DR. RAFIUL AMIN LASKAR
Assistant Professor, Department of Botany,
Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya
Eraligool, Karimganj, Assam
E-mail: rafihkd@gmail.com
Mob. No. : +918279468051

OBJECTIVE

- Intend to work in high-tech environment with committed people for research, education and human welfare.

EDUCATIONAL QUALIFICATION

- **2013-2017, Ph.D. in Botany (Genetics and Plant Breeding)** from D/O- Botany, Aligarh Muslim University, Aligarh, U. P. (Awarded on 07, March 2018)
- **2012-2013, DBT - Post M.Sc. Diploma in Plant Tissue Culture and Micropropagation (PDTC)** from Aligarh Muslim University, Aligarh, U.P. with **I Division**.
- **2010-2012**, **Master of Botany (Genetics and Plant Breeding)** from Aligarh Muslim University, Aligarh, U.P. with **I Division**.
- **2007-2010, B.Sc. (Botany)** from **AMU**, Aligarh with **I Division**.
- **2004-2006, AISSCE** (12th) from J.N.V., Hailakandi **CBSE** Board with **I Division**.
- **2004, AISSE** (10th) from J.N.V., Hailakandi **CBSE** Board, with **I Division**.

TECHNICAL EDUCATION

- **2015-2016,** One year "**Diploma in Computer Application, Business Accounting and Multilingual D.T.P."** from Duty Society Centre, Aligarh, NIELIT, India.

SOFTWARE SKILLS

Operating Systems	:	Microsoft windows, macOS, Android, iOS
Other Software	:	MS Word, MS Excel, PowerPoint, Photoshop.
Statistical Software	:	SPSS and R

LANGUAGES

- English, Hindi, Bengali and Assamese.

RESEARCH EXPERIANCES

- Submitted tour report on "**Ecological diversity of Shimla, H.P., India.**" (2011).
- M.Sc. Dissertation on "**Studies on the induction of variability in *Vicia faba* L.**" (2010-12).
- DBT-PDTC Dissertation on "***In vitro* morphogenesis of *Cassia alata* L. using different plant growth regulators**" (2012-13).
- DST-PURSE Programme "**Research Assistant**" in Department of Botany, AMU, Aligarh (2013-2013)
- Ph.D. research works on "**Studies on the induction of mutation for improvement of yield and yield attributing traits in Lentil (*Lens culinaris* L.)**" (2013-2017).
- Assistance in guiding **Project work of Nine M.Sc. students** in Dept. of Botany, A.M.U., Aligarh (2013-2018).

TEACHING EXPERIANCES

- Assistant Professor, Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya Eraligool, Karimganj, Assam (02/06/2023 Contd.).
- Assistant Professor, Department of Botany, Bahona College, Jorhat, Assam (10/02/2020 – 01/06/2023).
- Assistant Professor, Department of Botany, University of Science & Technology, Meghalaya for B.Sc., M.Sc. semesters and Ph.D. Course work syllabus on Cytogenetics and Plant Breeding (01/08/2019 – 31/01/2020).

- Guest Faculty in Department of Botany, Nagaland University, Lumami, Nagaland for M.Sc. semesters and Ph.D. Course work syllabus on Cytogenetics and Plant Breeding (01/05/2018 – 20/06/2019).
- Assistant Professor (Contractual) in Department of Botany, S. S. College, Hailakandi, Assam for B.Sc. (Hons.) syllabus on Botany (15/03/2018 – 30/04/2019).

ADMINISTRATIVE ENGAGEMENTS

- Programme Coordinator for Star College Scheme, DBT, Govt. of India.
- Co-Coordinator, Institutional Biotech-Hub, Bahona College, Jorhat, Assam, India.
- Placement Cell Member of IQAC, Bahona College, Jorhat, Assam, India.
- Technical Team Member of IQAC, Bahona College, Jorhat, Assam, India.

