

Faculty Profile

Dr. Mohammed Latif Khan
Professor (Full)
Department of Botany
Dr. Harisingh Gour Vishwavidyalaya (A Central University),
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	0000-0001-6849-0307	 Web of Sci. Res. ID	Q-7641-2019
 ID	8683480900	 ID	49028
	https://scholar.google.com/citations?user=fh0TOGMA	 Microsoft Academics Search Id	https://www.semanticscholar.org/topic/Microsoft-Ac
	http://dhsgsu.irins.org/myprofile		

Name	MOHAMMED LATIF KHAN		Date of Birth: 01-01-1961
Designation	Professor	Date of holding Present Post	31.03.2009
Name of the Department and School	Botany		School of Biological School
Contact Details	Email : khanml61@gmail.com ; khanml@yahoo.com		Mobile: +919425613661
Additional Responsibility in the university, if any	• Director (Academic Affairs) - Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh (October, 2021 to November, 2021). • Chairperson – University Nodal Centre for Ranking Process, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh, India (April 2015 till 2018). • Member – Equal Opportunity Cell, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh, India (November, 2015 to continue).		

	• Director (R & D) - Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh (July, 2013 to April, 2014). • Head - Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh (July, 2013 to June, 2014). • Head-Department of Botany, Guru Ghasidas Central University, Bilaspur, Chhattisgarh (July, 2011 to Feb., 2012). • Coordinator (Sponsored Research & Industrial Consultancy - SRIC) - North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (June, 2012 to June, 2013). • Head -Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (November, 2008 to June, 2011). • Head - Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (February- August, 2005). • Chairman of CETC (Controller of Exams.) - North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (2001-2004). • Deputy Chairman of CETC (Dy. Controller of Exams.) - North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (2000-2001). • Warden Boys hostel for more than three years • Member of Entrance Examination of the Institute for two years
Educational Qualifications (UG onwards)	• B. Sc. (Biology), Kanpur University, Kanpur, India, 1980. • M. Sc. (Botany), Kanpur University, Kanpur, India, 1982. • Pre-Ph. D./M. Phil. (Ecology/Botany), North Eastern Hill University, Shillong, India, 1985. • Ph. D. (Ecology/Botany), North Eastern Hill University, Shillong, India, 1987.
Research Area/ Specialization	I. Conservation of Biological Diversity • Mapping at landscape level • Sacred Groves • Endangered/Threatened/Rare species • Keystone Species • Phylogeny and genetic diversity II. Ecosystem • Ecosystem services • Carbon sequestration Restoration • Tree Regeneration • Seed and Seedling Biology III. GIS & Remote Sensing • Land use and land cover changes • Ecological niche modeling

Awards/ Honors/ Fellowship Conferred (With details thereof)	Fellowship • Fellow of Linnean Society, London, UK • Fellow of Royal Society of Biology, London, UK • Fellow of Shastri Indo Canadian Institute, New Delhi • Fellow of National Academy of Agricultural Sciences, New Delhi • Fellow of National Environmental Science Academy, New Delhi • Fellow of International Society for Environmental Botanists • Fellow of Society for Science of Climate Change and Sustainable Environment • Fellow of National Institute of Ecology, New Delhi • Fellow of International Society for Tropical Ecology, Varanasi • Fellow of Range Management Society of India, Jhansi Awards • Conferred the 'Award for Outstanding Contribution in Climate Science and Environmental Sustainability' of Society for Science of Climate Change and Sustainable Environment (2020) • Conferred <i>Nanda Memorial Award for Young Scientist</i> for 1995 by the Indian Society for Tree Scientists, Solan, Himachal Pradesh, India. Professional Associations: • Included as an expert in the committee (Ecology & Environment) constituted by the Office of the Principal Scientific Adviser to the Government of India to draft the Mega Science Vision-2035 of India (2020- till present). • On the panel of taskforce of DBT, New Delhi for the project 'Demonstration of cultivation, processing and value addition of selected aromatic crops in Bundelkhand region. (2017- 2020) • UGC nominee in the advisory committee for monitoring the progress of SAP programme of Department of Biosciences, Himachal Pradesh University, Shimla, HP (2016-2019). • Member of Global Forest Biodiversity Initiatives (GFBI), People, Nature, World, Diversity, USA. • Member of South Asia Region Network of IUCN – CEM (Critical Ecosystem Management), IUCN CEM South Asia Core Group. • Elected as Vice President of Executive Council of National Institute of Ecology (NIE), New Delhi (2014-2017, 2018-2020). • Inducted in the executive body of International Society of Environmental Botanists (2019 till present). • Executive Council Member of Society for Science of Climate Change and Sustainable Environment (SSCE), Lucknow.
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	• Editorial Member of the Journal of Climate Change and Sustainable Environment. • Councilor, Rangeland Management Society of India. • Councilor, National Institute of Ecology, India.
	Board/Committee Memberships: • Member of the Research Advisory Group Meeting of Tropical Forest Research Institute, ICFRE, Jabalpur, MP. • Had been member of the Research Advisory Group Meeting of Rain Forest Research Institute, ICFRE, Jorhat, Assam. • Had been member of the Committee for Biodiversity Strategy and Action Plan of Govt. of Arunachal Pradesh. • Had been member of Multidisciplinary Committee for implementation of Environment safeguard measure, NEEPC, Arunachal Pradesh. • Had been member of Advisory Management Committee of Regional Centre, National Afforestation and Eco-Development Board (MOEF), NEHU, Shillong • Had been on the panel of experts of Inter-Academy Advisory Panel of INSPIRE Programme of DST, New Delhi. • Had been on the panel of experts of MOEF, Govt. of India to celebrate “International Year of Biodiversity”. • Had been member of the Committee for State Pollution Control Board of Govt. of Arunachal Pradesh. • Had been member of the Committee for State Medicinal Plant Board of Govt. of Arunachal Pradesh. • Had been member of Core Committee on Climate Change Action Plan, Arunachal Pradesh. Membership of Professional Societies: • East Himalayan Society for Spermatophyte Taxonomy (Natural Member), West Bengal • National Academy of Environmental Sciences, New Delhi (Life Member) • National Institute of Ecology, New Delhi, India (Life Member) • Society for Science of Climate Change and Sustainable Environment (SSCE), Lucknow (Life Member). • Rangeland Management Society of India, India (Life Member) • Indian Society for Tree Scientists, India (Life Member) • Indian Society for Conservation Biology, India • Indian Society for Seed Science & Technology, New Delhi, India

	• Indian Society for Remote Sensing, Dehradun, India (Life Member) • All India Council for Technical Education, New Delhi (Life Member) • Botanical Society, Dept. of Botany, Dr. Harisingh Gour Central University, Sagar, MP • Indian Science Congress (Life Member) Membership of Editorial Boards: • <i>Sustainability</i> - Special Issue "Impacts of Climate Change on Biodiversity", IF-3.25 (MDPI) – Guest Editor. - 2022 • <i>Land Degradation & Development</i> – Special Issue "Biodiversity and Ecosystem Services at Post-mining and Post-industrial Lands", IF-4.977 (Wiley Publisher) - Guest Editor. - 2022 • <i>Journal of Environmental Monitoring and Assessment</i> (Springer), IF- 2.513 – Guest Editor; Vol. 191 (Suppl. 3), 2019. • <i>International Journal of Ecology and Environmental Sciences</i> - Special Issue on 'Forest dynamics under anthropogenic disturbances and global climate change', Guest Editor – 2021 • On the editorial board of 'Climate Change and Environmental Sustainability (CCES) • Editor, Indian Journal of Agroforestry. • On the editorial board <i>Indian Journal of Agroforestry</i> • On the editorial board of Scientific World Journal (Ecology section), UK. • On the Editorial Board of the Journal "<i>Nature and Environment</i>". • Included in database as reviewer for <i>Asian Journal of Geoinformatics</i>. • Invited as an eminent editor for the <i>Journal of Plant Science and Research</i> • On the editorial board of '<i>International Journal of Interdisciplinary and Multidisciplinary Studies</i>: http://www.ijims.com/index.php' • On the editorial board of '<i>Journal Current World Environment</i> (www.cwejournal.org)'.
Research grants received from:	• Department of Science and Technology, New Delhi. • Department of Biotechnology, New Delhi. • Council for Scientific and Industrial Research, New Delhi. • Ministry of Environment and Forests, New Delhi. • Indian Council for Agriculture Research, New Delhi.

