महात्मा ज्योतिबा फुले
रूहेलखण्ड विश्वविद्यालय, बरेली

Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Mohd. Gufran	Last Name	Khan	Photograph
Designation		Professor of Practice				
Department		Faculty of Agriculture Science & Technology				
Address (Residence)		121, Avas Vikas Colony, Civil Lines Bareilly-243001, Uttar Pradesh (India).				
Mobile		9870911512				
Fax		NA				
Email		drgufran.khan78@gmail.com				
Web-Page		Orchid ID: LinkedIn ID: https://www.linkedin.com/in ResearchGate ID: https://www.researchgate.net				

Educational Qualifications (Graduation Onwards)

Course/Degree	Institution	Year	Details/Thesis Topic/Subjects
B. Sc	MJP Rohilkhand University, Bareilly U.P.	1980	Botany Zoology Chemisrty
M. Sc	MJP Rohilkhand University, Bareilly U.P	1982	Botany
Ph. D	MJP Rohilkhand University, Bareilly U.P	1990	Botany (SalinityStress Physiology
Post Doc	Ben- Gurion University, Israel	1992-93	Biomass Production under saline irrigation

Career Profile

Organization / Institution	Designation	Duration	Role
MJP Rohilkhand University, Bareilly	Professor (POP)	November, 2025 To till Date	Teaching and Research
Samara University Afar Ethiopia	Professor	Oct 2013 To July , 2025	Teaching, Research and community service
Arba Minch University Ethiopia	Assistant Professor	Dec, 2008 To June 2013	Teaching and Research
Dr.BR Ambedkar University S. L. S. Khandari campus Agra India	Assist. Professor (Cont,)	September,1999 To Nov 2008	Teaching and Research
GB Pant University of Agric &Tech Pantnagar UK India	Teaching Associate	1998-1999	Teaching and Research
CSIR Pool Scientist (at MJP (Rohilkhand University) Bareilly India	Pool Scientist(SRA)	Sep 1994- Sep1997	Teaching and Research
Jacob Blaustein Institute For Desert research (Ben Gurion University) Israel	Post Doc Fellow	1992-1993	Research

Research Interests / Specialization

Salinity stress , Plant mineral Nutrition, industrial pollution ,

Teaching Experience (Subjects/Courses Taught)

30 years of teaching (UG & PG) and research experience at various Universities in India and abroad.

Honors & Awards

- **Former Senate Member , Samara University Afar Ethiopia 2020-23**
- **Best Researcher Samara University, Ethiopia**
- **Members of various scientific Societies and Editorial committees**

Publications /Academic Activities (Numbers Only)

Research Papers Published in International Journals	**64**	**Paper/Poster Presented in Seminars/ Conferences**	**03**	**Workshops & Trainings**	**08**
Research Papers Published in Other Journals	**03**	**Seminar/ Conferences Attended**	**10**	**Faculty development Programs**	**03**
Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	**07**	**Membership of Academic/ Professional Bodies**	**01**	**Database Contribution**	**01**

List of Publications
(Prof. M. Gufran Khan Ph.D)

1.Khan M.G. and K.A.Varshney (1986)	Effect of IAA, GA_3, Zeatin and their combinations on early growth stages of lobia (*Phaseolus lunatus* L.) Agric.Res.Commu. 1(1): 23-26
2.Khan M.G. and K.A.Varshney (1988)	Differential geneotypic behaviour of soybean (*Glycine max* L.Merr.) for tolerance to salt stress. Biosci.Res.Bull. 491-2):24-32
3.Khan M.G. and K.A.Varshney (1988)	Nodulation, leghaemoglobin contents and number of roots in two cultivars of soybean under salt stress.Vegetos 1(2): 95-100
4. Khan M.G. and K.A.Varshney (1989)	Studies on various forms of nitrogen and proteolytic activity in soybean (*Glycine max* L.Merrill) under salt stess.Bangl.J.Bot 18(1):95-97
5. Khan M.G. and K.A.Varshney (1989)	Influence of salt stress on sodium and potassium concentrations in two cultivars of soybean(*Glycine max* L. Merrill) Indian J. Plant Physiol. 32(2): 369-371
6. Khan M.G. and K.A.Varshney (1989)	Effect of Rubber factory effluents on growth parameters of some forage crops.Vegetos 2(2): 261-264
7. Khan M.G. and K.A.Varshney (1989)	Effect of Rubber factory effluents on chlorophyll contents of some forage crops. Paper Present. in National Seminar held at Kanpur India 1989.
8. Khan M.G. and K.A.Varshney (1989)	Chemical composition of effluents of Rubber factory Bareilly. Paper Present. in National Seminar held at Kanpur India 1989
9. Khan, M.G.(1987)	Genetic Engineering :Science Ka Karishma In Bareilly College Annual Magazine (Urdu)
10. Khan M.G. and K.A.Varshney (1990)	Accumulation of Betaine and choline in *Glycine max* L. under salts stress. J.Indian Bot. Soc.69:401-404
11. Khan M.G.,A.K.S.Gehlot and K.A.Varshney (1992)	Effect of Rubber factory effluents on seed germination and early seedling growth of some leguminous crops. Bangl.J.Bot. 21(2):262-363
12.Khan M.G.(1992)	Effect of salt stress on nitrate reductase activity in some leguminous crops.Paper present. In International seminar on Inorganic Nitrogen assimilation held at Tiberia(Israel).
	Studies on yield attributes of soybean(*Glycine*

