

A. ONGOING Projects

S. No.	TITLE	PI	FUNDING AGENCY	BUDGET
1	Building capacity to enhance farmer's capabilities to address the challenges of climate change using Climate Smart Agriculture strategies	Dr. Nutan Kaushik	APN	Rs. 43.8 Lakhs
3.	Availability, utilization and digital documentation of non- timber bioresources for sustainable rural livelihood and decision support system of the rural households in the northwest Himalayas	Dr. R.S. Antil	MOEF & CC under NHMS	Rs. 12.20564 Lakhs
5.	Leveraging genetic resources for accelerated genetic improvement of Linseed using comprehensive genomics and phenotyping approach	Dr. Nutan Kaushik	DBT Network Project (Invited Project)	Rs. 1.27 crores
6.	Omega Research Project	Dr. Nutan Kaushik	Norwegian Research Council (RCN)	400,000 NoK Nearly Rs. 32 Lakh
7.	Validation of Sal seed cake as organic manure and nitrification inhibitor	Dr. R.S. Antil	TRIFED	Rs. 16.61 Lakh
8.	A consultancy project "Validation of the product BioMix-I and MCI developed by CPB for Crop Residue Management (Stubble degradation)"	Dr. Abhishek Sharma	Care Pro Biosciences Pvt.Ltd.	Rs. 1 Lakh
9	RKVY Raftar on Training on Mushroom production	Dr. Shalini Singh Visen	UP MoA	RS. 263.63 Lakh
10.	Establishment of Gramin Prayogshala	Dr. Shalini Singh Visen	UPCST	RS. 10.53 Lakh
2	Study of the interaction between TOR-SnRK1 and nutrient dynamics in plants and its utilization in rice improvement	Dr. M. Jamsheer K	DST-INSPIRE Faculty Project	Rs. 1.1 Crores
4.	Functional exploration of triterpene gene clusters in model plants	Dr. Ramesha	DBT-Ramalingaswami Re-entry fellowship	Rs. 1.2 Crores

B. COMPLETED PROJECTS

S.No.	Funding Agency	Project Title	PI & Co-PI (Completion date)	Proposed Project cost (Rs lakhs)
1.	DST-SERB-YSS	Identification and molecular characterization of novel genes involved in temperature and energy-dependent development in rice	Dr. Manoj Kumar – PI (March 2020)	11.27 Lakhs
2.	DST	Diversity of tomato seed-borne endophytes and their applications for the promotion of plant growth and defense against pathogens(TOMendo)	Dr. Nutan Kaushik-PI (June 2020)	23.4 Lakhs
3.	DBT-EU	ReValue: Innovative technologies for improving resource utilization in the Indo-European fish value chains	Dr. Nutan Kaushik-PI (August 2021)	Rs. 97.6 Lakhs
4.	RCN	Re-FOOD: International Partnership for Research and Education in energy efficient resource utilization in FOOD value chains between Norway and India (2017-2019)	Dr. Nutan Kaushik-PI (December 2020)	Rs. 1.36 Crores
5	Silk Board	Training on Sericulture	Dr. Shailini Singh Visen	Rs. 3.5 Lakh

A. Research/Review Papers published (Total IF: 134.142)

1. **Kaushik, N., Dhup, S., & Jamsheer K, M. (2021).** Addition of methyl jasmonate and rutin hydrate at harvest time elicits lipid production in *Scenedesmus*. *Botany*, 99(3), 167-173. **IF: 1.323**
2. **Sharma, A., Kaushik, N., Sharma, A., Bajaj, A., Rasane, M., Shouche, Y. S., & 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. *Frontiers in Microbiology*, 12, 1228. **IF: 5.640**
3. Marzouk, T., Chouachi, M., Sharma, A., Jallouli, S., Mhamdi, R., **Kaushik, N., & Djéballi, N. (2021).** Biocontrol of *Rhizoctonia solani* using volatile organic compounds of solanaceae seed-borne endophytic bacteria. *Postharvest Biology and Technology*, 181, 111655. **IF: 5.537**
4. **Jamsheer K, M., Kumar, M., & Srivastava, V. (2021).** SNF1-related protein kinase 1: The many-faced signaling hub regulating developmental plasticity in plants. *Journal of Experimental Botany*. **IF: 5.90**
5. **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**
6. Mariadoss Alphonse, Rajasekaran Chandrasekaran, Siva Ramamoorthy, Devanand P. Fulzele, **Ravindra Raina & Kalaivani Thiagarajan . (2021).** Optimizing Shoot Formation in *Gentiana kurroo* Royle for Gentiopicroside Production. *Journal of Plant Growth Regulation*, <https://doi.org/10.1007/s00344-021-10352-z>. **IF: 2.9**
7. **Sharma A, Sharma S, Sabir N, El-Sheikh M.A, Alyemeni M. (2021).** Impact assessment of Karanja deoiled cake and sundried biogas slurry as a mixed substrate on the nematicidal potential of *Purpureocillium lilacinum*. *Journal of King Saud University - Science*, Volume 33, Issue 3, 2021, 101399, ISSN 1018-3647, <https://doi.org/10.1016/j.jksus.2021.101399>. **IF: 3.819**
8. Bhardwaj A, **Sharma A**, Goswami BK, Bhardwaj V. Interaction Effect of Soilless Media and Organic Amendments for Eco-Friendly Root-Knot Nematode Management in Brinjal and Tomato Nursery. *J Pure Appl Microbiol.* (2021);15(1):356-367. doi:10.22207/JPAM.15.1.30. **IF: 0.48**
9. Choure K, Parsai S, Kotoky R, Srivastava A, Tilwari A, Rai PK, **Sharma A** and Pandey P (2021) Comparative Metagenomic Analysis of Two Alkaline Hot Springs of Madhya Pradesh, India and Deciphering the Extremophiles for Industrial Enzymes. *Front. Genet.* 12:643423. doi:

10.3389/fgene.2021.643423. **IF:3.258**

10. Chauhan, A., Kumar, **M.**, Kumar, A., & Kanchan, K. (2021). Comprehensive review on mechanism of action, resistance and evolution of antimycobacterial drugs. *Life sciences*, 119301. **IF:5.037**
11. Topno, R., Singh, I., **Kumar, M.**, & Agarwal, P. (2021). Integrated bioinformatic analysis identifies UBE2Q1 as a potential prognostic marker for high grade serous ovarian cancer. *BMC cancer*, 21(1), 1-13. **IF:4.430**
12. **Kaushik N**, Coloma, A G. (2020) Therapeutic Agents from Endophytes. *Current Medicinal Chemistry* 27: 1813-1814 **IF: 4.184**
13. Ravindra N Kharwar, Vijay K Sharma, Ashish Mishra, Jitendra Kumar, DheerajK Singh, Satish K Verma, Surendra K Gond, Anuj Kumar, **Nutan Kaushik**, Bharadwaj Revuru, Souvik Kusari (2020) Harnessing the Phytotherapeutic Treasure Troves of the Ancient Medicinal Plant *Azadirachta indica* (Neem) and Associated Endophytic Microorganisms. *Plant Medica* **IF: 2.74**
14. **Kaushik N**, Díaz C E, Chhipa H, Julio L F, Fe Andrés M, Coloma A G (2020) Chemical Composition of an Aphid Antifeedant Extract from an Endophytic Fungus, *Trichoderma* sp. EFI671. *Microorganisms* 8:420. **IF: 4.152**
15. **Sharma, Ayushi.**, Malhotra, B., Kharkwal, H. Kulkarni G T, and **Kaushik N** (2020). Therapeutic agents from endophytes harbored in Asian medicinal plants. *Phytochem Rev* 19, 691–720. **IF:5.374**
16. **Sharma Abhishek, Kaushik N** and Rathore H, (2020). Karanja (*Milletia pinnata*(L.) Panigrahi): a tropical tree with varied applications. *Phytochemistry Review*.<https://doi.org/10.1007/s11101-020-09670-z> **IF:4.298**
17. Achar, P. N., Quyen, P., Adukwu, E. C., **Sharma, A.**, Msimanga, H. Z., Nagaraja, H., & Sreenivasa, M. Y. (2020). Investigation of the antifungal and anti-aflatoxigenic potential of plant-based essential oils against *aspergillus flavus* in peanuts. *Journal of Fungi*, 6(4), 383. **IF: 4.621**
18. **Sharma, A.**; Gupta, A.; Dalela, M.; Sharma, S.; Sayyed, R.Z.; Enshasy, H.A.E.; Elsayed, E.A. Linking Organic Metabolites as Produced by *Purpureocillium lilacinum* 6029 Cultured on Karanja Deoiled Cake Medium for the Sustainable Management of Root-Knot Nematodes. *Sustainability* (2020), 12, 8276. **IF: 2.576**
19. Yadav S., **Sharma A.**, Khan M.A., Sharma R., Malik A., and Sharma S., (2020). Enhancing hexahydro-1, 3, 5-trinitro-1, 3, 5-triazine (RDX) remediation through water-dispersible *Microbacterium esteraromaticum* granules. *Journal of Environmental Management*, 264:110446. doi:10.1016/j.jenvman.2020.110446 **IF:5.36**

20. Khan, M. A., Yadav, S., Sharma, R., Dalela, M., Celin, S. M., **Sharma, A.**, & Sharma, S. (2020). Augmentation of stimulated *Pelomonas aquatica* dispersible granules enhances remediation of hexahydro-1, 3, 5-trinitro-1, 3, 5-triazine (RDX) contaminated soil. *Environmental Technology & Innovation*, 17, 100594 ISSN: 2352-1864 **IF: 3.356**
21. **Kumar M**, Sharma K, Yadav AK, Kanchan K, Baghel M, Kateriya S, Pandey GK (2020) Genome-wide identification and biochemical characterization of calcineurin B-like calcium sensor proteins in *Chlamydomonas reinhardtii*. *Biochemical Journal* 477:1879-1892 **IF: 4.331**
22. **Kaushik N**. HPLC analysis of *Withania somnifera* (Linn.) Dunal reveals two chemotypes in Indian germplasm and seasonal and genetic variability in Withaferin A-Content. (**Pre-Print**)
23. Chippa H and **Kaushik N**. Combined effect of biological and physical stress on artificial production of agarwood oleoresin in *Aquilaria malaccensis* (**Pre-Print**)
24. **Kaushik, N.**, Díaz, C. E., Chhipa, H., Julio, L. F., Andrés, M. F., & González-Coloma, A. (2020). Chemical composition of an Aphid antifeedant extract from an Endophytic Fungus, *Trichoderma* Sp. EFI671. *Microorganisms*, 8(3), 420. **IF:4.128**
25. Sheoran, S., Raj, D., **Antil, R. S.**, Mor, V. S., & Grewal, K. S. (2020). Soil microbial properties influenced with long term application of manures and fertilizers. *The Indian Journal of Agricultural Sciences*, 90 (1). **IF: 0.33**
26. Rathore, H., **Sharma, A.**, Prasad, S., Kumar, A., Sharma, S., & Singh, A. (2020). Yield, nutritional composition and antioxidant properties of *Calocybe indica* cultivated on wheat straw basal substrate supplemented with nitrogenous tree leaves. *Waste and Biomass Valorization*, 11(3), 807-815. **IF:3.703**
27. Yadav, S., Sharma, A., Khan, M. A., **Sharma, R.**, Celin, M., Malik, A., & Sharma, S. (2020). Enhancing hexahydro-1, 3, 5-trinitro-1, 3, 5-triazine (RDX) remediation through water-dispersible *Microbacterium esteraromaticum* granules. *Journal of environmental management*, 264, 110446. **IF: 6.789**
28. **Kumar, M.**, Sharma, K., Yadav, A. K., Kanchan, K., Baghel, M., Kateriya, S., & Pandey, G. K. (2020). Genome-wide identification and biochemical characterization of calcineurin B-like calcium sensor proteins in *Chlamydomonas reinhardtii*. *Biochemical Journal*, 477(10), 1879-1892. **IF:3.857**
29. Meena MD, Yadav RK, Narjary B, Yadav G, Jat HS, Sheoran P, Meena MK, **Antil RS**, Meena BL, Singh HV, Meena VS. Municipal solid waste (MSW): Strategies to improve salt affected soil sustainability: A review. *Waste management*. (2019) Feb 1;84:38-53. **IF:7.145**
30. **Antil, R. S**. Integrated Nutrient Management for Sustainable Soil Health and Crop Productivity in Indian Agriculture. *Journal of the Indian Society of Soil Science*, 67(4 (S)). **IF: 0.42**
31. Jangir, M., Pathak, R., **Sharma, A.**, Sharma, S., & Sharma, S. (2019). Volatiles as strong markers

for antifungal activity against *Fusarium oxysporum* f. sp. *lycopersici*. *Indian Phytopathology*, 72(4), 681-687. **IF:0.46**