AWARDS AND ACHIEVEMENTS

- Awarded, "**The Kirkhouse Trust Training Grant, Cambridge, UK**" in 2018.
- Awarded, **"ECHO Asia - Best Quality of Content"** Medal and Certificate by ECHO Asia Impact Center, **Chiang Mai, Thailand** in 2017.
- Awarded, "**The NFP fellowship**" by the Dutch Ministry of Foreign Affairs, **The Netherlands** in 2014 & 2016.
- Qualified, "**SLET-NE Life Science**" in 2016.
- Awarded, "**UGC-MAN-JRF**" in 2016.
- Appointed, "**DST-PURSE FELLOW**" in 2013.
- Qualified, "**GATE Life Science**" in 2012.
- Received, Sultan Jahan "**Washington DC Scholarship**" from 2008 to 2012.
- Received, Certificate of Excellence from "**Assam Science Society**" in 2004.
- Attended, Chief Ministers Educational Excursion "**Gyan Jyoti Programme**" of Govt. of Assam in 2004.
- Received, Prize for meritorious performance in "**8th National 'Youth Parliament' Competition**" organized by Navodaya Vidyalaya Samiti in 2004-05.
- Participated in "**Suraksha Chetana Rally**" by 13th BN SSB Piprakothi (Bihar) in 2003.
- Received, Many other Sports and Extra Curricular Activity Certificates.

EDITORIAL

- Appointed as Associate Editor of **Frontiers in Horticulture**
- Appointed as Associate Editor of **Journal of Intellectuals**
- Appointment for the honorary post of Editorial Board Member of **Plant Cell Biotechnology and Molecular Biology**, International Knowledge Pres.
- "**Legume Breeding in Transition: Innovation and Outlook**" in Frontiers in Genetics, 2021. https://www.frontiersin.org/research-topics/23475.
- "**Advanced Crop Improvement: Molecular Approaches Corroborate Classical Genetics**" Springer Nature Switzerland AG, Gewerbestrasse 11, 6330 Cham, Switzerland (ongoing).

INVITED TALK

- Speaker in the National Level Online Workshop on "**Project Report Writing**" organized by *Institutional Biotech-Hub, Bahona College, Jorhat, Assam, India* on 15th August, 2021.

RESEARCH PROJECT

- Co-PI in project entitled "DBT-NER Institutional Biotech Hubs at Bahona College, Jorhat Assam with Focused Area 'Development of Infrastructure and Skilled Human Resources Through Science & Technology Intervention" from 2023-2026.

RESEARCH PUBLICATIONS

1. Bhuyan, B. Senapati, P., Akhtar, S., Ahmed, R., **Laskar, R. A.**, and Tayung, K. (2023). Antimicrobial Activity of Endophytic Fungi Isolated from a Traditionally Important Plant of NE

India– *Litsea chinensis* Lam. Annals of Biology, 39(1):1-6.