	• G. B. Pant Inst. of Himalayan Environment & Development, Almora. • MacArthur Foundation (through UNESCO, ATREE), USA. • American Rhododendron Society, USA. • Ashoka Trust for Research in Ecology & Environment, Bangalore, India. • Indian Institute of Remote Sensing, Dehradun, India. • National Remote Sensing Agency, Hyderabad, India. • All India Council for Technical Education, New Delhi
Scientific Collaborations:	National Level: • Indian Institute of Sciences, Bangalore (2020 – till present) • Ashoka Trust for Environmental Education & Research (ATREE), Bangalore • National Centre for Biological Sciences, Bangalore (2020 – till present) • Central University Jharkhand, Ranchi (2013- till present) • Indian Institute of Technology, Kharagpur • Indian Institute of Technology, Hyderabad • Banaras Hindu University, Varanasi, UP, India • National Chemical Laboratory, Pune, India (2005-2009) • Indian Institute of Remote Sensing, Dehradun, India (2001-2012) • North Eastern Hill University, Shillong, India (2006-2010) • Assam University, Silcher, Assam, India (2004-2009) • National Remote Sensing Agency, Hyderabad, India (2008-2012) • Tezpur University, Tezpur, Assam • ICRSET, Hyderabad International Level: • Concordia University, Montreal, Canada (continued) • Global Forest Biodiversity Initiatives, USA

Graduate Students:

Post-Doctoral Fellows:

- Dr. Javid Ahmad Dar, DST-SERB National Post-Doctoral Fellow
- Dr. Devika Bajpai, DST-SERB National Post-Doctoral Fellow
- Dr. Bilal Ahmad Wani, D. S. Kothari Post-Doctoral Fellow
- Dr. Suba K. Raman, D. S. Kothari Post-Doctoral Fellow
- Dr. Satyam Verma, DBT

Ph. D. Students

Awarded:

- Dr. Putul Bhuyan
- Dr. Ashalata Devi
- Dr. Ksh. Lal Bihari Singha
- Dr. Ashish Paul
- Dr. Baharul Islam Chaoudhury
- Dr. Purbi Saikia
- Dr. Shafiqul Islam Bhuyan
- Dr. Jimmy Yebjeny Yumnam
- Dr. Sanjeeb Bharali
- Dr. Jyotishman Deka
- Dr. Parimal Ray
- Dr. Janmoni Kalita
- Dr. Anup Kumar Das
- Dr. Amal Bawari
- Dr. Dilip Salam
- Dr. G. Ranibala
- Dr. Anamika Dubey
- Dr. Debjyoti Raha
- Dr. Parvez Ahmad Lone
- Dr. Tapas Ray

Current:

- Ms. Radha Rajpoot
- Ms. Farhat Khan
- Mr. Dinesh Malasiya
- Mr. Praveen Pandey
- Mr. Abhay Pratap Singh

Mentoring of international graduate students:

Mentoring two international graduate students from Biology Department, Concordia University, Montreal, Canada who are in our university since August, 2019 under the international visiting fellowships received from different funding agencies.

Summary of Publications (No. only)	Research Papers	205	Books	3	Chapter in Books	59	Sem./Conf. Proc.	13	Projects	43
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Sponsored Research Projects:

1. DBT-BUILDER – “Interdisciplinary Life Science Programme for Advance Research and Education” under RRSFP programme (Level II). Sponsored by Department of Biotechnology (DBT), New Delhi. Approved in June, 2022. Coordinator of the Programme; **Ongoing**, Amount Rs. 3.50 crores; Duration – 5 years.
2. Monitoring forest structure and dynamics in relation to climate change across different biogeographic zones of India. Sponsored under Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF & CC (No. 13008/72/2019-CC, dt. March, 2020). Co- Principal Investigator; **Ongoing**, Amount Rs. 3.74 crores; Duration – 5 years.
3. Long-term monitoring of soil processes in forests and grasslands. Sponsored under Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF

- & CC (No. 13008/72/2019-CC, dt. March, 2020). Co- Principal Investigator; **Ongoing**, Amount Rs. 3.19 crores; Duration – 5 years.
4. Long-term monitoring of biodiversity and ecosystem processes in indian grasslands. Sponsored under Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF & CC (No. 13008/72/2019-CC, dt. March, 2020). Co- Principal Investigator; **Ongoing**, Amount Rs. 3.19 crores; Duration – 5 years.
 5. Impacts of plant invasion on diversity, carbon sequestration and CO₂ efflux in Central Indian forests (No.F.4-2/2006 (BSR)/BL/20-21/0067, 14th September, 2021); Dr. D.S. Kothari Postdoctoral Fellowship awarded to Suba K. Raman; Mentor; **Ongoing**; Amount: Rs. 24.00 lakhs; Duration – 3 years.
 6. Mapping and Quantitative Assessment of Plant Resources and its Distribution in Madhya Pradesh, Central India. Sponsored by Department of Biotechnology, Govt. of India (No.BT/PR12899/NDB/39/506/2015, Dt. 20-06-2017); Coordinator & Principal Investigator; **Ongoing**. Amount: Rs. 212.26 lakhs; Duration – 4 years.
 7. Monitoring spatio-temporal dynamics of Above Ground Biomass in forests ecosystems using Airborne L & S band SAR images (Ref:/EPSA/3.1.1/2017, dated 13th November, 2017); Sponsored by Space Application Centre, Ahmadabad; Co- Principal Investigator; **Ongoing**. Amount: Rs. 24.30 lakhs; Duration – 3 years.
 8. Monitoring and phenological assessment of invasive plant species using airborne visible/infrared imaging spectrometer – next generation (AVIRIS – NG) and Sentinel-1 SAR images. (Ref:/EPSA/4.1.1/2017, dated 19th December, 2017); Sponsored by Space Application Centre, Ahmadabad; Co- Principal Investigator; **Ongoing**. Amount: Rs. 20.50 lakhs; Duration – 3 years.
 9. A study on potential and effects of *Gliricidium sepium* as an invasive tree (File No.PDF/2016/000652; Dated:21-09-2016; DST-SERB National Post-Doctoral Fellowship awarded to Dr. Devika Bajpai); Mentor; Completed; Amount: Rs. 19.20 lakhs; Duration- 2 years.
 10. Exploration and conservation of ecologically and economically important threatened plant species occurred in sacred groves of Assam. Sponsored by GBPIHED-MoEF & CC (No. GBPI/IERP/10-11/11/109, Dated: 29-08-2014); Co-Principal Investigator; Completed; Amount: Rs. 9.96 lakhs; Duration- 3 years.
 11. Assessing the carbon sequestration potential of different forest types in Central India in response to climate change. (File No.PDF/2015/000447, Dated:15-07-2016; DST-SERB National Post-Doctoral Fellowship awarded to Javid Ahmad Dar); Mentor; Completed; Amount: Rs. 19.20 lakhs; Duration- 2 years.
 12. A study on reproduction potential of invasive tree *Gliricidia sepium* in relation to its invasion success (No.F.15/2015-17/PDFWM-2015-17-MAD-30802(SA-II, dated:12-10-2015; UGC-Post-Doctoral Fellowship for Women awarded to Devika Bajpai); Mentor; Completed; Amount: Rs. 28.55 lakhs; Duration- 5 years.