	max L.Merrill) under salt stress.J.Indian Bot.soc.,72:135-137.
13. Khan M.G.(1993)	Physiological studies on salinity and nitrogen interaction in alfalfa I- Biomass production and root development. J.Plant Nutrition 17(4):657-668
14. Khan M.G.,M.Silberbush and S.H.Lips(1994)	Physiological studies on salinity and nitrogen interaction in alfalfa II..Photosynthesis and Transpiration J.Plant Nutrition 17(4):669-682
15. Khan M.G.,M.Silberbush and S.H.Lips(1994)	Effect of salt stress on nitrate reductase activity in some leguminous crops. Indian J. Plant Physiol.37(3):185-187
16. Khan M.G.(1994)	Inorganic nitrogen nutrition in alfalfa under saline conditions. Paper abstracted in Proceed.in International symposium on Inorganic Nitrogen Assimilation held at Seeheim Darmstadt(Germany).
17. Khan M.G.(1995)	Physiological studies on salinity and nitrogen interaction in alfalfa I-Nitrate Reductase activity. J.Plant Nutrition 18(III) 2495-2500
18. Khan M.G.,M.Silberbush and S.H.Lips(1995)	H^+-ATPase activity; A messege in salinity response. Physiol.& Mol. Biol. Plants 2(2):1-2
19. Khan, M.G.(1996)	Nitrate and nitrite reductase activity in soybean plants raised with saline water.Indian J. Plant Physiol. Vol1(No.2)N.S.128-29
20.Khan, M,G,(1996)	Effect of nitrogen nutrition on growth and mineral status of alfalfa plants under saline water.Indian J Plant Physiol.Vol No.4(N.S.)279-283
21. Khan M.G., M.Silberbush and S.H.Lips(1997)	Alleviation of salinity caused inhibition in growth and nitrogen assimilation in maize through some growth regulators. Pap.present.in National seminar organized by Academy of Environmental Biology at Muzzaffar Nagar. 1997.
22. Khan M.G. and H.S.Srivastava (1997)	Effect of nitrogen nutrition on growth and mineral composition of alfalfa plants in saline conditions.Pap. Present. In National seminar of ISPP held at New Delhi 1997
	Plant Plasma memebrane H+ -ATPase . Physiol. &Mol.Biol.Plants4(1):3-5

23.Khan, M.G.(1997)	Response of alfalfa to potassium calcium and nitrogen under stress induced by sodium chloride .Biologia Plantarum 40(2):251-259 Changes in growth and nitrogen assimilation in maize plants induced by NaCl and growth regulators Biologia Plantarum 41(1):93-99
24.Garg S.K., Khan, M.G. and H.S.Srivastava (1998)	Nitrate assimilation and nitrate reductase activity in maize plants raised with NaCl salinity. Pap. Present. In National seminar of Plant Physiology and Biochemistry held at PantNagar 1998
25. Khan M.G., M.Silberbush and S.H.Lips(1997)	
26. Khan M.G. and H.S.Srivastava (1998)	Nitrate application improves plant growth and nitrate reductase activity in maize under saline condtions. Indian J Plant Physiol.Vol 5 No.2(N.S.):159-163
27. Khan M.G., M.Silberbush and S.H.Lips(1998)	Zinc deficiency in wheat: a hidden cause of low productivity. Indian Farmer's Digest. Feb 2000, 15-16
28. Khan M.G. and H.S.Srivastava (2000)	Application of cobalt and molybdenum improves biomass and some biochemical constituents in *Pisum sativum* L. grown under saline conditions. Pap. Present. in 23rd all India Conf. organized by Indian Bot. Soc. at Meerut 2000.
29.Khan, M.G., S.C. Shankhdhar and R.C. Pant (2000)	Effect of cobalt and and molybdenum on salinity induced changes in *Lathyrus sativa L*. Pap. Present.in 23rd all India Conf. organized by Indian Bot. Soc. at Meerut 2000.
30.Shalini and Khan , M.G. (2000)	Does polyamine application enhance salinity tolerance in maize plants? Paper present. In National symposium on Role of Biosciences in new Millenium organized by Society of Biosciences at Agra India 2001
31.Singh, V. and Khan, M.G. (2000)	Evaluation of some weeds of Singrauli for saponins, tannins and alkaloids.Vegetos 14: 69-70
32.Khan, M.G.(2001)	Studies on nitrate uptake, nitrate reductase activity and kinetics in alfalfa grown under salinity. Pap. Present.in 25th all India Conf. organized by Indian Bot. Soc. at Bareilly India 2002.
	Cobalt and molybdenum induced changes in Lathyrus sativus L. grown under salinity I-