32. Gautam, K., & **Raina, R.** (2019). Floral architecture, breeding system, seed biology and chromosomal studies in endangered Himalayan *Angelica glauca* Edgew.(Apiaceae). *Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics*, 72(3), 23-34. **IF:0.641**
33. **Jamsheer K, M.**, Jindal, S., & Laxmi, A. (2019). Evolution of TOR–SnRK dynamics in green plants and its integration with phytohormone signaling networks. *Journal of experimental botany*, 70(8), 2239-2259. **IF: 5.354**
34. Gautam, K., & **Raina, R.** (2019). Floral architecture, breeding system, seed biology and chromosomal studies in endangered Himalayan *Angelica glauca* Edgew.(Apiaceae). *Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics*, 72(3), 23-34. **IF: 0.641**
35. Jamsheer K, M., Singh D., Sharma, M., Mannully, C.T., Jindal, S., Shukla, B.N., Laxmi, A. (2019) The FCS-LIKE ZINC FINGER 6 and 10 are involved in regulating osmotic stress responses in *Arabidopsis*. *Plant Signal Behav.* 14(6):1592535. **IF:2.247**
36. **Sharma A**, Sharma, N.K., Srivastava A, Kataria A, Dubey S, Sharma S and Kundu B, (2018). Clove and lemongrass oil to fabricate non-ionic nanoemulsion for suppressing the growth of plant pathogenic *Fusarium oxysporum* f.sp. *lycopersici*. *Industrial Crops and Products*, 123, 353-362. ISSN: 0926-6690 **IF:4.45**
37. Rathore H, **Sharma A**, Prasad S, Sharma S, and Kumar A. (2018). Yield, nutritional composition and antioxidant properties of *Calocybe indica* cultivated on Wheat straw basal substrate supplemented with nitrogenous tree leaves. doi.org/10.1007/s12649-018-0416-5. *Waste and Biomass Valorization*. ISSN: 1877-2641 11, 807–815 **IF: 2.851**
38. Rathore H, Sharma A, Prasad S, and Sharma S, (2018). Selenium bioaccumulation and associated nutraceutical properties in *Calocybe indica* mushroom cultivated on Se-enriched wheat straw. *Journal of Biosciences and Bioengineering*, doi: 10.1016/j.jbiosc.2018.04.010. **IF: 2.894**
39. Garg, Gaurav, Amol Patil, Jagjit Singh, **Nutan Kaushik**, Ajay Praksah, Arnab Pal, and Amitava Chakrabarti. "Pharmacological evaluation of *Convolvulus pluricaulis* as hypolipidaemic agent in Triton WR-1339-induced hyperlipidaemia in rats." *Journal of Pharmacy and Pharmacology* (2018). **IF:3.765**
40. Chowdhary, Kanika, and **Nutan Kaushik**. "Biodiversity study and potential of fungal endophytes of peppermint and effect of their extract on chickpea rot pathogens." *Archives of Phytopathology and Plant Protection* 51, no. 3-4 (2018): 139-155. **IF:0.74**

B. Book Chapters

1. **Sharma A**, Dubey S, and Nusrat, (2020). Microemulsion formulation of botanical oils as an efficient tool to provide sustainable agricultural pest management" in: *Nano and Micro-*

Encapsulation - Techniques and Applications, IntechOpen, DOI: 10.5772/intechopen.91788. ISBN 978-1- 78985-332-2.

2. Khan, M. A., **Sharma, A.**, Yadav, S., & Sharma, S. (2020). Rhizospheric Microbes as Potential Tool for Remediation of Carbofuran: An Overview. *Rhizosphere Microbes*, 557-571.
3. **Antil, R.S.** and Dev Raj (2020). Integrated nutrient management for sustainable crop production and improving soil health. Meena, R.S. et al. (eds.). *Study of Soil Management for Sustainability*. Springer Nature Singapore Pte Ltd. Singapore. Pp. 67-102.
4. Saksena H.B. et al. (2020) Protein Phosphatases at the Interface of Sugar and Hormone Signaling Pathways to Balance Growth and Stress Responses in Plants. In: Pandey G.K. (eds) *Protein Phosphatases and Stress Management in Plants*. Springer, Cham. https://doi.org/10.1007/978-3-030-48733-1_7
5. Sharma M, **Jamsheer K M** et al. (2020) Balancing growth and defence: role of Target of Rapamycin and SNF1-Related protein kinase 1 in stress signalling in plants. *Protein Kinases and Stress Signaling in Plants: Functional Genomic Perspective* (Publisher: Wiley) doi:<https://doi.org/10.1002/9781119541578.ch5>
6. **Raina, R.**, & Gautam, K. (2020). Conservation and Utilization of High-Altitude Threatened Medicinal Plants. In *Conservation and Utilization of Threatened Medicinal Plants* (pp. 369-387). Springer, Cham. doi: https://doi.org/10.1007/978-3-030-39793-7_13
7. **Jamsheer, K. M.**, Jindal, S., Sharma, M., Sharma, M., Singh, D., Tiwari, A., & Laxmi, A. (2019). A Tale of Sugars and Hormones: Perception and Responses. In *Sensory Biology of Plants* (pp. 323-360). Springer, Singapore.
8. “Vertical Farming: Status, Issues and Prospects” by **Nutan Kaushik** and **Abhishek Sharma** in Book *Vertical Farming: Status, Researchable Issues and Way Forward*” published by Amity University and ICAR, New Delhi in 2018 edited by T. Janakiram, Nutan Kaushik, Vikramaditya Pandey, Ranvir Singh and Abhishek Sharma

Patents

1. **Dr. Nutan Kaushik, Khushboo, Asha Kumari** (AFAF) “Process for production of gelatin from fish skin and bones having various functional properties” 2021, Patent No: 202111030432.
2. **Dr. Nutan Kaushik, Dr. Rasa Slizyte, Asha Kumari, Khushboo** (AFAF) “Process for Production of Protein Rich hydrolysates from Fish and Fish by-products and its Microencapsulation” 2021. (To be filed).
3. **Dr. Nutan Kaushik, Asha Kumari and Khushboo** (AFAF) “Process for preparation of Ready to Cook Protein Rich Soup Powder” 2021. (To be filed).
4. **Dr. Nutan Kaushik, Khushboo, Asha Kumari** (AFAF) “Chicken meatballs preparation using fish gelatin” 2021. (To be filed).
5. **Nutan Kaushik, Ms. Ayushi Sharma, Dr. Abhishek Sharma** (AFAF) "A Formulation of Endophytic Bacteria Isolated from Tomato Seeds for Crop Protection and Plant Growth Promotion" **21-May 20** Patent No: 20191102009 (Full Patent submitted)
6. **Nutan Kaushik, Sancharini Das, Khushboo, Asha Kumari** (AFAF) “Process for removal of soluble protein from meat and seafood industry wash water and utilization of precipitated protein” **September 2020** Patent No. 201911037164 (Full Patent submitted).
7. “A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL GREEN COLOUR AND HERBAL GREEN COLOUR THEREOF” 1. on **26th Sept 2019**; Patent Application No. :201911039016
Inventors name : Singh Sarvjeet Deptt. of Botany, Panjab University, Chandigarh; **Raina Ravinder** Amity Food and Agriculture Foundation, Amity University, Noida; Puri Richa Deptt. of Botany, Panjab University, Chandigarh
8. “A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL PINK COLOUR AND HERBAL PINK COLOUR THEREOF”; Patent Application No.: 201911039020
Inventors name : Singh Sarvjeet Deptt. of Botany, Panjab University, Chandigarh; **Raina Ravinder** Amity Food and Agriculture Foundation, Amity University, Noida; Puri Richa Deptt. of Botany, Panjab University, Chandigarh
9. “A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL YELLOW COLOUR AND HERBAL YELLOW COLOUR THEREOF: Patent Application

No.: 201911039021

Inventors name : Singh Sarvjeet Deptt. of Botany, Panjab University, Chandigarh; **Raina Ravinder** Amity Food and Agriculture Foundation, Amity University, Noida; Puri Richa Deptt. of Botany, Panjab University, Chandigarh.

Annexure 4

MoUs

1. An MoU with Sri BioAesthetics Pvt.Ltd Hyderabad in 2021.
2. An MoU with **Ohio State University, USA**, was signed on 19.02.2021
3. An MoU has been signed with **CSIC Spain**. 2020
4. An MoU has been signed with **CCS Haryana Agriculture** University, Hisar on 17th January 2020.
5. An MoU has been signed with **Kafrelsheikh University, Egypt in 2019**.
6. An MoU has been signed with **NTNU, Norway in 2019**
7. An MoU has been signed with ICFA 2019
8. An MoU has been signed with Dhanuka Agrochemicals 2018
9. An MoU with Social Advancement Ventures Foundation (SAVe Foundation) is under process.

Honorary Professorships/ Awards

- **Prof. Rattan Lal**, Distinguished University Professor of Soil Science, Director, Carbon Management and Sequestration Center, Past President, International Union of Soil Sciences was offered honorary degree (Honoris Causa) on 29th December 2020.
- **Dr. Purvi Mehta**, Senior Advisor & Head of Bill & Melinda Gates Foundation was offered honorary professorship by Amity University on 12.06.2018.
- **Prof. (Dr.) Vibha Srivastava**, Professor of Plant Biotechnology and Director of Experimental Station (Crop Soil and Environmental Science), University of Arkansas, USA was awarded honorary professorship by Amity University on 3rd July 2019.
- **Prof. Kadambot Siddique**, Hackett Professor of Agriculture Chair and Director, The UWA Institute of Agriculture, Australia was offered Honorary Professorship on 10th Feb 2020.
- **Mr. Deepak Gadre**, Founder of Gadre Marine, Maharashtra was awarded "Amity Industry Award for Excellence in Food Processing" for the Year - 2021 during the Workshop on "Sustainable Utilization of Water in Seafood Industry- Recycle and Reuse" held on 06 August, 2021.