13. Generation of marker free transgenic potato for increased α -tocopherol production using gamma methyl transferase and HPT gene. (No.100/(IFD)/1024/2014-15, Dated:20-05-2014; DST-Women Scientist Scheme- A, Awarded to Dr. Devanshi Chandel Upadhyaya); Completed; Amount: Rs. 21.60 lakhs; Duration- 3 years.
14. Effect of *Lantana camara* on Carbon Sequestration and CO₂ Efflux of Different Forest Types in Central India (No.F.4-2/2006 (BSR)/BL/16-17/0164, Dated: 14-12-2016, Dr. D.S. Kothari Postdoctoral Fellowship awarded to Bilal Ahmad Wani); Mentor; Completed; Amount: Rs. 24.00 lakhs; Duration – 3 years.
15. All India Coordinated project on Sacred Grove Ecosystem Service Assessment of Madhya Pradesh. Sponsored by MoEF New Delhi, Govt. of India (No.22/13/2011-(sg)/RE, dated:28-03-2012); Co- Principal Investigator; Completed. Amount: Rs. 39.84 lakhs; Duration – 5 years.
16. Inventory, biodiversity value, status and strategies for conservation of sacred groves of central India. Sponsored by CSIR, New Delhi, (38(1318)/12/EMR-II, dated: 03-04-2012); Principal Investigator; Completed. Amount: Rs. 11.29 lakhs; Duration – 3 years.
17. Studies on ecosystem dynamics of disturbed & undisturbed tropical rain forests of Arunachal Pradesh. Sponsored by Ministry of Env. & Forest and CC, New Delhi, (No.14/26/98-ERS/RE, dated: 04-03-2015); Co-Principal Investigator; Completed. Amount: Rs. 16.00 lakhs; Duration – 3 years.
18. Cultural Landscape: Linking biodiversity conservation with sustainable development in Arunachal Pradesh. Sponsored by UNESCO/Mac Arthur foundation USA (FC003095, dated: 25-07-2012); Co-Principal Investigator; Completed. Amount: Rs. 19.19 lakhs; Duration – 04 years
19. Isolation, characterization and identification of natural pigments of food and industrial values from filamentous fungi. Sponsored by Department of Biotechnology, New Delhi, (BT/22/NE/TBP/ 2010, dated:16-03-2011); Co-Principal Investigator; Completed. Amount: Rs. 56.76 lakhs; Duration – 3 years.
20. Exploration of microbial diversity and microbial role in arsenic mobilization in contaminated ground water of North Eastern states (Arunachal Pradesh & Assam). Sponsored by Department of Biotechnology, New Delhi, (BT/19/NE/TBP/2010, dated: 25-02-2011); Co-Principal Investigator; Completed. Amount: Rs. 68.28lakhs; Duration – 3 years.
21. Monitoring of developmental activities of Wildlife Sanctuaries and National Parks. Sponsored by Govt. of Arunachal Pradesh (Wild life & Bio-Diversity), (No.CWL/D/21(78)/2011/189-91, dated:07-04-2011); Principal Investigator; Completed. Amount: Rs. 6.78 lakhs; Duration – 01 year.
22. Modernization of Plant Biotechnology & Biochemistry Laboratory. Sponsored by AICTE, New Delhi, (FNo. 8024/RIFD/MOD(NER)-64/2010-11, Dated:03-03-2011); Principal Investigator; Completed. Amount: Rs. 7.00 lakhs; Duration – 01 year.

23. Study on species diversity of *Primula* in eastern Himalayan region, India. Sponsored by John D. and Catherine T. MacArthur Foundation, USA (Through ATREE, Bangalore; ATREE-SGRNE/MAF/01, Dated:20-08-2010). Principal Investigator; Completed. Amount: Rs. 10.00 lakhs; Duration – 02 year.
24. Assessment of population structure and regeneration pattern of most preferred food plant species of *Hoolock gibbons* in protected and non-protected areas of northeast India. Sponsored by CSIR, New Delhi (No.37(1409)/10/EMR-II, dated: 01-04-2010). Co-Principal Investigator; Completed. Amount: Rs. 15.00 lakhs; Duration – 03 year.
25. Spatial and temporal changes in Land-use/Land cover of Dehang Debang Biosphere Reserve of Arunachal Pradesh and its effect on plant diversity and population dynamics of important tree species. Sponsored by MoEF & CC, New Delhi (8/04/07-CS/BR/53, dated: 01-02-2010). Principal Investigator; Completed. Amount: Rs. 19.66 lakhs; Duration – 03 year.
26. Establishment of State Biotech Hubs (SBT hubs) by DBT under special programme for North Eastern States of India. Sponsored by Department of Biotechnology, Govt. of India (N.BT/04/NE/2009, dated: 22-12-2010). Principal Investigator; Completed. Amount: Rs. 150.00 lakhs; Duration – 03 year.
27. Expansion of infrastructure in plant microbe interaction & Biotechnology Laboratory. Sponsored by AICTE, New Delhi, (F.No. 8024/RID/BOR/MOD-311/2008-09, dated: 30-03-2009); Principal Investigator; Completed. Amount: Rs. 13.00 lakhs; Duration – 01 year.
28. Conservation and reintroduction of rare, endemic and endangered rhododendron species in the Indian Eastern Himalayas. Sponsored by The American Rhododendron Society, (Am. Rhododendron Society Research Comm. CCC 9/15/09, Dated: 30-07-2009); Co-Principal Investigator; Completed. Amount: Rs. 06.00 lakhs; Duration – 02 years.
29. Land use and land cover dynamics and impact of human dimension in Brahmaputra River basin. Sponsored by NRSC (ISRO) Hyderabad, (ISRO-GBP LULC, dated: 31-03-2009); Principal Investigator; Completed. Amount: Rs. 12.00 lakhs; Duration – 02 years.
30. Mapping of population status and conservation strategies of *Taxus wallichiana* Zucc. and *Illicium griffithii* Hook. – two threatened medicinal tree species in Arunachal Pradesh. Sponsored by CSIR, New Delhi (38 (1187)/08/ EMR-II, dated: Dated: 25-02-2008); Principal Investigator; Completed. Amount: Rs. 14.00 lakhs; Duration – 03 years.
31. Inventory of biodiversity in agricultural landscapes, economic uses and conservation for sustainable development in Eastern Himalayan region of Arunachal Pradesh. Sponsored by DST, New Delhi (No. SP/TSP/011 /2008, Dated:15-06-2008); Co-Principal Investigator; Completed. Amount: Rs. 19.00 lakhs; Duration – 02 years.
32. Rodent control and Ecological analysis of the impact of bamboo flowering in Arunachal Pradesh and Mizoram of Northeast India. Sponsored by DST, New Delhi (ST