33.Upadhyay, R., M.G. Khan and S.V.S. Chauhan (2001)	Biomass production and root development.IndianJ Appl. & Pure Biol 23(1) :113-16
34.Khan, M.G. (2002).	Cobalt and molybdenum induced changes in Lathyrus sativus L. grown under NaCl salinity II- Total N pigment compoaition , protein contents and proline accumulation. IndianJ Appl. & Pure Biol 23 (2)
35.Vandna Singh and Khan, M.G.(2008)	Effect of NaCl salinity and calcium on germination and early growth of three grain legumes. Bionotes 6(4): 120
36. Vandna Singh and Khan, M.G.(2008)	Physiological responses of Pea (*Pisum sativum* L.) to cobalt and molybdenum under salinityI-Growth and root development. Indian J. Environmental Sciences 9(1): 27-29 Physiological responses of Pea (*Pisum sativum* L.) to cobalt and molybdenum under salinityII-pigment composition, total N protein content and proline accumulation. Indian J. Environmental Sciences 9(1): 31-32
37.Khan, M.G. (2004)	Brassinosteroids : a newest group of Plant hormone(Communcated to Can J Bot) .
38. Singh V., Shalini Rajpal and M.G. Khan (2005)	Do elevated CO2 levels in air enhance crop productivity ? Bionotes 8(4): 98-98
39. Singh V., Shalini Rajpal and M.G. Khan (2005)	Germination and biomass production in barley (*Hordeum vulgare* L.)as affected by polyamine application Bionotes,10(2):51-52
40.Khan M.G. and S.K.Garg(2006)	Physiological and biochemical responses of Pea (Pisum sativum L.) Pap. Abst, in Proceedings of National symposium organized by DST New Delhi at SVBP University of Tech& A Meerut 2008
41.Khan, M.G. (2006)	Impact of textile waste water on seed germination and some physiological parameters in some leguminous crops. Asian J Plant sciences 10: 269-73
	Sustainable use of textile effluents for food crop production : An alternative to sustain food

42. Gautam. I.K., S.K. Garg and M.G.Khan(2008)	security, Submitted to J African Development Studies. Addis Ababa Ethiopia 2010
43.Sheweta Chaudhary and Khan, M.G(2008)	Impact of Tannery effluent on germination and some physiological parameters in maize (*Zea mays* L.) Paper presented in International Conference on Ecosystem Conservation and Sustainable Development held on 10-12 Feb 2011 at Ambo University Ethiopia
44. M.G.Khan, Daniel G., M. Konjit, T., A. Thomas and Eyasu,S.S . and Awokw G. (2011)	The comparative Impact of Textile, Tannery and Sewage effluents on seed germination, biomass, leaf area, root development and chlorophyll contents in French bean (*Phaseolus vulgarris* L.). *Paper presented in National Symposium on Environmnet and Development , May 24-25 Dilla University Ethiopia*
45. Khan , M.G and Eyasu, S,S (2010)	Impact of textile effluents on some growth, physiological and biochemical characteristics of lablab bean ((*Dolichos lablab L.)Paper presented in 2nd National symposium on Biodiversity and Nat. cons. June 3-6 2011at Arba Minch University Ethiopia.*
46. M. Gufran Khan, Zelalem T. , Fanos W. , Zewede T. and Awoke G.(2011)	Physiological Studies on seed germination, biomass production and pigment composition in Clover (*Trifolium alexandrinum* L.) Lucerne (*Medicago sativa* L.) and lablab bean (*Dolichos lablab* L.) grown with Textile waste water ((Accepted in International J Curr. Res.)
47. M. Gufran Khan and Awoke Guadie(2011).	Polyamine application enhances biomass, nitrate acquisition and assimilation I alfalfa under salinity. Submitted to Indian J Plant physiology (submitted for publication in Asian J of Env. Water Pollution) .
48. M. Gufran Khan, and Awoke Guadie (2011)	Impact of Tannery effluent on germinability and some physiological parameters in maize (*Zea mays* L). In: Proceed. of the Intern. Conf. on Ecosystem Con. And Sustainable Dev (ECOCASD 2011). Natarajan et al., (eds.,), 252-61. Organized by Ambo University, Ethiopia
49. M. Gufran Khan, Eyasu S. S., Awoke G. and Tolera S.(2011)	Effect of salinity and sodicity on germination, biomass, Leaf area, and chlorophyll contents in Maize (*Zea mays* L.). Presented In 3rd national symposium held at Dilla University June 2012