Visits of Important Dignitaries to Amity University

1. Visit of Dr. KRK Reddy, founder of Sri BioAesthetics Pvt. Ltd. Hyderabad, his wife, Mrs. Anuradha and their daughter K Sri Varshitha for the signing of MoU on 08.04.2021.
2. Dr. Zeyaur R. Khan, a Principal Scientist and Leader of the Grass Ecosystems Program at the International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya visited Amity University on 29th November, 2019 to deliver a guest lecture on the topic “Understanding Chemical Ecology and Plant Behaviour can lead to Sustainable Agricultural Development: An Example from Africa but a Lesson for Asia”.
3. Visit of Dr. Eugenio Aguilo, Agricultural Attache, Embassy of Chile to AUUP, Noida on 6th November 2019
4. Visit of Mr. Mariano Beheran, Agricultural Attache, Embassy of Argentina to AUUP, Noida was organized on 4th November 2019.
5. Visit of Delegation from Afghanistan to Amity University on 03.09.2019.
6. A guest lecture was organized of Dr. Pawanexh Kohli, CEO, NCCD, on 'Cold chain potential in India: Prospects and Concerns' on 13.09.2019.
7. Dr. T. Janakiram, ADG (Hort. Scie.), ICAR, New Delhi, visited Amity University on 25.04.2019.
8. Delegation from Embassy of France represented by Mrs. Françoise Moreau-Lalanne, the Counsellor for Agricultural Affairs at the Embassy of France in India, Mr Christophe Groëll, Professor of Economy at EPLEFPA Perpignan and Mr Jean-Christophe Ygrié, Professor of English language at EPLEFPA Lozère, visited Amity University on 19th March 2019.
9. Visit of Dr. C. Sivaji from DST for ASTIF Lecture Series on 8th February 2019
10. Visit of Dr. Sangita Ladha of Jain Irrigation System on 14th February 2019 to discuss the opportunities of possible collaboration.
11. Visit of Dr. Suveera Dhup and Dr. Sachin Sharma of Wellcome Trust/DBT Alliance for a meeting on 20th February 2019.
12. Visit of Dr. Leon Husson, Country Coordinator India & Coordinator Centers of Excellence, PUM Netherlands Senior Experts on 30th January 2019.
13. Visit of Dr. Naceur DJEBALI & Dr. Salem Elkahoui from Tunisia under Indo-Tunisia project

on 3 July 2019 – 9 July 2019.

14. Visit of Mr. Wouter Verhey, Agricultural Counselor and Mr. Anand Krishnan, Deputy Counsellor for Agriculture, Nature & Food Quality from Embassy of Kingdom of Netherlands on 02.02.2018.
15. Visit of Dr. Saleh Ahmed, Chairman, KERNEL Group of Companies along with delegation from Bangladesh on 16.02.2018.
16. Visit of Dr. Teresa Barres Benlloch, Counselor for Agriculture and Mr. Javier Menéndez, Embassy's Counsellor for Education, Spanish Embassy on 18.05.2018
17. Visit of Dr. Purvi Mehta, Asia Lead- Agriculture, Bill & Melinda Gates Foundation (BMGF) on 12.06.2018
18. Visit of Dr. C.S. Shoran, Executive Director, ICFA for MoU signing on 25.07.2018
19. Visit of team of Bill & Melinda Gates Foundation (BMGF) on 27.07.2018
20. Visit of Mr. Siebe Schhur, Counselor for Agriculture, Nature & Food Quality, Embassy of Kingdom of Netherlands and Mr. Anand Krishnan, Deputy Counsellor for Agriculture, Nature & Food Quality, Embassy of Kingdom of Netherlands on 07.09.2018
21. Visit of Dr. Po-Min Li, Professor of Biomechatronics Engineering and Dr. Fure-Chyi Chen, Professor of Plant Industry from NPUST, Taiwan, and Dr. Mumin Chen, Vice President for International Affairs, NCHU, Taiwan on 22.11.2018.
22. Visit of Dr. Naceur DJEBALI & Dr. Mounawer BEDRI from Tunisia under Indo-Tunisia project on 19 March 2018 – 25 March 2018.

Events Organized

1. **Dr. Nutan Kaushik** organized meeting of Hon'ble VC Madam with President of Pesticides Manufacturers & Formulators Association of India (PMFAI) for setting up of Amity-PMFAI Joint Centre of Excellence on Plant Protection and Plant Health on 15.05.21
2. **Dr. Nutan Kaushik** organized Farmers Training Programme On “Building Capacity to Enhance Farmers Capabilities to Address the Challenges of Climate Change Using Climate Smart Agriculture Strategies” at KVK, Muzaffarnagar on 22.07.21
3. **Dr. Nutan Kaushik** organized 2nd International Training Program on “Climate Smart Agriculture Practices to Enhance Farmer's Capabilities to Address the Challenges of Climate Change using Climate Smart Agriculture Strategies” on 27.07.21 and 28.07.21 under APN Project.
4. **Dr. Nutan Kaushik** organized three sessions of various speakers during Three Day International Conference on Students' Progression (ICSP'21) from June 24 to June 26, 2021. Dr. R.S. Antil chaired the session on theme: Advanced technologies for sustainable Agri-Horti production system. Dr. Ravinder Raina, Dr. Shalini Singh & Abhishek Sharma were also involved in organizing & coordinating the sessions.
5. **Dr. Nutan Kaushik** organized a workshop on “Sustainable Utilization of Water in Seafood Industry- Recycle and Reuse” under ReValue Project on 06.08.21
6. **Dr. Nutan Kaushik** organized AFAF's participation in International Youth Day on Theme ‘Transforming Food Systems: Youth Innovation for Human and Planetary Health’ on 09.08.21.
7. **Dr. Nutan Kaushik** organized International Master Trainer Workshop “Building Capacity to Enhance Farmers Capabilities to address the Challenges of Climate Change Using Climate Smart Agriculture Strategies” from Feb. 10 to 15, 2020 at Amity University Uttar Pradesh, Noida.
8. **Dr. Abhishek Sharma** co-organized an Integrated Workshop on Publication Ethics and Patenting" & International conference on "Environmental Sustainability: Innovations, Translational Dimensions and Way Forward" at Department of Environmental Science, BBA University, Lucknow held from 10th to 12th February 2020
9. **Dr. Nutan Kaushik** organized a Farmers' training workshop at KVK, Gautam Buddh Nagar on 20th – 21st November 2020 under APN Project.

10. **Dr. Nutan Kaushik and Dr. Abhishek Sharma** were the part of the team from AFAF for organizing World Soil Day 2020 on 7th December 2020 hosted by Amity University New York under the aegis of Amity Global Research Hub.
11. **Dr. Nutan Kaushik** organized the RE-FOOD Third Symposium at Amity University, Kolkata from 4th-5th December 2019 under the INTPART Project titled “Re-FOOD: International Partnership for Research and Education in energy efficient resource utilization in FOOD value chains between Norway and India (2017-2019)”
12. Dr. Nutan Kaushik organized a Mini Indo-Tunisia Symposium on “Microbes for Sustainable Agriculture” scheduled on 5th July 2019 at Amity University Uttar Pradesh, Noida.
13. Workshop on **Vertical Farming-Status, Researchable Issues & Way Forward** in collaboration with **ICAR** at NAAS Complex, New Delhi on 18.10.2018.
14. Workshop on **Metabolomics and Natural Products at Institute of Agricultural Sciences (CSIC) and Spanish Cultural Heritage Institute, Madrid , Spain** from 27 – 28 May, 2018
15. **Euroindoamerican Natural Products Meeting (EIAMNP) in Madrid Spain** from 29th May to 1st June 2018.
16. **Indo –Tunisia** Joint Workshop at Centre of Biotechnology of Borj Cedria, Tunisia from 12th March, 2018.

LIST OF WEBINARS

Sl. No	Webinar Guest	Designation	Webinar Title	Date
1.	Mr. Raju Kapoor	Director - Corporate Affairs	COVID-19: opportunities and risks for Agriculture	22nd April 2020
2.	Dr. Vivek Gupta	Senior cardiologist, Apollo hospital, New Delhi	COVID-19 pandemic: Impact on health care and heart	23rd April 2020
3.	Dr. Russell Freed	Professor (International Agronomy) Michigan State University, USA	Team Building and Leadership Development for Agricultural Research and Development	29th April 2020

4.	Dr. Karim Maredia	Senior Global Scholar and Director of International Programs, College of Agriculture and Natural Resources, Michigan State University, USA	Technology Transfer and Commercialization: Experiences from Michigan State University	1st May 2020
5.	Mr. Rohit Kumar Singh (IAS)	Additional Chief Secretary, Department of Medical health and family welfare, Rajasthan	COVID-19- A Bhilwara Model	2nd May 2020
6.	Dr. Brad Day	Professor Plant, Soil and Microbial Sciences Michigan State University, USA	Biotechnology Tools for Rapid Detection of Plant Diseases	4th May 2020
7.	Dr. Randy Beaudry	Professor Department of Horticulture Michigan State University, USA	Low-cost Cold Storage Structures for Perishable Food Products in Rajasthan and Haryana, India	5th May
8.	Dr. Thomas Wood	Senior Specialist, Plant Pathology, National Institute of Agricultural Botany (NIAB), Cambridge, UK	Exploiting next- generation sequencing to establish resources for implementing marker-assisted selection in Vicia faba (field bean) and molecular surveillance of pathogens to contribute to sustainable crop production in the UK and beyond	6th May 2020
9.	Dr. George Bird	Professor Emeritus Department of Entomology Michigan State University, USA	Global Food Security and Sustainable Development	12th May 2020
10.	Dr. Sangita Ladha	VP (Marketing), Jain Irrigations Ltd., India	Irrigation and Water Management in Agriculture - Integrated Water Resources Management (IWRM)	15th May 2020
11.	Shri Satish Mahana	Cabinet Minister UP Industrial Development	Effect of COVED- 19 Pandemic on Industry and Agriculture Sector	29th June 2020
12.	Prof. Rattan Lal	Professor, Ohio State University	Soil Health	10th July 2020

13.	Prof. Zeyaur Khan	Thomas Odhiambo Distinguished Research Fellow, ICRPE	Integrated Pest Management	29th Sep. 2020
14.	Dr. Azucena G Coloma	Scientific Researcher & Group Leader, Plant Protection Department, Instituto de Ciencias Agrarias (ICA), CSIC, Spain	Biotechnological Production Of Biopesticides From Bethencourtia Palmensis	1st Oct. 2020
15.	Dr R.S Deshpande	Former Director, Institute of Social and Economic Change, Bangalore	Relevance of Gandhian Thoughts Today	2nd Oct. 2020
16.	Dr. Neeti Wilson,	Partner, Anand & Anand Intellectual Property Law Firm, Noida	Horti food innovation - how to claim the novelty?	16th Oct. 2020
17.	Panel Discussion	Mission Shakti: against all odds	Mission Shakti: against all odds	22nd Oct. 2020
18.	Dr. M Prabhakar	Principal Scientist, ICAR-Central Research Institute for Dryland Agriculture	Climate Management of Crops	5th Nov. 2020
19.	Prof. Swati Sharma	ICAR	Post-Harvest Handling & Marketing	7th Nov. 2020
20.	Prof. Pierluigi Caboni and Prof. Graziella Tocco	Senior Scientist - University of Cagliari	Phytonematodes and alkynes as a scaffold to synthesize new nematicidal products	16th Dec. 2020
21.	Dr. Patanjali,	Scientist, IARI	“Pesticide Formulation	2020
22.	Dr. Anju Kamra	Principal Scientist, IARI	“Management of Nematode Control”	2020
23.	Dr. Zeeshan,	Research Fellow, University of Chicago	“Plant Immune System”	2020
24.	Dr. Kadambot Siddique + 8 speakers from Australia, India, Bangladesh and Afghanistan.	UWA, Australia	2nd International Training Program on “Climate Smart Agriculture Practices to Enhance Farmer's Capabilities to Address the Challenges of Climate Change using Climate Smart Agriculture Strategies” on	2021