2. Hasan, N., Choudhary, S., **Laskar, R. A.**, Naaz, N., Sharma, N. (2022). Comparative study of cadmium nitrate and lead nitrate [$Cd(NO_3)_2$ and $Pb(NO_3)_2$] stress in cyto-physiological parameters of *Capsicum annuum* L. Horticulture, Environment, and Biotechnology, 63:627–641. ISSN: 2211-3460 https://doi.org/10.1007/s13580-021-00417-z
3. Raina, A., Wani, M. R., **Laskar, R. A.**, and Khan, S. (**2022**). Chemical mutagenesis: role in breeding and biofortification of lentil (*Lens culinaris* Medik) mutant lines. Molecular Biology Reports. ISSN: 0301-4851 (print); 1573-4978 (web) https://doi.org/10.1007/s11033-022-07678-6
4. Raina A, **Laskar, R. A.**, Wani MR, Jan BL, Ali S and Khan S (**2022**). Gamma Rays and Sodium Azide Induced Genetic Variability in High-Yielding and Biofortified Mutant Lines in Cowpea [*Vigna unguiculata* (L.) Walp.]. Front. Plant Sci. 13:911049. ISSN: 1664-462X doi: 10.3389/fpls.2022.911049
5. Raina, A., **Laskar, R. A.**, Wani, M. R., Jan, B. L., Ali, S. and Khan, S. (**2022**). Comparative Mutagenic Effectiveness and Efficiency of Gamma Rays and Sodium Azide in Inducing Chlorophyll and Morphological Mutants of Cowpea. Plants, 11:1322. ISSN: 2223-7747. https://doi.org/10.3390/plants11101322
6. Rasika, S., Raina, A., **Laskar, R.A.**, Wani, M.R., Reshif, Z.A., Khan, S., Ndhlalag, A.R. (2022). Lower doses of sodium azide and methyl methanesulphonate improved yield and pigment contents in vegetable cowpea [*Vigna unguiculata* (L.) Walp.]. South African Journal of Botany, 148: 727-736. ISSN: 0254-6299. https://doi.org/10.1016/j.sajb.2022.04.034
7. Roy, P., Bhuyan, P., Ahmed, R., Akhtar, S. and **Laskar, R.A.** (2022). An Investigation into the Potential of Developing a Method for Rapid Callus Induction and Micropropagation of *Wedelia chinensis* (Osbeck) Merr. – An Important Medicinal Herb. Research Journal of Agricultural Sciences. 13(3): 704–709. ISSN: 0976-1675.
8. Goyal, S., Wani, M. R., Raina, A., **Laskar, R. A.** and Khan, S. (2021). Quantitative assessments on induced high yielding mutant lines in urdbean [*Vigna mungo* (L.) hepper]. Legume Science, e125. ISSN: 2639-6181 https://doi.org/10.1002/leg3.125
9. Khan, T. U., Chowdhury, B. and **Laskar, R. A. (2021).** Agrotechnology of Schumannianthus dichotomus (Roxb.) Gagnepain: A Less Known Rhizomatous Herb of North East India. Research Journal of Agricultural Sciences. 12: 1804–1810. ISSN: 0976-1675.
10. Khan, T. U. and **Laskar, R. A. (2021).** *In silico* bioactivity analysis of the natural product isolated from *Homalomena aromatica* (Roxb.) Schott. Research Journal of Agricultural Sciences, 12: 1458–1461. ISSN: 0976-1675.
11. Goyal, S., Wani, M. R., Raina, A., **Laskar, R. A.** and Khan, S. (2021). Phenotypic diversity in mutagenized population of urdbean (*Vigna mungo* (L.) Hepper). Heliyon, 7: e06356. https://doi.org/10.1016/j.heliyon.2021.e06356 ISSN: 2405-8440
12. Wani, M. R., **Laskar, R. A.**, Raina, A., Khan, S. and Khan, T. (2021). Application of Chemical Mutagenesis for Improvement of Productivity Traits in Lentil (*Lens culinaris* Medik). Annals of Biology, 37(1): 69-75. ISSN: 0970-0153.
13. Raina, A., **Laskar, R. A.**, Wani, M. R., Khursheed, S., Khan, S. (2020). Characterization of induced high yielding cowpea mutant lines using physiological, biochemical and molecular markers. *Scientific Reports* (Nature). 10(3687): 1-22. ISSN: 2045-2322.
14. **Laskar, R. A.**, Sheikh, N., Hajong, S. and Khan, T. (2020). Optimization of EMS and DES treatments for induction of mutations in quantitative traits of maize. *Plant Cell Biotechnology and Molecular Biology*, 21(43&44):134-143. ISSN: 0972-2025.
15. Hasan, N., Choudhry, S. and **Laskar, R. A.** (2020). The effects of heavy metals on chromosomal structure and chlorophyll contents in chilli variety NS 1701 DG. *International Journal of Current Agricultural Sciences*, 10:450-455. ISSN: 2277-1026
16. Hasan, N., Choudhry, S. and **Laskar, R. A.** (2020). Studies on qualitative and quantitative characters of mutagenized chili populations induced through MMS and EMS. *Vegetos* (Springer), 33:793-799. ISSN 2229-4473.
17. Sheikh, N., Patowary, H. and **Laskar, R. A.** (2020). Screening of cytotoxic and genotoxic potency

of two pesticides (malathion and cypermethrin) on *Allium cepa* L. *Molecular & Cellular Toxicology*, 16(3): 291-299. ISSN: 1738-642X.

