretary/Convener

Talks/Lead/Plenary Talks and Contributed papers on International / National Platforms

Other Achievements: Awards and Fellowships

1. BIRAC- Best Innovation in Agriculture 2016 Award
2. Awarded DBT CREST Fellowship in the year 2013

3. Bharat Jyoti Award and certificate of excellence from India International Friendship Society, India in 2012. Selected as DAAD Research Ambassador by Deutscher Akademischer Austauschdienst Dienst in 2010
4. Awarded IARI Senior Fellowship.
5. Awarded ICAR NET Fellowship
6. Awarded NFP Fellowship of The Netherland Government in 2005
7. Awarded Cochran Fellowship of USDA in 2003.
8. Government of Korea Travel Award to deliver a lecture in 1st RDA/ ARNOA International Conference on Asia Organic Agriculture Suweon & Cheonan, Republic of Korea in 2002
9. UNESCO Travel Award for participation in IUPAC Conference on Biodiversity (ICOB-3), Turkey in 2001
10. INSA Young Scientist Travel Award for participation in XIVTH International Plant Protection Congress (IPPC) Plant Protection Towards the Third Millennium – Where Chemistry Meets Ecology, Isreal in 1999
11. Awarded Merit Scholarship
12. Notification of lowerucic rapeseed line by varietal release committee in August - 2001(as Co- Scientist)
13. Registration of seven quality lines by ICAR-NBPGR Germplasm Registration Committee (as Co-Scientist).
14. Best poster award for “Antiphytopathogenicity of endophytic fungi isolated from Indian medicinal plants” presented at International Conference on Mycology & Plant Pathology: Biotechnological approaches (ICMPB-2012), February 27-29, 2012 at Banaras Hindu University, Varanasi.
15. 2nd Prize for best poster award for the paper “Endophytic Fungi of *Tylophora indica* for management of wilt and root rot of chickpea” presented at 5th International Conference on Biopesticides: Stakeholders’ Perspectives, New Delhi, 26-30 April, 2008 at IHC, India. pp.71-72
16. Best paper award for “Biological effects of *Tylophora indica* on growth and development of *H. armigera*” paper presented at National Symposium ‘Pesticide: Myths, Realities, and Remedies’, Dec 1-3, 2004, IARI, New Delhi.

Contact Information

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