- (Ar.Pr.)/LSR/2K7/544, Dated: 23-7-2008); Co-Principal Investigator; Completed. Amount: Rs. 24.00 lakhs; Duration – 02 years.
33. Biomass and Carbon Assessment in India. Sponsored by IIRS, Dehra Dun (IIRS:FED:VCP/8, Dated: 08-06-2008); Principal Investigator; Completed. Amount: Rs. 10.00 lakhs; Duration – 02 years.
34. Establishment of biotech-hub at NERIST. Sponsored by DBT New Delhi, (D.O.BT/BI/04/055/2001, Dated: 14-02-2008); Principal Investigator; Completed. Amount: Rs. 20.00 lakhs; Duration – 01 year.
35. State of Environment (SOE) Report of Arunachal Pradesh. Sponsored by MoEF & CC, New Delhi (8/6/2007-EI, dated: 28-03-2008); Co-Principal Investigator; Completed. Amount: Rs. 5.80 lakhs; Duration – 01 year.
36. Web GIS based digital atlas of the sacred groves of the north-east India: pilot study with sacred groves of Arunachal Pradesh. Sponsored by DSIR (DST), New Delhi, (DSIR/Web/TIF026/2004-2005, Dated: 31-12-2004); Principal Investigator; Completed. Amount: Rs. 5.80 lakhs; Duration – 02 years.
37. Evaluation of regeneration behavior of selected endangered/threatened tree species in disturbed and undisturbed tropical rain forests of Arunachal Pradesh. Sponsored by DST, New Delhi, (SR/SO/PS-16/ 2002, Dated: 11-06-2004); Principal Investigator; Completed. Amount: Rs. 15.00 lakhs; Duration – 03 years.
38. Studies on exploration, population status and conservation of Rhododendrons – keystone species in Arunachal Pradesh. Sponsored by CSIR, New Delhi, ((1052)/02/EMR-II, dated: Dated: 20-2-2002); Principal Investigator; Completed. Amount: Rs. 8.28 lakhs; Duration – 03 years.
39. Exploration of germplasm of bamboos and canes in North Eastern India. Sponsored by Indian Council for Agriculture Research (NATP), New Delhi (NBPGR/NATP/BD/20032388, Dated: 23-01-2002); Principal Investigator; Completed. Amount: Rs. 10.28 lakhs; Duration – 04 years.
40. Plant population dynamics under varied perturbation regimes and in forest successional environment, i.e., biodiversity fluxes and dynamics over space and time. Sponsored by UNESCO MacArthur Foundation, USA, (F.No. PS(AF)/NRM/2010/2, Dated:23-07-2002); Co-Principal Investigator; Completed. Amount: Rs. 16.00 lakhs; Duration – 3 years.
41. Inventory, biodiversity value, status and strategies for conservation of sacred groves of Manipur. Sponsored by GB Pant Institute of Himalayan Environment and Development, Almora (GBPI/IERP/98-99/17/409, Dated: 29-02--2000); Principal Investigator; Completed. Amount: Rs. 5.30 lakhs; Duration – 03 years.
42. Strengthen the existing Botanical Garden at NERIST. Sponsored by MoEF & CC, New Delhi (F.No.13/26/97-CS/BG, dated: 05-03-1998); Co-Principal Investigator; Completed. Amount: Rs. 3.20 lakhs; Duration – 01 year.

43. Seed dispersal, germination and fitness of seedlings of Rudraksh (*Elaeocarpus ganitrus*). Sponsored by DST New Delhi, (F.No. SP/SO/C-04/94, Dated: 06-12-1996); Co-Principal Investigator; Completed. Amount: Rs. 9.00 lakhs; Duration – 03 years.

Publications

Five landmark papers

Sl. No.	Year	Title of the paper	Link
1.	2019	Steidinger B. S., Khan M. L. (181 authors) 2019. Climatic controls of decomposition drive the global biogeography of forest-tree symbioses , <i>Nature</i> 569 (7756) 16 May: 404-408. Impact Factor: 69.504	Link
2.	2022	Liang J. Dayanandan S. Khan M. L. Saikia P. GFBI team. 2022. Evidence of co-limitation in global forest diversity gradients 2021. <i>Nature Ecology & Evolution</i> ; Impact Factor: 19.1	Link
3.		Gatti R. C. Dayanandan S. ... Khan M. L. ... Khare P. K. ... Amit Kumar, Ashwani Kumar Saikia P. GFBI team Liang J. 2022. The number of tree species on Earth . <i>Proceedings of the National Academy of Sciences (PNAS, USA)</i> . Impact Factor: 12.779	Link
4.	2020	Zohner C. M. Khan M. L. (et al.) 2020. Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia ; <i>Proceeding of National Academy of Sciences (PNAS, USA)</i> , Jun 2;117(22):12192-12200. Epub 2020 May 11. PMID: 32393624; PMCID: PMC7275740. Impact Factor: 12.779	Link
5.		Lal P., Kumar A., Kumar S., Kumari S., Saikia P., Arun Dayanandan A., Adhikari D. and Khan M. L. 2020. The dark cloud with a silver lining: Assessing the impact of the SARS COVID-19 pandemic on the global environment , <i>Science of the Total Environment</i> . Impact Factor: 10.753	Link

Books

Sl. No.	Year	Title of the book	Link
1.	2022	Kumar A., Choudhury B. I. Dayanandan S., Khan M. L. (eds.). 2022. Molecular Genetic and Genomics Tools in Biodiversity Conservation. Springer Nature. ISBN 978-981-16-6004-7 ISBN 978-981-16-6005-4 (eBook),	Link
2.	2020	Choudhury B. I. and Khan M. L. 2020. The Himalayan Soap Pod <i>Gymnocladus assamicus</i> : An Ecologically and Economically Important Tree on the Brink of Extinction. CABI, ISBN-978-1786391988, , 180 pages, Publisher: CABI (December 26, 2019) Noseworthy Way Wallingford, Oxfordshire, OX10 8DE, UK.	Link

3.	2001	Arunachalam A. and Khan M.L. (eds.). 2001. Sustainable Management of Forests - India. International Book Distributors, Dehradun, pp 550. ISBN: 81-7089-280-5.	🔗
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Articles with Impact Factors			
Sl. No.	Year	Title of the paper	Link
1.	2022	Hordijk I., Dayanandan S., Khan M. L. , Purabi S., GFBI team Crowther T. W. 2022. Evenness mediates the global relationship between forest productivity and richness. <i>Journal of Ecology</i> (accepted). Impact Factor: 6.381	🔗
2.		Liang J. Dayanandan S. Khan M. L. Saikia P. GFBI team. 2022. Evidence of co-limitation in global forest diversity gradients 2021. <i>Nature Ecology & Evolution</i> ; Impact Factor: 19.1	🔗
3.		Gajbhiye T., Pandey S. K., Malik T. G., Ki-Hyun Kim, Khan M. L. 2022. Micro-morphological analysis of foliar uptake and retention of airborne particulate matter (PM)-bound toxic metals: implications for their phytoremediation . <i>Chemistry and Ecology</i> ; Impact Factor: 2.381	🔗
4.		Dar J. A., Kothandaraman S., Khare P.K. and Khan M. L. 2022. Sacred groves of Central India: diversity status, carbon storage and conservation strategies. <i>Biotropica</i> (accepted). Impact Factor: 2.858	🔗
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Sl. No.	Year	Title of the paper	Link
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Conference/Workshop/Seminar organized:

National:

- Conducted GIAN programme entitled 'Molecular Genetics & Genomics in Biodiversity Conservation' sponsored by MHRD, New Delhi, held during 22-26th July. Sanctioned amount Rs. 5.44 lakhs.

Foreign faculty: Prof. Selvadurai Dayanandan, Biology Department, Concordia University, 7141, Sherbrooke Street West, Montreal, Quebec H3G 1M8

International:

- Convenor of International Conference on "Frontier Discoveries and Emerging Opportunities in Life Sciences (FDEOLS)" held during 13 Feb. to 15 Feb. 2014 at Dr. Harisingh Gour Vishwadyalaya, Sagar, MP. Sponsored by DST-PURSE and other funding agencies.

Chaired/Co-chaired/Convener of the sessions of National and International Conferences/Symposia/workshops:

National:

1. Chaired a technical session of National Conference on Himalayan biodiversity and bio-resource utilization, held on 23rd March 2018. Organized by Department of Biosciences, Himachal Pradesh University, Shimla.
2. Chaired a technical session of National Workshop on "Resource Use and Conservation for Sustainable Socio-Ecological Development" held on 21st - 22nd December 2017. Organized by NIRDPR-NERC, Guwahati, Assam.