18. Goyal, S., Wani, M. R., **Laskar, R. A.**, Raina, A. and Khan, S. (2020). Performance evaluation of induced mutant lines of black gram (*Vigna mungo* (L.) Hepper). *Acta fytotechn zootechn*, 23(2): 70–77. ISSN: 1336-9245.
19. Goyal, S., Wani, M. R., **Laskar, R. A.**, Raina, A. and Khan, S. (2020). Mutagenic Effectiveness and Efficiency of Individual and Combination Treatments of Gamma Rays and Ethyl Methanesulfonate in Black Gram [*Vigna mungo* (L.) Hepper]. *Advances in Zoology and Botany*, 8(3): 163-168. ISSN: 2331-5091.
20. Goyal, S., Wani, M. R., **Laskar, R. A.**, Raina, A. and Khan, S. (2019). Assessment on cytotoxic and mutagenic potency of Gamma rays and EMS in *Vigna mungo* L. Hepper. *Biotecnología Vegetal*, 19(3): 193 - 204. ISSN: 2074-8647.
21. Goyal, S., Wani, M. R., **Laskar, R. A.**, Raina, A., Amin R. and Khan, S. (2019). Induction of Morphological Mutations and Mutant Phenotyping in Black gram [*Vigna mungo* (L.) Hepper] using Gamma Rays and EMS. *Vegetos* (Springer) 32:464–472. ISSN: 2229-4473.
22. **Laskar, R. A.,** Wani, M. R., Raina, A., Amin R. and Khan, S. (2018). Morphological characterization of gamma rays induced multipodding mutant (*mp*) in lentil cultivar Pant L 406. *International Journal of Radiation Biology*, 94(11):1049-1053. ISSN: 0955-3002.
23. Khursheed, S., Raina, A., **Laskar, R. A.** and Khan, S. (2018). Effect of gamma radiation and EMS on mutation rate: their effectiveness and efficiency in faba bean (*Vicia faba* L.). *Caryologia: International Journal of Cytology, Cytosystematics and Cytogenetics*, 71(4):397-404. ISSN: 0008-7114.
24. **Laskar, R. A.,** Laskar, A. A., Raina, A., Khan, S. and Younus, H. (2018). Induced mutation analysis using biochemical and molecular characterization of high yielding lentil mutant lines. *International Journal of Biological Macromolecules*, 109:167-179. ISSN: 0141-8130**.**
25. Tazniun, T., **Laskar, R. A.,** Amin, R., Khan, S. and Parveen, K. (2018). Effects of different mutagenic doses and durations in lentil (*Lens culinaris* Medik.) cultivars Pant L 406 and DPL 62. *Legume Research*, 41(4):500-509. ISSN-0250-5371.
26. Hasan, N., **Laskar, R. A.**, Raina, A. and Khan, S. (2018). Maleic hydrazide induced variability in fenugreek (*Trigonella foenum-graecum* L.) cultivars CO1 and Rmt-1. *Research & Reviews: Journal of Botanical Sciences*, 7(1):19-28. ISSN: 2320-0189.
27. **Laskar, R. A.,** Chaudhary, C., Khan, S. and Chandra, A. (2018). Induction of mutagenized tomato populations for investigation on agronomic traits and mutant phenotyping. *Journal of the Saudi Society of Agricultural Sciences*, 17:51-60. ISSN: 1658-077X.
28. Khan, T. U., **Laskar, R. A.** and Debnath, B. (2018). Studies on the effects of ultraviolet irradiation on pea (*Pisum sativum* L.). *International Journal of Genomics and Data Mining*, 2018(2):1-7. ISSN: 2577-0616
29. **Laskar, R. A.** and Khan, S. (2017). Assessment on induced genetic variability and divergence in the mutagenized lentil populations of microsperma and macrosperma cultivars developed using physical and chemical mutagenesis. *PLoS ONE* 12(9):e0184598. ISSN: 1932-6203.
30. Wani, M. R., Dar, A. R., Tak, A., Amin, I., Shah, N. H., Rehman, R., Baba, M. Y., Raina, A., **Laskar, R. A.,** Kozgar, M. I. and Khan, S. (2017). Chemo-induced pod and seed mutants in mungbean (*Vigna Radiata* L. Wilczek). *SAARC J. Agri.*, 15(2): 57-67. ISSN: 1682-8348.
31. **Laskar, R. A.** and Khan, S. (2017). Mutagenic effectiveness and efficiency of gamma rays and HZ with phenotyping of induced mutations in lentil cultivars. *International Letters of Natural Sciences.* 64:17-31. ISSN: 2300-9675.
32. Raina, A., **Laskar, R. A.,** Khursheed, S., Khan, S., Parveen, K., Amin, R., Khan, S. (2017). Induce physical and chemical mutagenesis for improvement of yield attributing traits and their correlation analysis in chickpea. *International Letters of Natural Sciences.* 61:14-22. ISSN: 2300-9675.
33. **Laskar, R. A.,** Amin, R., and Khan, S. (2017). Evaluation of optimal doses for gamma rays and hydrazine hydrates in lentil genotypes. *Trends in Biosciences.* 10(27):5822-5825.
34. Chandra, A., **Laskar, R. A.,** Amin, R. and Khan, S. (2016). Induction of genetic variation in

agronomic traits of chickpea using MMS and HZ. *Gyan Vigyan Journal of Science*, 3:23-32.