50.Khan M.G. (2011) .	The impact of arba minch and hawassa textile effluent on the physiology and growth of Clover (*Trifolium alexandrinum* L.) Lucerne (*Medicago sativa* L.) and field bean (*Dolichos lablab* L.) In Res. Proc. Arba Minch Univ. vol 1 (1). 10-19
51. Khan Gufran M. (2011)	Air pollution: an outcome of the industrialization , a hidden danger to human health. Reporter Ethiopia. com /Business-opinion 7th july 2012 Biotechnology: A Novel Tool to Sustain Agriculture Productivity in Saline Environment. Life Sciences Feed, 2012; **1**: 17-21
52.Khan M.G. (2012)	The comparative Impact of Textile, Tannery and Sewageeffluents on seed germination, biomass, leaf area, root development and chlorophyll contents in French bean (Phaseolus vulgaris L.) Environ. Sci.: an Indian J Vol 8:issue 8
53. Khan, Gufran.M. Eyasu S. and Tolera S. (2012)	Spatio-temporal variations in the biomass and Photosynthetic production of phytoplankton in a large tropical rift valley lake (L. Chamo, Ethiopia). Communicated (African J of Biotech)
54. M.Gufran Khan (2012)	Impact of salinity and sodicity on Biomass, Total Nitrogen, Nitrate reductase activity, Leaf area, and chlorophyll contents in Maize (*Zea mays* L.) Life sciences leaflets 57(on line & print) : 55-64
55. Gufran Khan M, Sengar R S, Gautam IK, Maurya jn and Garg SK. (2012)	Germination and early growth performances of some fodder crops grown under saline and sodic conditions
56. M.Gufran Khan (2012)	In Proceedings: Samara University 2nd National symposium Ethiopia PP- Woody species diversity, management and contribution of local community in protected forest of Kuneba district, Afar Region Ethiopia. J Environ. Sci. & Tech. 8 (4) : 172-179
57. Eyasu Shumbulo , Demeke Kifle and Gufran K. Mohamed (2013)	Effect of nitrogen, phosphorus and potassium fertilization on growth and yield of onion (*Allium cepa* L.) grown in southwestern Ethiopia (Accepted in Environ. Sc : an Indian journal.)

58. M.Gufran Khan , G.Shimelis, H. Alemu, Kebenu F.(2014)	Phytoremediation of sugar factory effluent polluted soil by some tree species and its impact on germination and growth in maize(Zea mays L.) andLentil (lens esculentumL.) In Proceedings: Samara University 3rd National symposium on sustainable Livelihood development: Pastoral and Agro pastoral context. Ethiopia Vol 3: PP- 117-29
59 . M.Gufran Khan , G.Shimelis, H. Alemu, Kebenu F.(2015)	Systemin: A wound responsive plant peptide hormone. Biotech Today 6(2): 24-27
60. Tefera J., Minyishaw E., Kebenu F. Nurhusen A and Khan M.Gufran (2015)	Prospectus of Biomass Production of three pasture grasses using saline irrigation in semi arid condtions of Afar Ethiopia North East Africa Life Sciences Leaf lets Vol 82: 30-38
61. Muluneh Bekele, Ali Mohammed Amsalu Nebiyu and M. Gufran Khan (2015)	Phytoremediation of tannery effluents byTeff(*Ergarostis teff*) and wheat*(Triticum aestivum*) straw and evaluation of its toxicity by Sesame(*Sesamum indicum* L). Paper published in In Proceedings: Samara University 4th National symposium on sustainable Livelihood development: Pastoral and Agro pastoral context. Ethiopia Vol 3: PP-117-29
62.. M.Gufran Khan, Abebe Chaka, Alemu H. Brhanu abayu and Kebenu,F.(2016).	A critical appraisal of *Amarantus* and *Chenopodium* weeds for their harmful and beneficial aspects in context to food security in pastoral area DIJBRAR1;1
63. Maurya, S.K., Khan, M.G. and Garg, S.K.(2016)	
64. M.Gufran Khan, Abebe Chaka, Alemu H. and Kebenu,F.(2017)	
65. . M.Gufran Khan, Abebe Chaka, M. Shahnawaz and Endris S,.(2017)	