3. Chaired a technical session of National Workshop on Forest Resource and Plant Biodiversity, held on 16-18th November 2016. Organized by G.B. Pant Institute of Himalayan Environment and Sustainable Development Almora, Uttarakhand.
4. Co-chaired a technical session of National Workshop on Forest Resource and Plant Biodiversity, held on 16-18th November 2016. Organized by G.B. Pant Institute of Himalayan Environment and Sustainable Development Almora, Uttarakhand.
5. Chaired a technical session of National seminar on Plants, Microbe and Environment: Interaction, Challenges and Remedies, held on 20-21 February 2016. Organized by Department of Botany Dr. Harisingh Gour Vishwavidyalaya Sagar M.P.
6. Chaired a technical session of National Conference on Evolving Trends in Biotechnology, held on 28-30th March 2015. Organized by Department of Biotechnology Dr. Harisingh Gour Vishwavidyalaya, Sagar M.P.
7. Chaired a technical session of National Symposium on Horizons of Light in Molecules, Materials and Daily Life, held on 18-19th December 2015. Organized by Department of Chemistry, Dr. Harisingh Gour Vishwavidyalaya, Sagar M.P.
8. Chaired a technical session of National Indian Biodiversity Congress 2014, held on 18-20th December 2014. Organized by SRM University, Chennai, Tamil Nadu.
9. Chaired a technical session of National Conference on Conservation of Sacred Groves to Protect Local Biodiversity, held on 12-14th February 2011. Organized by C.P.R. Environmental Education Centre, Chennai.

International:

1. Chaired the two Plenary Sessions International Conference on Biodiversity: E.E., CSD (ICB-1)
Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali Rotowa, Biswanath, Assam-784184, India; held on 5th January, 2022.
2. Chaired a technical session on "Climate Resilience and Adaptation, Climate Smart Villiage" in the 3- day International Workshop cum Training on "Green Growth Strategies for Climate Resilience and DRR: Policies, Pathways and Tools. Organised by NIDM (MHA, Govt. of India) and ISEC, Bengaluru held from 26-28 November, 2020.
3. Chaired a technical session of 2nd International workshop on "Biodiversity and Climate change" held on 24th – 27th February 2018. Organized by IIT Kharagpur, West Bengal, India.
4. Chaired a technical session of international conference on Natural Resource Management and Technology trends, held on 27-29th March 2017. Centre of Advanced study, Department of Life Sciences, Manipur University, Imphal, Manipur, India.
5. Chaired a technical session of international conference on Environment Management and Sustainability, held on 4-6 January 2017. Organized by SIES- Indian Institute of Environment management, Navi Mumbai.
6. Acted as an expert panaelist and speaker in the International Workshop 'Ecosystem Mamagement, Nature Based Solution and SDG Perspectives from South Asia' on 4th

December, 2017; held at India Habitat Centre, New Delhi and organized by IUCN Commission on Ecosystem Management, South Asia, and CSIR-NEERI, Nagpur in collaboration with Leaders for Nature, IUCN India Office.

7. Convened a technical session of International Tropical Ecology Congress, held on 10-12th December 2014. Organized by School of Environmental Sciences, JNU, New Delhi.

Keynote/Invited Talks:

National:

1. Delivered an invited talk on 'The Ecological Niche and Ecological Niche Modeling' in Two-days workshop on 'Species Distribution Modelling Using R,' at Institute of Environment and Sustainable Development (IESD), Banaras Hindu University, Varanasi, India from 15th -16th March, 2021.
2. Delivered an invited talk on 'The Ecological Niche and Niche Modeling' in 6th Graduate Seminar on Natural Resource Management (Online Mode) Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India from 17th – 18th March, 2021
3. Participated as Chief Guest and delivered the Keynote address in the inaugural session of the 'Workshop cum Focus Group Discussion on 'Household Carbon Footprint: Perceptions and suggestions for low carbon lifestyle; Jointly organized by the CEENR (ISEC), Bangalore and MP Vigyan Sabha, Bhopal on 29th January, 2021.
4. Delivered a talk on 'A stitch in time saves nine: Ecosystem services and *Homo sapien's* infinity loop during Refresher Course on Environmental studies, UGC-HRDC, Panjab University on 29th December, 2020.
5. Delivered a talk on 'Ecosystem Services and Life on a Human-Dominated Earth: The Challenges and Opportunities Ahead' during Refresher Course on Environmental studies, Water, Earth and Environment (IDC) on the theme 'Towards Sustainable Environment' conducted by CPDHE, UGC-HRDC, University of Delhi on 10th November, 2020.
6. Delivered a Keynote talk on 'Forests across climates and biomes: An Indian Perspectives' during 2nd National workshop on Techniques in hyperspectral data analysis and processing" jointly organized by Department of Physics, IIT-BHU and IESD-BHU from 27th January – 31st January 2020.
7. Delivered an invited talk on 'Effects of Global Climate Change on Biodiversity' on 9th December, 2019 at Indira Gandhi Agricultural University, Raipur, CG.
8. Delivered an invited talk on '*Biodiversity and its importance to human survival*' on 23rd January 2018 during 55th Orientation Programme. Organized by the UGC-Human Resource Development Centre, Dr. Harisingh Gour Vishwavidyalaya, Sagar, MP.
9. Delivered an invited talk on 'Resource use and conservation for sustainable socio-ecological development held on 21st - 22nd December 2017. Organized by NIRDPR-NERC, Guwahati, Assam.

10. Delivered an invited talk on '*Biodiversity: Importance to culture & diversity*' on 29th November 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Mizoram University, Aizawl Mizoram.
11. Delivered an invited talk on '*Ecosystem and Culture on human dominated earth*' on 29th November 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Mizoram University, Aizawl, Mizoram.
12. Delivered an invited talk on '*What is biodiversity? Is it important for our survival*' on 17th September 2017 during Personal Contact Programme of PG Diploma in Environmental management conducted by the Institute of Distance Education, Dr. Harisingh Gour Vishwavidyalaya, Sagar, MP.
13. Delivered an invited talk on '*Ecosystem services and life on a human dominated earth: the challenges and opportunity ahead*' on 17th September 2017 during Personal Contact Programme of PG Diploma in Environmental management conducted by the Institute of Distance Education, Dr. Harisingh Gour Vishwavidyalaya, Sagar, MP.
14. Delivered a Keynote address on '*Cultural and Bio-Resource Diversity of North East India*' during National Seminar on "Environment, sustainable development and future perspective in northeast India: emic and etic dynamics", held on 2nd – 3rd October 2017. Organized by Department of Anthropology, University of Delhi.
15. Delivered an invited talk on '*What is biodiversity? Is it important for our survival*' on 21st September 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G.
16. Delivered an invited talk on '*Ecosystem services and life on a human dominated earth: the challenges and opportunity ahead*' on 17th September 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur, CG.
17. Delivered an invited talk on '*Climate change and its impact on biodiversity with special reference to Himalaya, India*' in the national workshop "Forest Resource and Plant Biodiversity" held on 16-18th November 2016; organized by GB Pant National Institute of Himalayan Environment and Sustainable Development, Almora, UK, India.
18. Delivered an invited talk on '*Medicinal and Aromatic Plants of Bundelkhand region: some prospects*' in "Brainstorming session-cum-stakeholders meeting on medicinal plants initiatives in Bundelkhand region", held on 17—18th February 2017; organized by Bundelkhand University, Jhansi, UP.
19. Delivered an invited talk on '*Climate change and its impact on biodiversity with special reference to Eastern Himalaya, India*' in the "4th Indian Biodiversity Congress" held on 10-12th March 2017; organized by Pondicherry University, Pondicherry.
20. Delivered an invited talk on '*Sacred groves and their significance in conserving biodiversity - case studies from northeast India*' in the national seminar "Conserving the sacred groves in north-east India: perceptions, practices and policy implications" held

on 4-5th March 2016; organized by Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, MP.