35. Khursheed, S., **Laskar, R. A.,** Raina, A., Amin, R. and Khan, S. (2015). Comparative analysis of cytological abnormalities induced in *Vicia faba* L. genotypes using physical and chemical mutagenesis. *Chromosome Science*, 18:47-51. ISSN:1344-1051.
36. Amin, R., **Laskar, R. A.** and Khan, S. (2015). Assessment of genetic response and character association for yield and yield components in Lentil (*Lens culinaris* L.) population developed through chemical mutagenesis. *Cogent Food & Agriculture*, 2: 1000715. ISSN: 2331-1932.
37. **Laskar, R. A.,** Khan, S., Khursheed, S., Raina, A. and Amin, R. (2015). Quantitative analysis of induced phenotypic diversity in chickpea using physical and chemical mutagenesis. *Journal of Agronomy*, 1-10.
38. **Laskar, R. A.** and Khan, S. (2014). Mutagenic effects of MH and MMS on induction of variability in broad bean (*Vicia faba* L.). *Annual Research & Review in Biology*, 4(7):1129-1140.

REVIEW

1. **Laskar, R. A.** and Barbhuiya, S. A. (2022). Sustainable seed sector development in India: An Outlook. ACTA, Jorhat Zone Annual Journal: *The Watchword*. 09:39-47. ISSN: 2321-189X.
2. Hasan, N., Choudhary, S., Naaz, N., Sharma, N and **Laskar, R. A.** (2021). Recent advancements in molecular marker-assisted selection and applications in plant breeding programmes. *Journal of Genetic Engineering and Biotechnology*, 19(128). https://doi.org/10.1186/s43141-021-00231-1 ISSN: 2090-5920
3. Raina, A., Sahu, P. K., **Laskar, R. A.,** Rajora, N., Soa, R., Khan, S. and Ganai, R. A. (2021). Mechanisms of genome maintenance in plants: playing it safe with breaks and bumps. *Frontiers in Genetics*. doi: 10.3389/fgene.2021.675686 ISSN: 1664-8021
4. Raina, A., **Laskar, R. A.,** Khursheed, S., Amin, R., Tantray, Y. R., Parveen, K and Khan, S. (2016). Role of mutation breeding in crop improvement- Past, Present and Future. *Asian Research Journal of Agriculture.* 2(2): 1-13.

BOOK

1. Raina, A., Wani, M.R., **Laskar, R.A.,** Tomlekova, N., Khan, S., (2021). "Advanced Crop Improvement: Molecular Approaches Corroborate Classical Genetics" Springer Nature Switzerland AG, Gewerbestrasse 11, 6330 Cham, Switzerland. (Ongoing)
2. **Laskar, R. A.,** Khan, H. and Khan, S. (2015). Chemical Mutagenesis: Theory and Practical Application in *Vicia faba* L. *Lap Lambert Academic Publication*, Germany. ISBN: 978-3-659-70992-0.