			27.07.21 and 28.07.21 under APN Project.	
25	Dr RASA + 4 speakers	SINTEF OCEAN , NORWAY &	a workshop on “Sustainable Utilization of Water in Seafood Industry-Recycle and Reuse” under ReValue Project on 06.08.21	2021
26	5 Webinars	DU, IARI, ICARDA	‘Transforming Food Systems: Youth Innovation for Human and Planetary Health’	

Internationalization

1. Projects

4 Projects funded by DST, APN, RCN & European Union

S. No.	TITLE	PI	FUNDING AGENCY	BUDGET
1.	Building capacity to enhance farmer's capabilities to address the challenges of climate change using ClimateSmart Agriculture strategies	Dr. Nutan Kaushik	APN	Rs. 43.8 Lakhs
2.	OMEGA: Fish Oil Microencapsulation Generating fortified food products for improved human health	Dr. Nutan Kaushik	Norwegian Research Council (RCN)	400,000 NoK Nearly Rs. 32 Lakh
3.	Diversity of tomato seed borne endophytes and their applications for the promotion of plant growth and defense against pathogens (Tomendo)	Dr. Nutan Kaushik	DST	Rs. 23.4 Lakhs
4.	Revalue Innovative Technologies for Improving Resources Utilization in the Indo-European Fish Value Chain	Dr. Nutan Kaushik	DBT	Rs 97.6948 lakh
5.	Re-FOOD: International Partnership for Research and Education in energy efficient resource utilization in FOOD value chains between Norway and India	Dr. Nutan Kaushik	APN	Rs. 1.36 Crores

2. Faculty & Student Exchange

1. Visit of Dr. Nutan Kaushik to CBBC, Tunisia from March 2018 under Indo- Tunisia Project.
2. Visit of Dr. Maitri Thakur, Research Scientist & Ms. Guro Moen Tveit, Research Scientist from SINTEF OCEAN, Norway in Jan-Feb 2018
3. Visit of Dr. Naceur Djebali, Associate Professor and Dr. Mounawer Badri, Assistant Professor,

CBBC, Tunisia from 19.03.2018 to 25.03.2018

4. Visit of Miss Marzouk Takwa, Research Scholar, CBBC, Tunisia from 10.09.2018 to 10.12.2018
5. Prof. Lyn Abott, Senior Honorary Research Fellow UWA School of Agriculture and Environment, visited Amity University from July 18 to July 26, 2019 as part of MoU.
6. Visit of Dr. Naceur Djebali, Associate Professor and Dr. Saleem Elkahoui, Assistant Professor, CBBC, Tunisia from July 3 to July 9 2019 under Indo-Tunisia Project.
7. Dr. Azucena González Coloma, Senior Scientist, and Dr. Mari Fe, Scientist, CSIC, Spain, visited Amity University from July 7 to July 8, 2019 to participate in BIOCICON 2019.
8. Visit of Dr. Nutan Kaushik to CBBC, Tunisia from June 15 to June 22, 2019 under Indo-Tunisia Project.
9. Visit of Ms. Ayushi Sharma, JRF to CBBC, Tunisia from Jan 7 to March 7, 2019 under Indo-Tunisia Project.
10. Dr. Nutan kaushik, Ms Asha Kumari, Ms Khushboo and Ms. Seng visited SINTEF Ocean and NTNU Norway under Refood project from 15th September to 15th November 2019.
11. Two Ph.D students from Amity University are currently working on joint Ph.D at NPUST, Taiwan 2019
12. Ms. Ayushi Sharma, JRF, AFAF will visit CBBC Tunisia from 07.01.2019 to 07.03.2019 as part of student exchange programme under Indo-Tunisia Project.
13. JRF, AFAF under Inno Indigo Project will visit SINTEF Ocean, Norway in Feb 2019.
14. Ms. Sengolotha Marak, Ph.D student will visit NTNU, Taiwan from Feb-March 2019.
15. Ph.D student from NTNU, Norway visited Amity University in 2019.

Awards and Recognitions

1. Dr. Nutan Kaushik has been nominated as the advisor of India's oldest agri biologicals industry body "BioAgri Input Producers Association" – BIPA for the period of 2020-2022 on 4th Sept 2021.
2. Dr. Nutan Kaushik became member of the ACU Commonwealth Climate Resilience Network on 15.06.21
3. Dr. Abhishek Sharma received NESI Green Technology Award 2020 at 33rd Annual Meeting of NESI at Indian Agriculture Statistical Research Institute, PUSA, New Delhi on 30th January 2021.
4. Dr. Abhishek Sharma received the Best Poster Presentation Award and ranked First in National Conference on "Plant Health and Food Security: Challenges and Opportunities (March 25-27, 2021) organized by the Indian Phytopathological Society, ICAR, and IARI for the paper "Formulating Microbes for Sustainable Plant Disease Management.
5. Dr. Nutan Kaushik became member of the ACU Commonwealth Climate Resilience Network on 15.06.21.
6. Indo-US Research Professorship Award 2020 by American Society for Microbiology and Indo-US Science and Technology Forum to Dr. Abhishek Sharma.
7. DBT Indo-U.S. Genome Engineering/Editing Initiative (GETin) Overseas Fellowship 2020 to Dr. M. Jamsheer K.
8. INSA Young Scientist Medal 2020 to Dr. M. Jamsheer K.
9. Springer Best Oral Paper Award to Dr. Abhishek Sharma during an integrated workshop on "Publication Ethics and Patenting" and National Conference on the theme "Environmental Sustainability: Innovations, Translational Dimensions and Way Forward" from 10th to 12th February 2020.
10. Dr. Nutan Kaushik, Expert Member, BIRAC Committee (2017, 2018, 2019 and 2020)
11. Dr Nutan Kaushik, Expert member of BIRAC-BIG Agriculture Expert Group. (2020)
12. Dr. Nutan Kaushik, Member Technical Working Group of World Resources Institute India (WRI India). (2020)
13. Dr. Nutan Kauhsik, Expert, Task Force, DBT Bio-Care. (2020)

14. Dr. Nutan Kaushik and Dr. Ravinder Raina participated in AyuryogExpo wef 9th to 18th Dec 2020 as a 'Special Invitee'. (2020)
15. Dr. Ravinder Raina chaired a session on " Current trends in processing, value addition & waste utilization' during NAHEP-ICAR sponsored National Conference on "Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development" organized by Navsari Agriculture University, Navsari, Gujarat (February 27-29, 2020).
16. Dr. Ravinder Raina was the CHIEF GUEST in the valedictory session presided over by Honble Vice Chancellor of NAU, Navsari during NAHEP- ICAR sponsored National Conference on "Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development" organized by Navsari Agriculture University, Navsari, Gujarat (February 27- 29, 2020).
17. Dr. Ravinder Raina was Expert member in ICFRE (Indian Council of Forestry Research & Extension) assessment committee meeting for promoting scientists (Scientist F to G & D to E) in its meeting held on 26th June 2020
18. Dr. Nutan Kaushik's name has been approved by Russian Science Foundation ha as International Expert to review their projects and proposals. (2019)
19. Dr Nutan Kaushik served as DBT Biocare Task force member. (2019)
20. Dr. Nutan Kaushik served as member of BIRAC Agriculture Expert committee. (2019)
21. Dr. Nutan Kaushik was invited as Expert for the Curricula review of Agricultural Chemical by IARI, New New Delhi. (2019)
22. Dr Nutan Kaushik served as Guest Editor of Current Medicinal Chemistry. (2019)
23. Dr. Nutan Kaushik served as Guest Editor of Phytochemistry review. (2019)
24. Dr. Nutan Kaushik served as member of advisory committee of Biocicon conference organized by Amity University Raipur. (2019)
25. Dr. Jamsheer has been selected in the Early Career Reviewer Board of the Journal of Biological Chemistry (JBC) (2019)
26. Dr. Nutan Kaushik's name has been approved by Russian Science Foundation as International Expert to review their projects and proposals (2019).
27. Amity University was conferred with Agriculture Leadership Award 2019 for academic excellence in 9th Agriculture Leadership Awards 2019 by Shri Narendra Singh Tomar, Honorable Minister of Agriculture & Farmers Welfare and Minister of Rural Development ; HE Justice P. Sathasivam, Honorable Governor of Kerala; Shri Suresh Prabhu, Former Minister of Commerce & Industry and Civil Aviation ; and Dr. M.J. Khan, President, Agriculture Group Today.

28. Dr. R.S. Antil attended the meeting of the members of the Judges Panel to finalize the FAI Best Award for Excellence for the Best Work done in the field of Fertilizers Use Research on 4th November, 2019 in the office of ADG (S&WM), KAB-II, Pusa Campus, New Delhi
29. Dr. Abhishek Sharma received Young Scientist Award 2019 at National Conference on (ICIESSD-2019) organized by New Age Mobilisation, New Delhi and Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Uttar Pradesh during 20-21 April 2019.
30. Dr. Nutan Kaushik is Member of Expert Group on Eco-agriculture (2019).

1. Presentations/Invited talks in Conferences or Workshops

1. **Dr. Nutan Kaushik** gave an invited talk on “Endophytic biopesticides for sustainable agriculture” on 19th January 2021 and Co-chaired the session during the International Conference on “Advances in Agricultural and Food Sciences to Face the Challenges to Environment and Biosecurity” from 16–20 January, 2021 organized by Sharda University, G. Noida.
2. **Dr. Nutan Kaushik** participated in the 5-day training program on "Hands on sericulture" from 19 Feb 2021 to 23 Feb 2021 held at Amity University, Lucknow.
3. **Dr. Nutan Kaushik** gave a lecture on "Bioprospecting of plant microbialdiversity" organized by Prof. Pierluigi Caboni, University of Cagliari, Italy, on 3rd February 2021
4. **Dr. Manoj Kumar** participated in Two day “Workshop on Accelerated Data Science” Organised by IIT Khragpur, under the Aegis of National Supercomputing Mission from 20th to 21st February 2021.
5. **Dr. Manoj Kumar** delivered an invited lecture in Virtual symposium entitled ‘Plant Genetic Diversity and Molecular Breeding in the Genomics Era’ on 22nd February 2021
6. **Dr. Nutan Kaushik** had a meeting with Dr. R C Agrawal, Deputy Director General (Agricultural Education), Division of Education, ICAR, on 03.03.21 to discuss about the ICAR Accreditation.
7. **Dr. Nutan Kaushik** participated in Expert Review Committee meeting of BIRAC ” as Expert for online interaction of the BIPP supported project entitled “Scale Up, Bioefficacy & Toxicology study of developed mycoherbicides for control of Water hyacinth, Parthenium and Lantana weed” by A.G. Bio Systems Pvt. Ltd., Telangana on 24.05.21.
8. **Dr. Nutan Kaushik** participated in Eco Agriculture Revolution – Seminar & Awards 2021 organized by Agriculture Today Group Award on 21.05.21. She spoke on "Bio Inputs and Agro-Waste Management". She was also the member of jury & presented the awards.
9. **Dr. R.S. Antil** attended virtual meeting on “Technology transfer of MFPs based research technologies to VDVK” organized by TRIFED, Ministry of Tribal Affairs, New Delhi on May 8, 2021. Presented the Sal deoiled value added manure technology developed by Amity University, Noida.
10. **Dr. R.S. Antil** attended ASSOCHAM 2 nd Annual International Conclave “India Quantum Technology Conclave (IQTC-2021)” Unlocking the Potential of quantum for India on 25th May, 2021.
11. **Dr. Ravinder Raina** has been nominated as a Technical Expert by Quality council of India and assigned the work of preparing GAP-POP on Podophyllum hexandrum 2021.
12. **Dr. Nutan Kaushik** presented progress of work during REVALUE Project Meeting on 29.06.21