21. Delivered an invited talk on '*Ecosystem Services and Life on a Human - Dominated Earth: The Challenges and Opportunities Ahead*' in the national seminar "*Himalayan Biodiversity and Bioresource Utilization*" held on 23rd March 2016; organized by the Department of Biosciences, HP University, Shimla, HP.
22. Delivered an invited talk on '*Ecology of Mycorrhizal Fungi*' in the workshop on "*Isolation and Staining Techniques of Mycorrhizal Fungi*" held on 30-31st October 2015; organized by Department of Rural Technology & Social Development, Guru Ghasidas University, Bilaspur, C.G.
23. Delivered an invited talk on '*Ecosystem Services and Life on a Human- Dominated Earth: The Challenges and Opportunities Ahead*' in National Conference on "*Evolving Trends in Biotechnology*" held on 29th March 2015; organized by Dr. H.S. Gour Central University, Sagar, M.P., India.
24. Delivered an invited talk on '*Sacred groves and their significance in conserving biodiversity-case studies from north east India*' in '*3rd Indian Biodiversity Congress*' held on 19th December 2014; organized by SRM University, Chennai, India.
25. Delivered an invited talk on '*Some interesting records of *Primula* species from Arunachal Pradesh*' in XXIII Conference of Indian Association for angiosperm Taxonomy and national seminar on '*Recent advance in plant taxonomy research*', held on 28th December 2013; organized by Dept. of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, India.
26. Delivered an invited talk on '*Sacred of North-East India*' in National workshop on '*Sacred Grove Festival -2012*', held on 15th December, 2012; organized by Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, MP, India.
27. Delivered an invited talk on '*Soil type profile and vegetation monitoring of Arunachal Pradesh*' in regional seminar on '*Mainstreaming Conservation and sustainable use of medicinal plant in three Indian states*', held on 12th May, 2011; organized by SFRI, Itanagar, Arunachal Pradesh, India.
28. Delivered an invited talk on '*Sacred groves and their significance in conserving biodiversity-case study from north east India*' in National Conference on '*Conservation of Sacred Groves to protect local Biodiversity*'; held on 13th February, 2011; organized by CPR Environmental Education Centre, Chennai, India.
29. Delivered an invited talk on '*Climate change and its impact on Himalayan Biodiversity Hotspot*' in national seminar on '*Mountain Biodiversity & Impacts of climate change with special reference to Himalayan Biodiversity Hotspot*'; held on 7th December, 2010; organized by G.B. Pant National Institute of Himalayan Environment & Sustainable Development Almora, Uttarakhand, India.

30. Delivered an invited talk on 'Wetlands of North East India: Threats & Conservation' in national seminar on 'Scientific strategies for protection and preservations of wetlands in India'; held on 12th January, 2010; organized by DST, JNU, New Delhi, India.
31. Delivered an invited talk on 'Development of Criteria & indicators for sustainable NTFP management: Ecological issues' in Consultative workshop on 'Development of Criteria & indicators for sustainable NTFP management'; held on 5th January, 2010; organized by Indian Institute of Forest Management, Bhopal, M.P. India.

International:

1. Delivered a talk 'Rethinking to Rebuilding - Stepping Towards Environment, Sustainability and Ecosystem Services' during Plenary Session of International Conference on Biodiversity: E.E., CSD (ICB-1), Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali Rotowa, Biswanath, Assam-784184, India; held on 5th January, 2022.
2. Delivered a talk 'Biodiversity in human dominated era' during Inaugural Session of International Conference on Biodiversity: E.E., CSD (ICB-1) Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali Rotowa, Biswanath, Assam-784184, India; held on 5th January, 2022.
3. Delivered a talk on 'Relation building with Affiliates/Host Professors' during the dissemination and Orientation Programme for the recipients of various awards, grants and Fellowships administered by the Shastri Indo-Canadian Institute held on 21 January, 2021.
4. Delivered a Keynote talk on 'Effects of Global Climate Change on Biodiversity' International Conference on Environmental Challenges and Sustainability (ICES 2018), held on 31st Oct.- 2nd Nov. 2018, CJU, Ranchi, Jharkhand.
5. Delivered a Keynote talk on '*Climate change and Biodiversity: impact and mitigation in Eastern Himalaya, India*' during 2nd International workshop on "Biodiversity and Climate change" held on 24th – 27th February 2018. Organized by IIT Kharagpur, West Bengal, India.
6. Invited as expert panelist and speaker during workshop 'Ecosystem management, Nature based solutions and SDG perspectives from South Asia' on 4th December 2017, held at India Habitat Centre, New Delhi. Organized by IUCN Commission on Ecosystem Management, South Asia, and CSIR-NEERI Nagpur in collaboration with Leaders for Nature, IUCN India office, New Delhi.
7. Delivered an invited talk on '*Climate change and its impact on biodiversity with special reference to North East India*' in the International Conference on Environment Management and Sustainability' held on 4-6th January 2017; organized by Indian Institute of Environment Management, Mumbai.
8. Delivered an invited talk on '*Climate change and biodiversity: Impacts, adaptation and mitigation*' in the International Conference on Renewable Energy for Sustainable

Environment: Challenges and Remedies’ held on 20-21st March 2017; organized by SMVD, University, Katra, J.& K.

9. Delivered an invited talk on ‘*Climate change and its impact on biodiversity with special reference to Arunachal Pradesh, India*’ in the International Conference on Natural Resources Management and Technology Trends’ held on 27-29th March 2017; organized by Manipur University, Imphal, Manipur.
10. Delivered an invited talk on ‘*Climate change and its impact on biodiversity with special reference to North East India*’ in the “1st International Conference on Climate Science” held on 7-8th March 2016; organized by Cotton College, Guwahati, Assam.
11. Delivered an invited talk on ‘Managing the dominance of invasive alien forest plant species in high-priority conservation areas of north east India’ in International Conference on ‘Risk analysis of forest invasive alien species’, held on 28th March, 2013; organized by Panjab University, Chandigarh, India.
12. Delivered an invited talk on ‘Biodiversity management – a vital key to mitigate climate change’ in International Conference on ‘Biodiversity Asia 2012–Science, policy, and governance’, held on 9th August, 2012; organized by ATREE, Bangalore, India.
13. Delivered an invited talk on ‘Climate change and its impact on Biodiversity Hotspots’ in International Conference on ‘Perspectives of Climate change and plant diversity inter-relations’, held on 18th November, 2011; organized by Manipal University, Manipal, Karnataka, India.
14. Delivered an invited talk on ‘Climate change and its impact on biodiversity, some management options for mitigation in Arunachal Pradesh’ in International Workshop on ‘Managing biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions’; held on 12th December, 2010; jointly organized by NEHU, Shillong and JNU New Delhi, India.
15. Delivered an invited talk on ‘Mapping and Conservation of Plant resources of Arunachal Himalaya’ International workshop on ‘land management in marginal mountain areas: vulnerability and adaptation to global changes’; held on 10th November, 2009; jointly organized by NEHU, Shillong and JNU New Delhi, India.

**Presented the research papers (oral/poster) in Conferences/ Seminars/ workshops etc.:
National:**

1. Presented a paper on ‘Some Interesting Record of *Primula* species from Arunachal Pradesh’ in the XXIII Conference of Indian Association for Angiosperm Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research; held on 27-29 December, 2013; organized by PG Department of Botany Rashtrasnt Tukadoja Maharaj Nagpur University.
2. Presented a paper on ‘Diversity and prospects of bio-diesel producing species in North East India’ in the national Conference on ‘Bio-fuels in northeast India: issues and prospects; held on 21th March 2009; organized by NERIST, Arunachal Pradesh, India.

3. Presented a paper on 'JFM– A Tool for Biological Basis of Management of Forest Resources' in the regional Conference on 'Traditional Knowledge systems and community development in north east India; held on 19th August 2007; organized by NERIST, Arunachal Pradesh, India.