BOOK CHAPTER

1. Raina, A., **Laskar, R.A.,** Wani, M.R., Khan, S. (2022). Plant Breeding Strategies for Abiotic Stress Tolerance in Cereals. In: Roychoudhury, A., Aftab, T., Acharya, K. (eds) Omics Approach to Manage Abiotic Stress in Cereals. Springer, Singapore. https://doi.org/10.1007/978-981-19-0140-9_8. ISBN: 978-981-19-0139-3.
2. Raina, A., **Laskar, R. A**., Malik, S., Wani, M. R., Bhat., T. A. and Khan, S. (2021). Plant Mutagenesis: Principle and Application In Crop Improvement. In: *Mutagenesis, Cytotoxicity and Crop Improvement: Revolutionizing Food Science*. (ed) T. A. Bhat. Cambridge Scholars Publishing, U.K., pp. 38-65. ISBN: 1-5275-6296-4.
3. Goyal, S., Wani, M. R., **Laskar, R. A**., Khan, S. and Bhat., T. A. (2021). Individual and Simultaneous Treatments Of Gamma Rays and Ethyl Methane Sulfonate Induced Genetic Variability for Plant Height in Urdbean (*Vigna mungo* (L.) Hepper). In: *Mutagenesis, Cytotoxicity and Crop Improvement: Revolutionizing Food Science*. (ed) T. A. Bhat. Cambridge Scholars Publishing, U.K., pp. 159-170. ISBN: 1-5275-6296-4.
4. Wani, M. R., Tomlekova, N., Raina, A., **Laskar, R. A**., Khursheed, S., Khan, S., Tak, M. A. and Bhat., T. A. (2021). Mutation Breeding Technique for The Improvement of Pulse Crops with Special Reference to Faba Bean (*Vicia faba* L.). In: *Mutagenesis, Cytotoxicity and Crop Improvement:*

Revolutionizing Food Science. (ed) T. A. Bhat. Cambridge Scholars Publishing, U.K., pp. 222-243. ISBN: 1-5275-6296-4.

5. **Laskar, R. A**., Wani, M. R., Khan, S., Deb, C. R., Khan, T. U. and Bhat., T. A. (2021). Induced Chromosomal Aberrations in Grain Legumes: Lens Culinaris Medik. In: *Mutagenesis, Cytotoxicity and Crop Improvement: Revolutionizing Food Science*. (ed) T. A. Bhat. Cambridge Scholars Publishing, U.K., pp. 244-264. ISBN: 1-5275-6296-4.
6. **Laskar, R. A**., Khan, S., Deb, C. R., Tomlekova, N., Wani, M. R., Raina, A. and Amin, R. (2019). Lentil (*Lens culinaris* Medik.) Diversity, Cytogenetics and Breeding. In: *Advances in Plant Breeding Strategies: Cereals and Legumes.* (eds.) J. M. Al-Khayri, S. M. Jain and D. V. Johnson. Springer International Publishing, pp. 319-370. ISBN 978-3-030-23399-0.
7. Raina, A., Khan, S., Wani, M. R., **Laskar, R. A**. and Mushtaq, W. (2019). Chickpea (Cicer arietinum L.) Cytogenetics, Genetic Diversity and Breeding. In: *Advances in Plant Breeding Strategies: Cereals and Legumes.* (eds.) J. M. Al-Khayri, S. M. Jain and D. V. Johnson. Springer International Publishing, pp. 53-112. ISBN 978-3-030-23399-0.
8. Raina, A., **Laskar, R. A**., Jahan, R., Amin, R., Khursheed, S., Wani, M. R., Nisa, N. T. and Khan, S. (2018). Mutation breeding for crop improvement. In: *Introduction to challenges and strategies to improve crop productivity in changing environment*. (eds.) M. W. Ansari, S. Kumar, B. C. Kaula, R. K. Wattal. pp. 293-307. Enriched Publications Pvt. Ltd., New Delhi, ISBN: 978-81-934634-9-9.
9. Khan, H., **Laskar, R. A.** and Khan, S. (2015). Comparative estimation of induced cytotoxicity and mutagenic potency of EMS and SA using *Vicia faba* L. as a biological system. In: *Advances in Plant Science and Biotechnology*. (eds.) S. Krishnan and B. F. Rodrigues. pp.172-186. Goa University, ISBN: 978-81-908791-4-9.

CONFERENCE PROCEEDINGS: FULL PAPER

1. Amin, R., **Laskar, R. A.,** Khursheed, S., Raina, A., Khan, S. (2016). Genetic sensitivity towards MMS mutagenesis assessed through *in vitro* growth and cytological test in *Nigella sativa* L. In: *Life Sciences International Research Journal*. 3(Spl. Issue):1-9, International Multidisciplinary Research Foundation (IMRF) Goa Chapter, Margao, Goa, India. ISSN: 2347-8691.
2. **Laskar, R. A.** and Khan, S. (2014). Quantifying the efficacy of physical (gamma rays), chemical (HZ) and combined mutagen treatments in Lentil (*Lens culinaris* Medik.). In: *Exploring Basic and Applied Sciences for Next Generation Frontiers,* (eds.) N. R. Sharma, L. Parihar, R. C. Thakur, G. Kumar & M. Sharma. 16-19. Elsevier, India, ISBN: 978-93-5107-313-0.