13. **Dr. Nutan Kaushik** attended University IQAC Meeting on 26.06.21 & 28.06.21
14. **Dr. Nutan Kaushik** attended Ph.D interviews of Agriculture on 24.06.21
15. **Dr. Nutan Kaushik** conducted NTCC Viva of AIHSR student on 22.06.21
16. **Dr. Nutan Kaushik** delivered a keynote address on the Inauguration of Yoga Diwas 2021 organized by Eat Right India, an initiative by FSSAI on 21.06.21
17. **Dr. Nutan Kaushik** organized oral defence of Mr. Ankit Pandey, Ph.D scholar on June 19, 2021.
18. **Dr. Nutan Kaushik** participated in OMEGA Project Meeting on 15.06.21 and presented the work.
19. **Dr. Nutan Kaushik** conducted recruitment interviews of students with M/S Suri Agro Fresh for placement on 15.06.21
20. **Dr. Nutan Kaushik** conducted DRC Meeting of AIHSR on 11.06.21
21. **Dr. Nutan Kaushik** was engaged in Super Proctor duty throughout June 2021.
22. **Dr. R.S. Antil** submitted SPR of Ph.D scholar Mr. Hamid to DRC Chairman on June 9, 2021.
23. **Dr. R.S. Antil** submitted Synopsis and SPR of Ph.D scholar Mr. Man Mohan to DRC chairman on June 10, 2021.
24. **Dr. R.S. Antil** submitted SPR of Ph.D scholar Mr. Rakesh Kumar to DRC chairman on June 11, 2021
25. **Dr. Ravinder Raina** gave an invited lecture titled 'Post Covid-19 Opportunities in Himalayan Medicinal Plants' on 4th June 2021 during NMPB sponsored virtual National Training Programme on "Medicinal and Aromatic Plants Diversity, Utilization and their Conservation" organized at UBKV, Cooch Behar, WB" (1st to 10th June, 2021)
26. **Dr. Ravinder Raina** gave an invited Lecture titled "Ensuring Quality Botanicals Through Good Agricultural Practices" delivered on 10th June 2021 during ICAR-NAHEP sponsored Online Training on "Recent Trends in Collection, Processing and Value Addition of Few Important MAPs", organized by Navsari Agriculture University, Navsari, Gujarat.(June 7-10, 2021
27. **Dr. Nutan Kaushik** attended a webinar on "Building a strong science & technology foundation for a robust innovation ecosystem" by Dr. Renu Swarup on 03.08.21
28. **Dr. Nutan Kaushik** participated in "*Champions 12.3 for Reducing Food Loss and Waste for Sustainable Food Systems in India*" organized by WRI India on 18.08.21.
29. **Dr. Nutan Kaushik** and Dr. R.S. Antil attended a webinar by Dr. P. Padmanabhan on 5th Prof. M. Vijayan Lecture on 28.08.21
30. **Dr. R.S. Antil** presented the progress report of project funded by TRIFED before Expert Committee (PSMC) on Aug. 9, 2021.

31. **Dr. R.S. Antil** was invited as Guest speaker and delivered a webinar entitled, "Integrated nutrient management for sustainable crop production - Limitations and future strategies" on Aug. 6, 2021 from 3:00 to 4:00 PM organized by Agricultureinformation.co
32. **Dr. Abhishek Sharma** participated as speaker in 1st Asian PGPR Indonesia Chapter International Conference Sustainable Agriculture and Ecotourism on 28-30th August 2021
33. **Dr. Nutan Kaushik** delivered a talk "Sustainable Agricultural Practices for Pest & Disease Management" on 13th February 2021 during APN workshop.
34. **Dr. Nutan Kaushik** delivered a invited talk on "Why do we get variable efficacy with medicinal plant extracts?", organized by BIRAC -BIONEST Organogenik Biotech on 7th October 2020
35. **Dr. Nutan Kaushik** delivered a talk "Co-products from Indian Fish Processing Industry Reveals their Suitability for Production of Value Added Products" on 2nd March 2020 in 71st Pacific Fisheries Technologist Conference, Long Beach , California, USA
36. **Dr. Nutan Kaushik** gave an invited talk on "Valorization of Waste of Food Processing Industry" on 30.01.20 in the online faculty development programme organized by DBT.
37. **Dr. Nutan Kaushik** delivered a invited talk on " Endophytic Fungi for Sustainable Agriculture" on 5th August 2020 organized by Abhav Trust, Bilaspur Chattisgarh.
38. **Dr. Nutan Kaushik** delivered a invited talk on Bioprospecting and Quality Control of Medicinal Plants on 16.12.20 during AyuryogExpo 9th to 18th December 2020.
39. **Dr. Ravinder Raina** participated in NAHEP-ICAR sponsored National Conference on "Utilization and Conservation of Non- Timber Forest Genetic Resources for Sustainable Development" organized by Navsari Agriculture University, Navsari, Gujarat (February 27-29, 2020).
40. **Dr. Abhishek Sharm** gave an Invited lecture on "Utilization of agro- industrial waste to develop the formulation of *Purpureocillium lilacinum*" against root-knot nematodes" at International conference on "Environmental Sustainability: Innovations, Translational Dimensions and Way Forward" at Department of Environmental Science, BBA University, Lucknow held from 10th to 12th February 2020 pg no. 18-19.
41. **Dr. M Jamsheer K** delivered a webinar on CRISPR-Cas on 10th October 2020 in the 5-day virtual lecture workshop 'Unravelling Plant Metabolite Diversity Using Multiomic Technologies' conducted by TDU Bengaluru
42. **Dr. Manoj Kumar** participated as resource person in Virtual lecture workshop on 'UNRAVELLING PLANT METABOLITE DIVERSITY USING MULTIOMIC TECHNOLOGIES' from 7th to 12th October 2020 organized by The University of Trans-Disciplinary Health Sciences and Technology (TDU) Bengaluru
43. **Dr. Ravinder Raina** participated in panel discussion on "Himalayan Medicinal Plants- Concerns & Potential" throughZoom platform organized by Ayuryog organisation. Other

panelists included CEO NMPB, Director HFRI, representatives of pharma industries, NGOs, Govt Development agencies, IFS officers etc. The webinar had about 1000 registrations.(2020)

44. **Dr. Ravinder Raina** delivered talk through GoogleMeet on Himalayan Medicinal Plants organized by Abhav Trust, Bilaspur Chattisgarh (26th August 2020).
45. **Dr. Ravinder Raina** delivered invited lecture ‘Sustainable utilization of ecologically threatened temperate Himalayan medicinal plants–the way forward’ during ICAR (NAHEP) -UBKV, Cooch Behar National Seminar on “Biodiversity Conservation and Management for Ecosystem Services and Climate Change Mitigation” on 15th October, 2020.
46. **Dr. Ravinder Raina** delivered a Panel Member Lecture on “Cultivation of Himalayan Medicinal Plants” during AyuryogExpo w.e.f. 9th to 18th December 2020.
47. **Dr. R.S. Antil** delivered Dr. N. S. Randhawa Memorial Lecture on “Integrated nutrient management for sustainable soil health and crop productivity in Indian agriculture” at CCS HAU Hisar as per the invitation of Indian Society of Soil Science on Sept. 21, 2019.
48. **Dr. Nutan Kaushik** gave presentation on “Fall ARMYWORM (*Spodoptera frugiperda*) IN INDIA” in Mynamar during Fall armyworm Workshop.2019
49. **Dr. Nutan Kaushik** gave a lecture on "New Discoveries in Crop Protection Agrochemicals at ICAR, New Delhi on November 15, 2019
50. **Dr. Nutan Kaushik** delivered a lecture on ‘**Expert Consultation on Metabolomics: Exploring the System Biology Approach in Agricultural Science**’ organized by ICAR on 8th July 2019 at NASC Complex, New Delhi.
51. **Dr. Nutan Kaushik** delivered a talk on “Leveraging Agricultural Technology to Increase Farm Production” at 8th Agrochemicals Conference 2019 organized by FICCI held on Tuesday, 16th July 2019 at Hotel Taj Man Singh, New Delhi.
52. **Dr. Ravinder Raina** participated as Invited Panelist during brainstorming meeting on “Setting up of National network on documentation of Local Health Traditions & Ethnomedical Practices and formulation of a National Strategy for their validation & IPR protection” organized by Central Council of Research in Ayurvedic Sciences (Ministry of Ayush, GOI) at NASC complex, IARI, New Delhi (14th August 2019).
53. **Dr. Ravinder Raina** participated as Invited resource person during One week refresher training course for Indian Forest Service Officers on “Conservation and Development of Medicinal Plants and benefit sharing with local communities” organized by ICFRE- Himalayan Forest Research Institute, Shimla (30th August 2019).
54. Following presentations were given by Amitians during IPCC 2019 at Hyderabad:
 - **Dr. Nutan kauhsik**: Endophytic microbes and their metabolites for crop protection.
 - **Dr Neetu Singh** "Performance of dual application of endophytes *Trichoderma harzianum* and *Glomus etunicatum* as root protectant against *Meloidogyne graminicola*"
 - **Ayushi Sharma** "Bio-control activity of endophytic *Bacillus* strain against pathogenic fungi"
 - **Dr. Abhishek Sharma** "A novel bioformulation of *Purpureocillium lilacinum* to manage root-knot nematodes"

55. Presentations were given by Amityians during 3rd Re-food Indo-Norwegian symposium on 3rd December at Kolkata:
- **Dr. Nutan kaushik**
 - **Dr Shweta**
 - **Dr. Rama**
 - **Ms. Asha.**
 - **Ms. Khushboo**
 - **Ms. Seng**
56. **Ayushi Sharma** gave a presentation “**Antifungal Activity of Endophytic Bacteria Isolated from Tomato Seeds**” in ICPPH 2019 at Bangalore
57. **Dr. Abhishek Sharma** gave a presentation on “Use of Soilless Media and Organic Amendments for Raising Healthy Nursery” by Ambuj Bhardwaj*, Dr. Abhishek Sharma and Dr. Vijay Bhardwaj at 1ST INTERNATIONAL CONFERENCE ON ENVIRONMENT AND SOCIETY (ICES 2019) THEME: SOCIO-ECONOMIC CHALLENGES OF AGRICULTURE, BIODIVERSITY & ENVIRONMENT held on December 22nd & 23rd, 2019, Kanpur (India) pp 205.
58. **Dr. Abhishek Sharma** gave a presentation on “Sustainable ecofriendly raising of healthy tomato and brinjal nursery” by Ambuj Bhardwaj*, Dr. Abhishek Sharma and Dr. Vijay Bhardwaj at Progressive Horticulture Enclave (PHE)-2019 on Futuristic Technologies in Horticulture held on December 8-10, 2019, Lucknow (India) pp 35.
59. **Dr. Ravinder Raina** attended the assessment committee meeting for ICFRE scientists at Dehradun on 20th December 2019.
60. **Dr. R.S. Antil** attended the meeting of the members of the Judges Panel to finalize the FAI Best Award for Excellence for the Best Work done in the field of Fertilizers Use Research on 4th November, 2019 in the office of ADG (S&WM), KAB-II, Pusa Campus, New Delhi.
61. **Dr. R.S. Antil** delivered specialized lecture on “Managing Fertilizer to Enhance Soil Health” in Farmers Training Programme on World Soil Day Celebration” on Dec. 16, 2019 organized by AUUP Noida, KVK Gautam Buddha Nagar and Kribhco at KVK Gautam Buddha Nagar.
62. **Dr. B.S. Hansra** attended Career Advancement Scheme Selection Committee meeting for ICAR scientist nominated as outside Expert Member of the Selection Committee on 09.12.2019 as DG, ICAR nominee
63. **Dr. Nutan Kaushik** gave a lecture on "New Discoveries in Crop Protection Agrochemicals at ICAR, New Delhi on November 15, 2019.
64. **Dr. Nutan Kaushik** participated in 108th Double Tenth Day Reception at Taipei Economic and Cultural Center in India on October 9, 2019.
65. **Dr. Nutan Kaushik** participated in National Day of Spain, Embassy of Spain on October 16, 2019
66. **Dr. Nutan Kaushik** participated in Amity Convocation at Kolkata from 30th October to 1st November 2019.
67. **Dr. Nutan Kaushik** participated in Annual Meeting at SINTEF OCEAN, Norway 2019.