International:

1. Presented a paper on '*Plant diversity patterns and conservation status of Eastern Himalayan forests in Arunachal Pradesh, Northeast India*' in the 'Inaugural Global Forest Biodiversity Initiative Conference & GFBI-FECS Joint Symposium 2017 and Forest Research in the Big Data Era'; held on 6—9th September, 2017; organized by Beijing Forestry University, Beijing, China.
2. Presented a paper on 'Managing the Dominance of Invasive Alien Forest plant species in high Priority conservation areas of North East India' in the International Conference on 'Risk Analysis of Forest Invasive Alien Species; held on Feb 27-March 1, 2013; organized by IUFRO, NRC, DNAES and P.U. at Panjab University.
3. Presented a paper on 'Scope of canopy research in northeast India' in the International Conference on 'Forest canopies: conservation, climate change and sustainable use; held on 26th October 2009; organized by ATREE, Bangalore, India.
4. Presented a paper on 'Shifting cultivation in north east India: some alternatives' in the International workshop on 'Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods in the Marginal Mountain Environment'; held on 24th September 2006; organized by JNU-UNU-NIRD, Guwahati, Assam, India.
5. Presented a paper on 'Sacred groves of Manipur' in the International Symposium on "Recent Trends in Plant Ecology and Biodiversity Research"; held on 21th May 2004; organized by Dept. of Botany, Northeast Hill University, Shillong, India.
6. Presented a paper on Tree diversity and population structure in undisturbed and human-impacted tropical wet evergreen forests of Arunachal Pradesh, northeast India' in the International Conference on 'Tropical Ecosystems: Structure, Diversity and Human Welfare'; held on 17th July 2001; organized by Ashoka Trust for Research in Ecology and Environment, Bangalore, India.

Participated in the Conferences/ Seminars/ workshops etc.:

National:

1. Participated in Online Orientation Training Programme for Mentors of Non-Technical Higher Education Institutions/Universities; conducted during 18-28 January, 2021 under the National Mentoring Mission of Ministry of Education, Govt. of India.
2. Participated in the Online DBT-India Alliance IRMI Webinar on 'Research costing as a tool for enabling a sustainable research environment' held on 27th Nov., 2020.
3. Participated in the Online DBT-India Alliance Webinar on 'Let's Talk Superbugs: making Sense of Antimicrobial Resistance' held on 24th Nov., 2020.
4. Participated in the Online DBT-India Alliance Webinar on 'Response of the DBT's Autonomous Institute to COVID-19 (Part-IV)' held on 19th Nov., 2020.

5. Participated in the Online DBT-India Alliance Webinar on 'Response of the DBT's Autonomous Institute to COVID-19 (Part-III)' held on 15th October, 2020.
6. Participated in the Online DBT-India Alliance Webinar on 'Showcasing Demonstrated Waste-To-Value Technologies' held on 01st October, 2020.
7. Participated in the Online DBT-India Alliance Webinar on 'Response of the DBT's Autonomous Institute to COVID-19 (Part-II)' held on 10th September, 2020.
8. Participated in a workshop on 'Assessment of training need and capacitive of the concerned agencies as part of the GOI-UNDP programmed for threat assessment and monitoring the conservation status of medicinal plant in India'; held during 28-29 January 2013; organized by Department of Forestry, North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.
9. Participated in a workshop on 'Sacred groves Festival'; held during 14-16 December, 2012; organized by Indira Gandhi Rashtriya Manav Sangrahalay Bhopal, India.
10. Participated in a workshop on 'TEQIP Sponsored Faculty Development Programme on Remote Sensing and GIS Application in Natural Resources Management'; held during 14-18 May 2012; organized by Department of Agricultural Engineering, North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.
11. Participated in a workshop on 'Faculty development Program on Personality Development'; held during 7-9 May 2012; organized by North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.
12. Participated in a workshop on 'Workshop on Intellectual Property Rights'; held during 23 March 2012; organized by MHRD IPR Chair Tezpur University, Tezpur, Assam, India.
13. Participated in a workshop on 'Conference on Conservation of Sacred Groves to protect local Biodiversity'; held during 12-14 Feb., 2011; organized by C.P. R. Foundation, Chennai, India.
14. Participated in a workshop on 'Principles and procedures of qualifying for carbon credit by reducing Emission from Deforestation and Forest Degradation under Clean Development mechanism'; held during 9-11 September, 2010; organized by Regional Centre, National Afforestation and Eco-Development Board, MoEF, NEHU, Shillong, India.
15. Participated in a workshop on 'Mountain Biodiversity & Impact change with special reference to Himalayan Biodiversity Hotspot'; held during 6-8th December, 2010; organized by G.B. Pant Institute of Himalayan Environment & Development Almora, Uttarakhand, India.
16. Participated in a workshop on 'National workshop on Cane' held during 24-26th February 2010; organized by Cane and Bamboo Technology Centre, Guwahati, Assam.
17. Participated in a workshop on 'Scientific strategies for protection and preservations of wetlands in India' held during 11-12th January 2010; organized jointly by DST & JNU, New Delhi.

18. Participated in a workshop on 'Development of C & I for sustainable NTFP Management' held during 5th January 2010; organized by IIFM, Bhopal.
19. Participated in a workshop on 'Conservation of medicinal plants and rhododendrons of eastern Himalaya in India' held during 18-19th August 2009; organized jointly by NERIST, Nirjuli & Winrock International India.
20. Participated in a workshop on 'Invasive Alien Plants in India' held during 22-23rd May 2009; organized jointly by MOEF, New Delhi & Panjab University, Chandigarh.
21. Participated in a workshop on 'Industry and ecology: perspectives on development in Northeast India' held during 26th October 2007; organized by IIT, Guwahati, Assam.
22. Participated in a Regional Seminar on 'Traditional Knowledge Systems & Community Development in N E India' held during 18-19th August 2007; organized by NERIST, Nirjuli.
23. Participated in a National Symposium on 'Issues & Challenges for Conservation of Plants and Ecosystems in India' held during 2-3rd November 2006; organized by Dept. of Botany, NEHU, Shillong.
24. Participated in a National Symposium on 'Environment, Agriculture and Sustainable Life Support Systems: Perspectives of NER' held during 6th November 2004; organized by NERIST, Arunachal Pradesh.
25. Participated in a National Symposium on 'Workshop on "Recent Trends in Environment & Sustainable Development in North East India' held during 11th September 2004; organized by NERIST, Arunachal Pradesh.
26. Participated in National Symposium on 'Agroforestry and Sustainable Production & Silver Jubilee of Agroforestry Initiative in India' held during 7-9 November 2003; organized by IGFRI, Jhansi.
27. Participated in a National Symposium on 'Botanical Researches in Wildlife sanctuaries and national parks of Assam' held during 27-28 July 2002; organized by Handique Girls College, Guwahati.
28. Participated in State Level Workshop on 'Conservation of Mithun and Yak in Arunachal Pradesh' held during 18-19th January 2002; organized by Arunachal Pradesh Veterinary Association.
29. Participated in a Third National Workshop on 'National Agricultural Technology Programme, (NATP, Plant Biodiversity) under Jai Vigyan National Science & Technology Mission on Conservation of Agro-biodiversity' held during 18-20th April, 2001; organized by NBPGR, New Delhi.
30. Participated in Orientation Training-cum-Workshop under HRD, National Agricultural Technology Programme on 'Plant Biodiversity (MM)' held during 26 Feb. to 1st March 2001; organized by NBPGR, New Delhi.
31. Participated in a Zonal Workshop on 'National Agricultural Technology Programme (Biodiversity)' held during 17-18th Feb., 2001; organized by NBPGR, Shillong.