CONFERENCES/ SEMINARS

1. **Laskar, R. A.** and Khan, S. (2017). Induction of mutation for improvement of yield and yield attributing traits in lentil (*Lens culinaris* Medik.). In: "*6th Biennial ECHO Asia Agriculture & Community Development Conference*". ECHO Asia Impact Center "Improving Lives", Chiang Mai, THAILAND. October 03 - 06, 2017. (Grants: UGC+EAIC).
2. **Laskar, R. A.,** Raina, A. and Khan, S. (2016). Phenotypic and Biochemical analysis of gamma rays induced lentil mutants. In: *International conference on Translational Biotechnology: Biosangam-2016*. MNNIT, Allahabad, U.P., India. February 4-6, 2016.
3. **Laskar, R. A.,** Raina, A., and Khan, S. (2015). Assessment of induced genetic variability in agronomic traits of Lentil (*Lens culinaris* Medik.) cultivars using Hydrazine hydrates (Hz). In: *11th JK Science Congress: Scientific, Social and Economic Dimension of Climate Change*. University of Kashmir, Srinagar. October 12-14, 2015.
4. **Laskar, R. A.** and Khan, S. (2015). Employing induced mutation technique for the improvement of agronomic traits in Lentil (*Lens culinaris* Medik.) cultivars. pp. 14. In: *International conference on Agricultural, Food Engineering and Environmental Sciences- Sustainable Approaches*. J.N.U., New Delhi, May 9-10, 2015.
5. **Laskar, R. A.** and Khan, S. (2014). Enhancement of genetic variability through chemical mutagenesis in broad bean. *Agrotechnology 2(4): 254.* In: *2nd International Conference on Agricultural &*

Horticultural Sciences. Omics International, Radisson Blu Plaza Hotel, Hyderabad, February 03-05, 2014.

6. **Laskar, R. A.** and Khan, S. (2013). Induced variation in *Vicia faba* by chemical mutations. In: *National Seminar on Trends & Advances in Plant Sciences*. Department of Botany, Aligarh Muslim University, Aligarh, U. P., September 21-22, 2013.
7. **Laskar, R. A.** and Khan, S. (2016). Induce Mutagenesis for improvement of Lentil genetic diversity. In: "*International Conference on Science, Technology, Women Studies, Business and Social Sciences*". International Multidisciplinary Research Foundation (IMRF) Goa Chapter, Margao, Goa, India. November 03-05, 2016.
8. Khan, S., Taziun T. and **Laskar, R. A.** (2016). Differential effects of concentration and duration of mutagenic treatments in induction of variability in Lentil cultivars. In: *National Seminar on "Advances in Plant Science Frontier: Development and Environment"*. Gandhi Faiz-e-Aam College, M.J.P. Rohilkhand University, Shahjahanpur, U.P. India. November 26-27, 2016.

WORKSHOP/TRAINING/SHORT COURSE/FIP

International

1. Completed, the international course on "**Agriculture in Transition: Between tradition, innovation and visioning: Building new models for the future**" held in *Centre for Development Innovation (CDI), Wageningen University, Netherlands* under the Netherlands Government (**NFP fellowship**) from 4 April to 15 April in 2016. (12 days).
2. Completed, the International Training Programme on "**Plant Genetic Resources and Seeds: Policies, conservation and use**" held in *M. S. Swaminathan Research Foundation, Jeypore and Chennai, India*, in collaboration with the *Centre for Development Innovation (CDI), Wageningen University, Netherlands* under the Netherlands Government (**NFP fellowship**) from 27 Oct to 14 Nov in 2014. (21 days).