68. **Dr. Nutan Kaushik** participated in Revalue Open Day: Challenges and trends related to improved resource utilization in food value chains.
69. **Dr. Nutan Kaushik** and **Dr. Abhishek Sharma** attended a One-day summit organized by the UN Environment Program on 10th September 2019 at Dr. Ambedkar International Centre, Janpath, New Delhi.
70. **Dr. B.S. Hansra** participated in “Innovation Summit & Exhibition on 10 – 11 Sept, 2019” organized by UNI and UN Environment Program.(attended only on 10.09.2019).
71. **Dr. Nutan Kaushik** had a meeting with Dr. Kadambotte Siddique of UWA on 10.09.2019 to discuss about joint submission of proposal.
72. **Dr. Nutan Kaushik** visited Norway from 15.09.2019 to 25.09.2019 as part of research programme under the projects.
73. **Dr. Nutan Kaushik** participated in the brainstorming session of Prof. Liz Maw of Presidio on 27.09.2019.
74. **Dr. Nutan Kaushik** participated in various events at UNCCD, Greater Noida Expo, from 04.09.2019 to 11.09.2019.
75. On 26.08.2019, **Dr. Nutan Kaushik** participated in the seminar “Trade and Investment Opportunities between Chile & India” organized by Embassy of Chile, New Delhi.
76. **Dr. Abhishek Sharma** attended National Workshop on Agriculture Sustainability Indicators: Methods and Weight determinants held on 31st August, 2019 at F1 Seminar Hall, Amity University.
77. **Dr. Nutan Kaushik & Dr. Abhishek Sharma** attended 9th Agriculture Leadership Conclave 2019 held on 11 July, 2019 at Hotel Taj Palace, New Delhi.
78. **Dr. B.S. Hansra** attended Project Monitoring Committee meeting to review Projects of DBT for Aspiration District at NABI, Mohali (PB) on 12.07.2019 as a member of the Committee.
79. **Dr. Nutan Kaushik** participated as DBT Biocare Task Force member on 25th and 26th July 2019.
80. **Dr. R.S. Antil** participated in Pre-Proposal Conference organized by NITI AAYOG on 20th May 2019 at 14:00 hrs related to Proposals for Consultancy for Evaluation of Centrally Sponsored Schemes in Package 1 - Agriculture, Animal Husbandry and Fisheries Sector.
81. **Dr. M Jamsheer K** attended a 5-day workshop (27th to 31st May 2019) on genome editing in plants under the GETin program at Delhi University, South Campus.
82. **Dr. Nutan Kaushik** participated in ITALIAN RESEARCH DAY in New Delhi on 15th April 2019.
83. **Dr. Nutan Kaushik** attended a lecture at Shriram Institute, New Delhi on 24th April 2019.
84. **Dr. Abhishek Sharma and Dr. Sancharini Das** participated in Faculty development Program on "Application of nanotechnology in agriculture and food industry" at Amity University Uttar Pradesh along with Poster presentation.

85. **Dr. Nutan Kaushik** participated in the 6th Annual Conference of the India Section of AOAC INTERNATIONAL with the theme "towards collaborative leadership to ensure Food Safety" at the Hotel "The Park", New Delhi on February 28 - March 1, 2019.
86. **Dr. Nutan Kaushik** participated in BIOCICON 2019 Conference at Amity University, Raipur on 6th-7th March 2019. She chaired the session and delivered a keynote address on "Bioprospecting of plant and microbial diversity for biopesticidal properties".
87. **Dr. Nutan Kaushik** participated in the BioCARE Conclave on 8th and 9th March, 2019 New Delhi.
88. **Dr. Ravinder Raina** attended and delivered an Invited lecture during the "National Conference of Stakeholders on conservation, Cultivation, Resource Development and Sustainable Utilization of Medicinal Plants of North Eastern India" from March 6-7, 2019 at Nagaland University, Lumami, Nagaland.
89. **Dr. B.S. Hansra** attended "National conference on Future of Cold Chain Infrastructure in India", on March 1, 2019 at: PHD House, New Delhi. Was nominated by the Vice Chancellor, AUUP.
90. **Dr. B.S. Hansra** was invited as a Guest of Honour in a session on "Innovative Farmer Meet" on 07.03.2019 at the Annual "Pusa Krishi Vigyan Mela 2019" at ICAR – IARI, Pusa, New Delhi.
91. **Dr. B.S. Hansra** participated in 33rd meeting of the School Board on 15.03.2019 the School of Agriculture, IGNOU as a member of the school Board.
92. **Dr. Manoj Kumar** attended a one-week Faculty Development program 'Machine learning and IoT' from 11-03-2019 to 15-03-2019 at NIT, Raipur.
93. **Dr. Md. Jamsheer K** attended the DBT-ICGEB-BIF workshop on "Application of Artificial Intelligence in Modern Biology from 28-03-2019 to 29-03-2019 at ICGEB, New Delhi.
94. **Dr. Abhishek Sharma** attended a lecture titled 'The Myths of Organic Farming', on March 8 2019 delivered by Mr. Udayan Arya, Founder & CEO of M/S Smur Agro Ventures.
95. **Dr. R.S. Antil** delivered specialized lecture on "Nutrient management in wheat" in Farmers Training Programme on "Production & Protection Technology on Wheat and Mustard" on 28th March, 2019 organized by ICAR- Indian Institute of Wheat & Barley Research, Karnal; DRMR, Bhartpur; National Bank for Agriculture and Rural Development, Lucknow and Amity Centre for Agricultural Extension Services at Amity University, Noida.
96. Visit to Embassy of Netherlands for Reception Dinner on 7th Jan 2019 by **Dr. Nutan Kaushik** for exploring opportunities of possible collaboration.
97. Visit to Gadre Marine Exporters Pvt. Ltd. From 8th to 10th Jan 2019 under Inno-Indigo Project by **Dr. Nutan Kaushik** to understand the process of surimi manufacturing and also to see the waste material generated during the process including wash water.
98. Meeting of the Sub-committee of 124th Technical Expert Committee – BIRAC attended by **Dr. Nutan Kaushik** on 16th January 2019.

99. As part of Amity delegation **Dr. Ravinder Raina** visited Patanjali Yoghpeeth (8th to 10th Jan 2019). Interacted with the scientists/ officials. Concept proposal for starting joint MSC Horticulture (Medicinal Plants) with Patanjali Yoghpeeth submitted to DG, AFAF for taking up further with the university authorities.
100. **Dr. B.S. Hansra** was invited to deliver lecture on Jan, 08, 2019 in the ICAR Winter School, Division of Agri. Extension, IARI, New Delhi. Lecture entitled “Approaches for Training Need Assessment and developed of reusable Learning objectives”.
101. **Dr. Nutan Kaushik** gave a presentation “Rest raw material in India: challenges and opportunities” in Revalue Open Day: Challenges and trends related to improved resource utilization in food value chains on 15th September 2018.
102. **Dr. Nutan Kaushik** participated in Mini symposium titled “The plant microbiome: a key determinant of plant health and productivity” at the CBBC organized in collaboration with the Tunisian Association of Genetic Resources (TAGR) and Amity University on 13th March 2018 and gave a presentation on “Endophytic microbes for plant health”

2. Poster presentations:

S.No.	Topic	Participant name	Presented in	Date
1.	Poster on Endophytes for Food Safety	Ayushi Sharma and Dr. Nutan Kaushik	Amity Conference of Food Scientists and Technologists-AMIFOST-2018	2018
2.	Poster on “Challenges in Microbiological Food Safety in the Fish processing Industry”	Asha Kumari, Dr. Nutan Kaushik, Rasa Slizyte and Khushboo	6 th Annual conference, India Chapter of AOAC International	28/02/2019-01/03/2019
3.	Poster on “Food Fraud in Fishery Sector”	Khushboo, Dr. Nutan Kaushik, Kristina Norne Widll Soumaya Singh and Asha Kumari	6 th Annual conference, India Chapter of AOAC International	28/02/2019-01/03/2019
4.	Poster on “Bio-conversion of Fish Industry Rest Raw Materials into Bio-fertilizer	Asha Kumari, Dr. Nutan Kaushik, Rasa Slizyte, Sancharini Das and Khushboo	Indo-Tunisia Mini-symposium “Microbes for sustainable agriculture”.	05/07/2019
5.	Poster on “Process for removal of soluble protein from meat and seafood industry wash water and utilization of precipitated protein”	Khushboo, Dr. Nutan Kaushik, Asha Kumari, Sancharini Das	Amity Innovation Day- 2019	15/10/2019

6.	Poster on “Fish Collagen –Potential application as functional food”	Khushboo, Dr. Nutan Kaushik, Asha Kumari, Sancharini Das	Amity Conference of Food Scientists and Technologists-AMIFOST-2019 (3rd National Conference)	18/12/2019
7.	Poster on Endophytic Bacteria: “Microbes for Sustainable Agriculture”	Ayushi Sharma and Dr. Nutan Kaushik	Indo-Tunisia Mini-symposium “Microbes for sustainable agriculture”.	05/07/2019
8.	Poster on essential oils	Dr. Abhishek Sharma	Indo-Tunisia Mini-symposium “Microbes for sustainable agriculture”.	05/07/2019

Infrastructure Added

1. A state-of-the-art analytical facility has been developed by Dr. Nutan Kaushik under various projects. The lab has sophisticated high-end analytical instruments viz., GC-MS and HPLC worth Rs. 55 Lakhs. GC-MS was installed during 2020. The lab can analyze primary metabolites, flavors, fragrances, fatty acids, pesticides, pollutants, amino acids, microbial metabolites, phytometabolites and volatiles with precision.
2. Established fish processing waste valorization lab (2019).
3. Established lab on endophyte (2018).
4. High Performance Liquid Chromatograph (HPLC) worth Rs. 25 lakhs procured under Inno-Indigo Project (2018).