32. Participated in a Workshop on 'Patent Awareness-workshop' held during 17th Oct. 2000; organized by NERIST, Nirjuli.
33. Participated in a Workshop on 'Workshop on Forestry Research Prioritization in Arunachal Pradesh' held during 25-26 May, 1998; organized jointly by SFRI, Itanagar & ICFRI, Dehra Dun.

International:

1. Participated in the Online Training Workshop on 'Climate Change & Disaster Risk Reduction' organized by NIDM, MHA, Govt. of India in collaboration with AILSG, Foundation EMDA Southasia and Urban Update on 24th December, 2020.
2. Participated in the Online Webinar organized by IUCN Commission on Ecosystems Management and FAO Mountain Partnership, Rome on 'IUCN Red List of Ecosystems (RLE) Typologies and Principles of Classification: Assessing ecosystem risks for prioritizing conservation in Mountain Ecosystems of S. Asia' on 14th December, 2020.
3. Participated in the Online Webinar 'International Mountain Day: Mountain Biodiversity' held on 11th December, 2020.
4. Participated in the Online Webinar 'An Editor's Guide to Successful Peer Review' organized by LetPub Learning Nexus on 9th October, 2020.
5. Participated in a workshop on 'Scoping Workshop on Canopy Research'; held during 6th August, 2012; organized by Ashoka Trust for Research in Ecology and the Environment Bangalore, India.
6. Participated in a workshop on 'International Workshop on Managing biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions'; held during 21-23, December 2010; organized jointly by JNU, New Delhi & NE Hill Univ., Shillong, India.
7. Participated in a workshop on 'Celebrating International year of Biodiversity' held during 4th February 2010; organized by UNESCO, WFP & TERI, New Delhi.
8. Participated in a workshop on 'International workshop on land management in marginal mountain areas: vulnerability and adaptation to global changes' held during 9-11th November 2009; organized jointly by JNU, New Delhi & NE Hill Univ., Shillong, India.
9. Participated in a workshop on 'Forest canopies: conservation, climate change and sustainable use' held during 25-31st October 2009; organized jointly by Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore & IISc, Bangalore.
10. Participated in a workshop on 'International Joint workshop on Ecological Forecasting: an Indo-US Initiative' held during 27-29th August 2007; organized jointly by NCL, Pune & Univ. of Kansas, USA.
11. Participated in an International workshop on 'Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods in the Marginal Mountain Environment' held during 23-25th Nov., 2006; organized jointly by JNU, New Delhi, UNU Tokyo, Japan & NIRD-NERC- Guwahati.

12. Participated in an International Workshop on 'Regional Cooperation on Conservation of Biodiversity Hotspots of the Indian Subcontinent and Taxonomic Databases for Conservation' held during 30th August – Sept. 1st, 2004; organized jointly by UMAS, Boston, USA & ATREE, Bangalore.
13. Participated in an International Symposium on 'Recent Trends in Plant Ecology and Biodiversity Research' held during 20th-22nd May 2004; organized by Botany Dept., NEHU, Shillong.
14. Participated in an International Conference on 'Tropical Ecosystems: Structure, Diversity and Human Welfare' held during 15-18th July 2001; organized jointly by ATREE, Bangalore & Association of Tropical Biology.

Appreciations:

1. Received the appreciation for publishing the article in the most reputed journal '**Nature**' of the world on 26th Nov., 2019 at the occasion of Gour Jaynti, Dr. Harisingh Gour Vishwavidyalaya Sagar, M.P.
2. Received the appreciation as an expert at 13th Chhattisgarh Young Scientist Congress-2015 (Sponsored by Chhattisgarh Council of Science & Technology) held during 28 February-1 March, 2015 at Indira Gandhi Krishi Vishwavidyalaya, Raipur.
3. Received the appreciation as a Coordinator of High-Level Steering Committee of Third Cycle of Assessment and Accreditation of the Dr. Harisingh Gour Vishwavidyalaya, Sagar by NAACH held during 2015.
4. Received the appreciation as a Judge at Intercollegiate Competitive Events in Biotechnology sponsored by M.P. council of Biotechnology held during 26th March, 2015 at Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P.
5. Received the appreciation as a Judge at National Conference on Evolving Trends in Biotechnology held during 31st March, 2015 at Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya Sagar, M.P.

Short Term Programs attended:

1. Attended AICTE/ISTE Sponsored short term programme on 'Science, Women and Creative Spirit' held during 15-19th March, 2004 at Department of Humanities & Social Science, North Eastern Regional Institute of Science & Technology, Arunachal Pradesh.
2. Attended AICTE/ISTE Sponsored short term training programme on 'Technical Institutions and Entrepreneurial Development: OD Approach' held during 16-26th December, 2003 at Department of Humanities & Social Science, North Eastern Regional Institute of Science & Technology, Arunachal Pradesh.
3. Attended AICTE/ISTE Sponsored short-term training programme on 'Biomedical Imaging' held during 10-21st November, 2003 at Department of Computer Science & Engineering North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
4. Attended AICTE/ISTE sponsored short-term training programme on 'Integrated Management Programme for Effective Management of Technical Institution' held

during 17-28th March, 2003 at Department of Humanities and Social Sciences of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.

5. Attended AICTE/ISTE sponsored short term training programme on Translating ideas into Products and Patents held during 17-28th February, 2003 at Department of Mechanical Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
6. Attended AICTE/ISTE short-term training programme on 'Power Electronics Applications' held during July, 2002 at Department of Electrical Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
7. Attended AICTE/ISTE sponsored short term winter School on 'Mechanical Engineering Design: A concurrent Engineering Approach' held during 2-13th December, 2002 at Department of Mechanical Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
8. Attended a short-term training programme on 'Integrated Watershed Development and Management' held during 17-28th December, 2001 at Department of Agricultural Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
9. Attended a short-term training programme on 'Disaster Management' held during 4-10th October, 2001 at Department of Civil Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
10. Attended an Orientation Training – cum – workshop on 'Plant Genetic Resources Management' held during 27 February to 1 March, 2001 at National Bureau of Plant Genetic Resources (Indian Council of Agricultural Research) Pusa, New Delhi.
11. Attended a short-term course on 'R.S. & GIS Applications in Forestry & Ecology' held during 5 June to 28 July, 2000 at Indian Institute of Remote Sensing, Dehradun.
12. Attended a winter school on 'Recent Trends in Microwave Engineering and Potential Sphere of Applications' held during 19-30 December, 1994 at Department of Electronic & Communication Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
13. Attended a training programme on 'Induction Training for Teachers' held during 18-20 November, 1994 at Department of Civil Engineering of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.
14. Attended the Summer Institute on 'Farming Systems in Hill Agriculture' held during 20-30 July, 1994 at ICAR research Complex for N.E.H. Region, Division of Agricultural Extension, Barpani, Meghalaya.
15. Attended a Summer Institute on 'Advances in Agro-forestry and its role for sustainable Agriculture and Environment' held during 13-27 June, 1994 at National Research Centre for Agro forestry, Jhansi U.P.

16. Attended a Workshop on 'Environmental Education with Reference to Higher Education System' held during 18-30 October, 1991 at North Eastern Hill University, Shillong.
17. Attended a Training programme on 'Social forestry & Wasteland Management in North-Eastern India' held during 18-27 March, 1991 at Regional Centre for Social Forestry and Wastelands Development North Eastern Hill University, Shillong.
18. Attended a Training programme on 'Agro-forestry, Forage production and Animal Nutrition' held during 26 December 1989 to 25 January 1990 at Indian Grassland and Fodder Research Institute, Jhansi.
19. Attended an Orientation in 'Remote Sensing Applications to Forestry & Ecology' held during 27 June – 8 July, 1988 at Indian Institute of Remote Sensing, Dehra Dun.



(M. L. Khan)

Place: Sagar, MP

Date: 29th August, 2022