National

1. Participated, National workshop on "**Bioinformatics and Data mining**" organized by the *BTIS-NET Sub-Distributed Information Centre, NIPGR*, New Delhi, on 22-23 March, 2017.
2. Participated, XXXIII- UGC NRCBS Winter School on "**Differential Gene Expression in Plants and Bacteria**" organized by *UGC-Networking Resource Centre in Biological Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai, India*, from 1 February to 14 February, 2017 (14 days).
3. Participated, Workshop on "**Research Methodology**" organized by *Sir Syed Hall, Aligarh Muslim University, Aligarh*, on 12 March, 2016.
4. Completed, Hands on Training on "**Molecular Techniques in Biotechnology**", held in *MNNIT, Allahabad* from 16 January to 22 January, in 2015. (7 days).
5. Completed, Off-Campus Outreach Certificate Program on "**Application of Remote Sensing & GIS for Natural Resources**" conducted by NNRMS, *Indian Institute of Remote Sensing, Indian Space Research Organisation, Department of Space, GoI*, from 27 January to 27 March, 2015 (2 months).
6. Participated, Pre-conference workshop cum practical training programme on "**Proficiency in Advanced Instrumental Methods of Analysis**" organized *DRS I, Department of Ilmul Advia F/o Unanai medicine, Aligarh Muslim University, Aligarh*, in 2015.
7. Attended, First High-Profile International Conference on "**Intellectual Crisis of Muslim Ummah: Rethinking Traditional Solutions**" organized by *Centre for Promotion of Educational and Cultural Advancement of Muslims in India, at Aligarh Muslim University*, from 6 April -7 April, in 2015.

Webinar

1. Participated, "**COVID-19: The pandemic of mistreated biodiversity and its impact on environment**" organized by *Department of Botany, Biswanath College, Biswanath Chariali, Assam*, on 12 June, 2020.
2. Participated, International webinar on "**Covid-19 impacts and implications on Environment**" organized by *Department of Environmental Sciences, Central University of Jharkhand, Ranchi* on 11 August, 2020.

3. Participated, Webinar on "**Awareness programme on use of online resources**" organized by *Central Library & IQAC, MCD College, Silchar and Assam College Library Association (ICT Cell)*, on 8 June, 2020.
4. Participated, National Webinar on "**Transforming Indian higher education: A Journey from NPE, 1986 to NEP, 2020**", organized by *ZSA Unit of Bahona College, Jorhat and Majuli College, Majuli and Zoological Society of Assam*, on 6 September, 2020.
5. Participated, National Webinar on "**Post Covid India and Scenario of Higher Education: Challenges and Opportunity**" organized by *Cinnamara College, Jorhat and IGNOU Regional Centre, Jorhat, Assam*, on 1 August, 2020.
6. Participated, National Webinar On "**Teacher Education After Covid-19: Challenges and Possibilities"** organized by Teachers' Training College, Bhagalpur, Bihar, on 28-29 May, 2020.

Training/Workshop

1. Participated, Hands on training on "**Google Earth Pro and QGIS**" organized by *Balipara Foundation, Assam and Students' Grievance Redressal Cell, IQAC, Bahona College, Jorhat, Assam*, on 6 August, 2020.
2. Completed, Two Day Workshop on "**Online Basic Training on Use of ICT in Teaching**" organized by *Teaching Learning Centre, Tezpur University under PMMMNMTT Scheme of Ministry of Human Resource Development, Government of India,* from 20 April to 23 April, 2020.

Faculty Development Programme / Refresher Courses

1. Completed, 1-Month **Faculty Induction Programme** organized by *UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh, India,* from 17 July 2021 to 24 August 2021.
2. Completed, 2-Week Faculty Development Programme on "**Research Methodology**" organized by *Teaching Learning Centre, Ramanujan College University of Delhi under PMMMNMTT Scheme of Ministry of Human Resource Development, Government of India,* from 01 October – 15 October, 2020.

REFERENCE

Prof. Samiullah Khan
Mutation Breeding Laboratory,
Department of Botany,
Aligarh Muslim University,
Aligarh-202 002, U.P., India.
E-mail.: khan_drsami@yahoo.co.in

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

DIGITAL IDENTIFIER

https://www.researchgate.net/profile/Rafiul-Laskar
https://publons.com/wos-op/researcher/K-5865-2014/
https://orcid.org/0000-0002-4279-3972
https://loop.frontiersin.org/people/1347652/overview
https://www.scopus.com/authid/detail.uri?authorId=56785767700

Place: Karimganj, Assam, India
Date: 02/06/2023

Rafiul Amin Laskar
(Rafiul Amin Laskar)