Annexure 12

PROPOSAL SUBMITTED

S.No	Project Title	PI & Co-PI	Inst & Univ	Funding agency and Proposed Project cost (Rs lakhs)	Budget	External Collaborator	Year of Submission
1	Indo- Russia Project titled “Isolation of endophytes from wild and cultivated varieties of potato for control of economically important pathogens of potato (Potendo)”	Dr. Nutan Kaushk	AFAF	DST	Rs 16964000	NIL	2018
2	Indo-Danish Project titled “Monitoring and Novel Nano-technological Approach for Treatment of Phthalates in Common Effluent Treatment Plants (CETPs) in Ganga Basin”	Dr. Nutan Kaushik	AFAF	DBT	Rs 2,99,74,160	NIL	2018
3	Identification of biomarkers and assessment of impact of heat stress on metabolic pathway in lactating dairy cows using metabolomic and transcriptomic approach	Dr. Nutan Kaushik	AFAF	NASF (ICAR)	Rs 4,75,00,000	NIL	2018
4	Trait discovery, molecular mapping and MAS in EMS induced mutants of Nagina 22 for yield, biotic and abiotic stress tolerance	Dr. Manoj Kumar	AFAF	NASF (IARI)	Rs12,50,00,000	NIL	2018
5	Phytoremediation mediated water quality improvement of perennial Barog- Kotla	Dr. Ravinder Raina	AFAF	NMHS	Rs.2,59,00,000	NIL	2018
6	Expression of Interest for Empanelment of Consultancy Organization to undertake a detailed study cum survey to assess the demand and supply of medicinal plants and their raw material at national and international perspective	Dr. Ravinder Raina	AFAF	NMPB	Rs. 1,89,00,000	NIL	2018

7	Fungal endophytes as source of biological products for resilient agriculture	Dr. Nutan Kaushik	AFAF	Indo Spanish	Rs. 2,50,76980	NIL	2018
8	“Building capacity to enhance farmer's capabilities to address the challenges of climate change using Climate Smart Agriculture strategies”	Dr. Manoj Kumar	AFAF	APN	USD 60,000	NIL	2018
9	‘Promotion of high value commercial cultivation and value addition of German chamomile (<i>Matricaria chamomilla</i>) amongst the farmers of Gautam Budh Nagar, UP for diversification of agriculture and improved economic returns’	Dr. Ravinder Raina	AFAF	UPCAR	Rs 24,00,000	NIL	2018
10	‘Mapping and development of strategies for managing Fusarium wilt of banana (TR4) in eastern plain zone of Uttar Pradesh (District: Faizabad and Barabanki)’	Dr. Abhishek Sharma	AFAF	UPCAR	Rs 24,00,000	NIL	2018
11	"To Study the Role of pasture chicken farm for mango mealy bug (<i>Drosicha mangiferae</i>) Control in Dasheri Mango Orchards "	Dr. Rachana Jain	AFAF	UPCAR	Rs 24,00,000	NIL	2018
12	Fusarium toxins in maize: Prediction and Biocontrol	Dr. Abhishek Sharma	AFAF	DST	Travel Grant	NIL	2018
13	Raising of mix seed population and investigating reproductive barriers for successful conservation of critically endangered endemic temperate medicinal aromatic <i>Nardostachys grandiflora</i>	Dr. Ravinder Raina	AFAF		USD 25,000	NIL	2018
14	Improvement of large cardamom cultivation in Sikkim through bio-pesticide based approach	Dr. Sancharini Das	AFAF	IFFCO	Rs. 15,18,000	NIL	2018
15	Setting Up & Managing Agribusiness Enterprise Development And Promotion Facility (EDPF) Under Apart Project Development Objective (PDO)	Dr. Abhishek Sharma	AFAF	ARIAS, Govt. of Assam		NIL	2018
16	Biotech-Krishi Innovation Science Application Network (Biotech-Kisan) for Trans-Gangetic Plains region (zone VI) of the country	Dr. Ravinder Raina and Dr. Abhishek Sharma	AFAF	DBT	Rs 1,39,00,000	NIL	2018

17	“Identification and evaluation of potential anti-aging compounds from medicinal plants traded as nutraceuticals and its molecular characterization”	PI: Dr. Manoj Kumar; Co-PIs: Dr. Ravinder Raina and Dr. Nutan Kaushik	AFAF	ICMR EMR	Rs. 54 lakh		2019
18	EoI titled “Capacity Building Support to PG, Intermediary Institutions of Farmer Producer Company under MKSP”	Dr. Nutan Kaushik Dr. Ravinder Raina	AFAF	Jharkhand State Livelihood Promotion Society, Ranchi	Rs. 500 lakh		2019
19	Leveraging genetic resources for accelerated genetic improvement of Linseed using comprehensive genomics and phenotyping approach	Dr. Nutan Kaushik	AFAF	DBT	Rs. 127.88 lakhs		2019
20	Boosting plant growth and plant metabolites by customized light in controlled-environmental conditions	Dr. Nutan Kaushik	AFAF	IGSTC	Rs. 180 lakhs		2019
21	Proposal on Shaping root architecture under nutrient starvation-phosphate sensing and systemic Target of Rapamycin signaling to CEFIPRA	Indian Co-PI- Dr.a	AFAF	NIPGR	Rs. 37.50 lakh		2019
22	“Developing low cost potassic fertilizer by using municipal solid waste and waste mica”	Co- PI - Dr. R.S. Antil	AFAF	BIRAC			2019
23	“Developing hydro and aeroponics based growth model for organic and sustainable production of some commercially important direct to use medicinal plants”	PI- Dr. Ravinder Raina	AFAF	NMPB	Rs. 73.41 lakh		2019
24	Exploration of mechanisms involved in accelerated bioremediation of polluted pesticide soil by native microbial formulation and organic amendments (Biogas slurry and non-edible oil cakes)”	Dr. Abhishek Sharma	AFAF	NASF-ICAR and IARI	Rs. 250 lakh		2019
25	“Mutant Resources for Basic and Applied Research: Trait discovery and application”	Dr. Manoj Kumar	AFAF	NASF-ICAR and IARI	Rs. 1337 lakh		2019

26	Shrim Shell waste valorisation for the production of antimicrobial peptide and heavy metal absorbent chitin nanofiber (BT/PR32092/BCE/8/1514/2019)	Project Coordinator- Dr. Sancharini Das	AFAF	DBT	Rs. 61,50010.00		2019
27	Developing hydroponics based growth model for organic and sustainable production of direct to use medicinal herbs Ocimum basilicum, Centella asiatica and Stevia rebaudiana	PI- Dr. Ravinder Raina Co-PI- Dr. Nutan Kaushik	AFAF	DST, GOI	Rs. 45.70 lakh + Rs. 15.35 lakh	Sheel Biotech	2019
28	Application of chitosan from prawn waste for growth and defense of brinjal and tomato crops	PI- Dr. Sancharini Das Co-PI- Dr. Abhishek Sharma Mentor- Dr.Nutan Kaushik	AFAF	SEED	Rs.4261970.00		2019
29	Endophyte-mediated control of Fusarium wilt and investigating the mechanism thereof in chickpea (<i>Cicer arietinum</i> L.)	PI- Dr. Abhishek Sharma	AFAF	DST-SERB	Rs. 32.20 lakh		2019
30	Process development for chitin isolation from prawn wastes using malic acid and protease producing bacteria	PI- Dr. Sancharini Das	AFAF		Rs. 29,98,260		2019
31	ICGEB-Collaborative Research Programme 2019	Dr. M Jamsheer K	AFAF	DBT/ICGEB	Euro 74500		2019
32	Building capacity to enhance farmer's capabilities to address the challenges of climate change using Climate Smart Agriculture strategies	PI- Dr. Nutan Kaushik	AFAF	APN	USD 60,000		2019
33	Expression of Interest for GP (Gram Panchayat) level Crop Yield Estimation Using Technology	Dr. Mahesh Kadam Project Coordinator - Dr. Nutan Kaushik	AFAF	MNCFC	Rs. 68,20,000		2019
34	"Economic Empowerment of rural populations of North East region of India through Cultivation and value addition of <i>Tagetes minuta</i> , a commercially important aromatic plant"	Dr. Ravinder Raina-PI	AFAF	DBT	Rs. 2,19,67,400/-		2019

35	“Chemical characterization, shelf life studies, and greenhouse testing of Bacillus siamensis formulation for management of fungal diseases of Tomato”	Dr. Nutan Kaushik-PI	AFAF	BIRAC under PACE Program	Rs. 48,00,000		2019
36	‘Development of a modular CRISPR/Cas platform for functional genomics and fast precision breeding in rice’	Dr. Manoj Kumar-PI Dr. M Jamsheer K - Co-Pi	AFAF	DBT	Rs. 49,00,000		2019
37	Workshop on CRISPR-Cas: Basics to Designing and Developing Gene Editing tools’	PIs: Prof. B.C.Das, Dr. Nutan Kaushik, Dr. Manoj Kumar, Dr. Dhruv Kumar, Dr. Pallavi Agarwal and Dr. Muhammed Jamsheer K.	AFAF	DBT	Rs. 12,00,000		2019
38	Engagement of an Agency / Organization for Impact Evaluation of Centrally Sponsored Schemes (CSS) National Horticulture Mission (NHM) and Horticulture Mission for North East and Himalayan States (HMNEH)	Dr. R.S. Antil	AFAF	Department of Agriculture Ministry of Agriculture & Farmers Welfare			2019
39	Expression of Interest for Hiring Technical Support Agency for Developing and Executing Sustainable Model for SHG Members in Horticulture Activities and Developing the Entire Value Chain to Assam State	Dr. R.S. Antil	AFAF	Rural Livelihoods Mission, Guwahati, Assam.			2019
40	Landscape and Ecosystem Service Restoration through Agroforestry	Agriculture Team	AFAF	Imperial Tobacco Company (ITC) of India	Rs. 51,00,000		2019
41	Study of status of Food Safety in Delhi NCR and Punjab, India		AFAF	Indo-Global Social Service Society (IGSSS)	Rs. 25,00,000		2019
42	“TOROUT- Utilization of Target of Rupamycin pathway for developing a GMO-free RNA in control strategy of poyphagun part Fall Armyworm (Spopoptara fugiperda)	Dr. Jamsheer	AFAF	DBT-IYBA	Rs. 60 lakhs		2019

43	Exploration of Heat and Cytokinin Signaling Interaction for Enhancing Thermomemory in Plant	Dr. Jamsheer	AFAF	DST Indo-Czech Scheme	Rs. 1.50 crore		2019
44	“Synthesis and risk assessment of iron oxide linked solid lipid nanoparticles embedded with essential oils to manage Fusarium wilt in Chickpea”	Dr. Abhishek Sharma	AFAF	DST-Nanomission	1.51 crore		2019
45	‘Dissecting the phosphate and TOR-AMPKregulatory networks in fission yeast’	PI: Dr. Jamsheer Co-PI: Dr.Manoj Kumar	AFAF	Wellcome Trust DBT India Alliance	Rs. 1.70 crore		2019
46	“Economic Empowerment of rural populations of North East region of India through Cultivation and value addition of Tagetes minuta, a commercially important aromatic plant”	Dr. Ravinder Raina	AFAF	DBT-GoI	Rs. 2 crore		2019
47	EOI for Impact cum Concurrent Evaluation Study of Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RKVY-RAFTAAR)	Dr. R.S. Antil	AFAF	Ministry of Agriculture and Farmers Welfare, Department of Agriculture, Cooperation and farmers Welfare, RKVY Division, New Delhi			2019
48	Empanelment of Consultants and Consulting Companies	Dr. R.S. Antil	AFAF	Charities Aid Foundation (CAF) India			2019
49	RFP for Evaluation and Impact Assessment Study for two components viz. ATMA & AC&ABC of Sub-Mission on Agricultural Extension (SMAE) for 2017-18 to 2019-20	Dr. R.S. Antil	AFAF	Ministry of Agriculture and Farmers Welfare, Department of Agriculture, Cooperation and farmers Welfare, RKVY Division, New Delhi			2019
50	“Understanding dynamism of number of seeds and fruit surface ridges in Elaeocarpus ganitrus, endangered tree species with medicinal properties”	Dr. Ravinder Raina (PI)	AFAF	The Jack Kimmel International Grant Program, Toronto	USD 10,000		2019