66. M.Gufran Khan, Abebe Chaka, M. Awate and Endris S,.(2018)	

Contribution of Prof. Mohammed Gufran Khan (Ph.D) to Samara University Afar Ethiopia

A. Research and Community Projects

1. Potential and future prospects of biomass production in salt affected soils using some forage crops. (2014)
2. Impact of sugar factory effluent on nearby soils and crop production and its phytoremediation by some tree species viz.,*Azadirachta indica, Moringa olefera* and *Accaia nilotica)* (2015)
3. Adaptation trial of some low land maize varieties under irrigation at Adar and Adlela woreda Afar Region Funded by Pastoral community development Board and SU (2016)
4. Increasing production and productivity of maize and sweet potato through intercropping among pastoral and semi pastoral farmers of Afar regional state.(2016)
5. Phytoremediation of tannery effluents by Teff (*Ergarostis teff*) andwheat*(Triticum aestivum*) straw and evaluation of its toxicity bySesame(*Sesamum indicum* L).(2017)
6. Maize multiplication and seed production in Asaiyta and Afambo woreda of Afar. (2018)
7. Allelopathic effect of *Amaranthus* and *Chenopodium* weds on some vegetable crops as grown in afar regionl state.(2018)
8. Screening of seed genotypes of barley for adaptation in Assaita afar ,

B. Publications with Samara University staff

1.. M.Gufran Khan , G.Shimelis, H. Alemu, Kebenu F.(2014). Impact of salinity and sodicity on Biomass, Total Nitrogen, Nitrate reductase activity, Leaf area, and chlorophyll contents in Maize (*Zea mays* L.)Life sciences leaflets 57(on line & print) : 55-64

2.. M.Gufran Khan , G.Shimelis, H. Alemu, Kebenu F.(2015). Germination and early growth performances of some fodder crops grown under saline and sodic conditionsIn Proceedings: Samara University 2nd National symposium Ethiopia PP

3.. Tefera J., Minyishaw E., Kebenu F. Nurhusen A and Khan M.Gufran (2015). Woody species diversity, management and contribution of local community in protected forest of Kuneba district, Afar Region Ethiopia. J Environ. Sci. & Tech. 8 (4) : 172-179

4.. Muluneh Bekele, Ali Mohammed Amsalu Nebiyu and M. Gufran Khan (2015) Effect of nitrogen, phosphorus and potassium fertilization on growth and yield of onion (*Allium cepa* L.) grown in southwestern Ethiopia (Accepted in Environ. Sc : an Indian journal.)

5... M.Gufran Khan, Abebe Chaka, Alemu H. Brhanu abayu and Kebenu,F.(2016). Phytoremediation of

sugar factory effluent polluted soil by some tree species and its impact on germination and growth in maize(Zea mays L.) andLentil (lens esculentumL.)
In Proceedings: Samara University 3rd National symposium on sustainable Livelihood development: Pastoral and Agro pastoral context. Ethiopia Vol 3: PP- 117-

6.. M.Gufran Khan, Abebe Chaka, Alemu H. and Kebenu,F.(2017) Prospectus of Biomass Production of three pasture grasses using saline irrigation in semi arid condtions of Afar Ethiopia North East Africa Life Sciences Leaf lets Vol 82: 30-38

7. .M.Gufran Khan, Abebe Chaka, M.Shahnawaz and Endris S,.(2017) Phytoremediation of tannery effluents by Teff (*Ergarostis teff*) and wheat*(Triticum aestivum*) straw and evaluation of its toxicity by Sesame(*Sesamum indicum* L).
Paper published in In Proceedings: Samara University 4th National symposium on sustainable Livelihood development: Pastoral and Agro pastoral context. Ethiopia Vol 3: PP- 117-29.

8. M.Gufran Khan, Abebe Chaka, M. Awate and Endris S,.(2019) A critical appraisal of *Amarantus* and *Chenopodium* weeds for their harmful and beneficial aspects in context to food security in pastoral area DIJBAR 1; (1)