51	EOI for Engagement of Research Institutions/ Universities Etc. as a regional cum Facilitation Centre (Western Region)	Dr. Ravinder Raina (Overall Coordinator)	AFAF	NMPB, New Delhi	Rs. 2.15 crore		2019
52	'Identification and introgression of climate resilient natural variation(s) from Indian rice germplasm for sustainable agriculture and food security in India'	Dr. Manoj Kumar - PI Dr. M. Jamsheer - Co-PI	AFAF	STRIDE, UGC	Rs. 5 crore		2019
53	"Exploration of mechanisms involved in accelerated bioremediation of pesticide polluted soil by native microbial formulation and organic amendments (Biogas slurry and non-edible oil cakes)"	Dr. Abhishek Sharma	AFAF	DST-SUPRA	Total Budget: Rs. 1.72 Cr. Amity Budget: Rs. 46 Lakh		2019
54	'Workshop on CRISPR-Cas: Basics to Designing and Developing Gene Editing tools'	Dr. Manoj Kr. & Dr. M. Jamsheer	AFAF	DBT	Rs. 11.70 lakhs		2019
55	NanoOpt - Optimizing microalgae biomass production using nanotechnological materials	Dr. Nutan Kaushik Dr. M. Jamsheer K (Co-PI)	AFAF	DST Indo-Norway Scheme	Rs. 75 lakhs		2019
56	Application of Inducible CRISPR Cas System for Studying the Factors Regulating Root System Plasticity During Nutrient Starvation in Rice	Dr. M. Jamsheer K	AFAF	DBT-GETin	Rs. 20 lakhs		2019
57	Developing fast and efficient breeding approach to develop new climate resilient rice varieties for sustainable food security in India and Bangladesh	Dr. Manoj Kumar Dr. M. Jamsheer K (Co-PI)	AFAF	APN-CRRP2019	Rs. 1.10 crore		2019
58	Economic Empowerment of rural populations of North East region of India through Cultivation and value addition of Tagetes minuta, a commercially important aromatic plant	PI- Dr. Ravinder Raina, AUUP, Dr. Tara Singh Mehra, CAU, Pasighat- Dr. Kamal Mohapatra ICAR Reg. Centre for NEH Region, Umiam Meghalaya Co-PI: Dr. Nutan Kaushik, Dr.	AFAF	DBT	Rs. 1.19 crore		2019

		Harsha Kharakwal,					
59	Screening and characterization of plant cyclotides for the insecticidal activity and development of their formulation	Dr. Nutan Kaushik and Dr. Sancharini Das	AFAF	CRG-DST (SERB)	Rs. 58,62,510/-		2019
60	LightBoost Boosting plant growth and plant metabolites by customized light in controlled-environmental conditions	Dr. Nutan Kaushik (PI)	AFAF	IGSTC	Rs 180L	Fraunhofer, IME; Easy Tech Germany; and Sheel Biotech	2020
61	USAID Capacity building Concept note	Dr. Nutan Kaushik (PI)	AFAF		Rs 150 L	Virginia Tech University, USA (LEAD) + 7 Institution from Different Parts of the world	2020
62	Training modules on Agriculture	Dr. Nutan Kaushik, Dr. R S Antil and Dr Ravindra raina	AFAF	Skill Council India	Rs 40 L	NIL	2020
63	Development of a new ACE2-RBD reporter cell system-based assay and screening of potential plants used in indigenous system of medicine for identification of novel molecules against SARS-CoV-2	Co-PI Dr. Nutan Kaushik Dr. R. Raina Dr. Ramesha Dr. M. Jamsheer K	AFAF	DST-SERB	Rs 70L	NIL	2020
64	-C-CAMP and BIRAC Formulation Of Endophytic Bacteria Isolated From Tomato Seeds For Crop Protection And Plant Growth	Dr. Nutan Kaushik, Dr. Abhishek and Ms. Ayushi	AFAF	Pre-proposal		NIL	2020

65	DBT “Development of a robust low-cost screening assay based on activity of viral polymerases for the identification of novel antiviral candidate compounds in Indian traditional medicinal plantsextracts	Dr. Nutan Kaushik and Fraunhofer IME, Germany		Indo-German	Rs 97L	TUV Aachen, Germany	2020
66	Innovation Challenge FundDevelopment of Yield Prediction Model for Rice, pigeon pea and Cotton Crops Based on Regional Climate Projections and Remote Sensing Imaging Data	Dr. Nutan Kauhsik	AFAF	Indo-UK Challenge	Rs 5 crore	IARI, TERI, Skymet, UAS Dharwad,	2020
67	SITARE-GYTI Scheme Development of prototype forremoval of protein from surimi industry wash water	Dr. Nutan Kaushik and Ms. Khushboo	AFAF	BIRAC	Rs 50 L	NIL	2020
68	SERB-CRG Identification and molecularcharacterization of novel genes involved in temperature and energy-dependent development in rice	Dr. Manoj Kumar PI Dr. M. Jamsheer K, co-PI	AFAF, Amity University		Rs 49,83,360	NIL	2020
69	Developing an effective, affordable and expeditious vaccine against COVID-19 using SARS-CoV2 virus likeparticles expressed in plants	Dr. Manoj Kumar (CoPI) Dr. Kajal Kanchan (PI) Prof. BC Das (CoPI)	AFAF, Amity University AIMMSCR		Rs 50 Lakhs	AIMMSCR	2020
70	DBT specific call on Biotech Interventions in Citrus of North East Region Diversity of Candidatus Liberibacter species causing Huanglongbing disease in Citrus germplasm in North East India, its association with endophytic microbiome, and response to green microemulsion formulation as control measure	Dr. Abhishek Sharma (PI) Dr. Ramesha (Co-PI)	AFAF		Rs 124 Lakhs	Assam (Central) University and Assam Agriculture University	2020

71	Development of new generation dispersible granular formulation of plant essential oils for management of nematode-Fusarium wilt disease complex	Dr. Abhishek Sharma	AFAF	SERB-SRG	Rs 31 Lakhs	NIL	2020
72	DBT-NER “Designing of Biofertilizer / Biopesticide Unit for mass production using agro-industrial waste foreffective bio-formulations, in North-East region	Dr. Abhishek Sharma and Dr. Nutan Kaushik	AFAF	LOI		NIL	2020
73	DBT-NER Economic Empowerment of rural populations of North East region of India through Cultivation and value addition of <i>Tagetes minuta</i> , a commercially important aromatic plant	Dr. R. Raina and Dr. Nutan Kauhsik	AFAF	LOI		NIL	2020
74	Monitoring and Evaluation of Tata Trusts supported HARITproject	PI: Dr. B.S. Hansra Co-PI(s): Dr. R.S. Antil; Dr. Naleeni Ramavat & Dr. Mahesh M. Kadam	AICPHT & CCM; AFAF & AIOA (AUUP, Noida)		Rs 28.25	NIL	2020
75	END-LINE SURVEY for theProject ‘Scaling Up Resilient Agricultural Practices, Technologies and Services in the Vulnerable Areas of India’	PI: Dr. R.S. Antil Co-PI(s): Dr. B.S. Hansra; Dr. Mahesh M. Kadam; Dr. Mahua Bhattacharya & Shafali Kashyap	AFAF; AICPHT & CCM; ASOE & AIOA (AUUP, Noida)		Rs 13.86	NIL	2020

76	Restoration of degraded land by use of biotechnological techniques and regeneration of some selected indigenous forest species on degraded salt affected soil of Haryana Region	PI: Dr(Mrs)Susmita Shukla Co-PI (s): Dr. Santosh Pal Singh; Dr. R.S.Antil;Dr. Amit C Kharkwal; Prof. Rajive Kumar & Dr Kirti RaniSharma	AIB; ASNRSD; AFAF; AIMT (AUUP, Noida); AFEFC(AUUP, Lucknow		Rs 183.23	NIL	2020
77	CROP IMPROVEMENT COMPASS (CIC)	Dr. Nutan Kaushik	AFAF	European Union proposal H2020-LC-GD-2020-4	1,41,718.75 €.	25 partners from 18 countries	2021
78	A Low-Cost, Rice Husk-Based Zeolite-Impregnated Filtration Candle for Household Water Treatment	Dr. Nutan Kaushik	AFAF	Alliance for African Partnership (AAP)- Innovative Research in Africa (PIRA)		NIL	2021
79	Structural and functional characterization of Rv2327, a novel MarR family of transcriptional regulator from Mycobacterium tuberculosis and deciphering its role in drug resistance	Dr. Manoj Kumar; Dr. Kajal Kanchan, AIMMSCR, AUUP		DST-SERB		NIL	2021
80	Multiomics Approach towards a Functional Insight into Non-alcoholic fatty liver disease Progression and Insulin Resistance: Biomarker Discovery, Target Validation and Therapeutic Intervention	Dr. Manoj Kumar		ICMR-Task-Force on 'OMICS' in Health & Disease	Rs. 1,89,83,840	AIMMSCR, AUUP and TDU Banagalore	2021
81	Field Studies of B.siamensis based formulation of tomato crop	Dr. Nutan Kaushik	AFAF	Sree Ramakrishna Paramahansa Research Grant 2021	Rs. 47,40,000	NIL	2021
82	Testing of artificial infection method for agarwood production and their use in economic development of local tribes of North Eastern India	Dr. Nutan Kaushik	AFAF	GB Pant National Institute of Himalayan Environment and Sustainable Development	Rs. 24,88,000	NIL	2021

83	Capacity building in women farmer on organic production and postharvest handling of horticultural crops for enhancing their income	Dr. Nutan Kaushik & Dr. Shalini Singh	AFAF	Department of Horticulture, Govt. of U.P		NIL	2021
84	Technology development for the production of eco-friendly, non-toxic and cost-effective potential natural dyes for textile industry	Dr. Nutan Kaushik; Dr. Harsha Kharakwal and Dr. P Pushpangadan	AFAF; AIP&P	DST-SERB	Rs. 1,31,84,492	NIL	2021
85	Management of Nematode-Fusarium disease complex through essential oil mediated modulation of microbiome	Dr. Abhishek Sharma and Dr. Nutan Kaushik	AFAF	DBT under Core Research Grant Call	Rs. 70,48,310	NIL	2021
86	Impact of the municipal solid waste landfill-sites on environment, soil and groundwater quality	Dr. R.S Antil	AFAF	Environmental Research & Education Foundation (EREF)-Pre-Proposal		NIL	2021
87	Quantitative Estimation of Azadirachtin Content from Neem Seeds	Dr. Nutan Kaushik	AFAF	AFRI, Jodhpur-Tender		NIL	2021
88	Training to Agri-Entrepreneurs under the Better Life Farming Alliance (BLFA) Project in India	Dr. Nutan Kaushik	AFAF	IFC project	Rs. 60 lakhs	Global AgriSystem	2021
89	Development of Lipopeptide Based Biological Fungicide from <i>B. siamensis</i> for Control of Wilt and Rot in Banana and Tomato	Dr. Nutan Kaushik	AFAF	BIRAC PACE-CRS;	Rs 143.18 Lakhs	Sri BioAesthetics Private Limited Hyderabad, Telangana, India	2021