**CURRICULUM VITAE**

**Of**

**Dr. MUHAMMAD IDREES KHAN**

| | | | |
|---|---|---|---|
| **1** | **PERSONAL** | |  |
| | Father's name | Gull Muhammad Peer | |
| | Date of birth | 10-03-1969 | |
| | Place of birth | Malakand Agency K.P. | |
| | Marital status | Married | |
| | N. I. Card No. | 15401-0709594-9 | |
| | Passport No. | NL4115942 | |
| | N. Tex. No. | 04-32-2428889-6 | |
| | Telephone #. | 03007339113 & 03336050762 | |
| | Citizenship | Pakistani | |
| | Postal address | Head,<br>Plant Breeding & Genetics Section/Senior Scientific Officer Central Cotton Research Institute (CCRI) Old Shujaababd Road P.O. Box Number 572 Multan, PAKISTAN<br>Email Add : peer60000@gmail.com & peer60000@yahoo.com<br>Website :www.ccri.org.pk | |
| | Permanent address | Village Qualdara (Dargai Phattak), P.O. Dargai Malakand Agency, NWFP; PAKISTAN.<br>Phone No. +923009056536 | |
| | Language Proficiency | Pashto, English, Urdu and Punjabi | |
| **11** | **EDUCATION** | | |

| | **Degree** | **Year** | **Marks/CGPA** | **Division** | |
|---|---|---|---|---|---|
| | | | **Obtained/Total** | **%** | Division |
| **PhD. Degree** | | 2014 | 3.67/4.00 | 88.8 | 1st |
| **M.Sc. (Hons) Agri.**<br>**PBG specialisation** | | 1995 | 3.6/4.00 | 88.75 | 1st |
| **B.Sc. (Hons). Agri.**<br>**PBG specialisation** | | 1991 | 416/625 | 65.6 | 1st |

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| **III** | **Topic of M. Sc. (Hons) Thesis Research** | | |
| | Evaluation of indigenously evolved Sugarcane Crosses for some qualitative and quantitative parameters. | | |
| **III** | **Topic of Ph. D Thesis Research** | | |
| | **Contribution to the study of combining ability and genetic diversity among cotton (*Gossypium .hirsutum* L) genotypes** | | |
| **IV** | **EXPERIENCE & AREA OF SPECILIZATION** | | |
| | **Designation** | **From** | **To** |
| | Farm Manager | August 01st , 1994 | August 18th , 1996 |
| | Research Officer | August 19th 1996 | Dec.31, 2000 |
| | Scientific Officer/ In charge World Cotton Gene pool | 01.01.2001 | 20-09-2012 |
| | Senior Scientific Officer/ In charge World Cotton Gene pool | 21-09-2012 | 05-04-2016 |
| | Head, Plant Breeding & Genetics Section/Senior Scientific Officer | 06-04-2016 | To date |

- **Expert in Maize, Sugarcane and Cotton Breeding,**
- **Maintaining World Cotton Gene Pool, of Cotton Germplasm containing about 6000 cotton genotypes from all over the World and have**
- **Having expertise in DNA finger printing Techniques in Cotton crop.**
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## Project Supervised

| **Name** | Collaborators | Duration | Budget (PKR) |
|---|---|---|---|
| Pak-US-ICARDA Cotton Project, CCRI, Multan Component Phase-I | 1. USDA, United States of America. 2. ICARDA | September, 20111 December, 2017 | 52.2 Millions |
| Pak-US-ICARDA Cotton Project, CCRI, Multan Component Phase-II | 1. USDA, United States of America. 2. ICARDA | January-2018 December-2018 | 1.00 Millions PKR |

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|---|---|---|---|---|
| | Pak-US-ICARDA Cotton Project, CCRI, Multan Component Phase-III **(Continue)** | 1. USDA, United States of America. 2. ICARDA | January-2019 December-2019 | 1.00 Millions PKR |

| V | SEMINARS/TRAINING/WORKSHOP ATTENDED | | | |
|---|---|---|---|---|
| | **Name** | **Place** | **From** | **To** |
| 01 | First Fruit Tree Nursery Workshop<br><br>Malakand Fruit & Vegetable Development Project Agri. Research Station Mingora Swat | Mingora Swat N.W.F.P. | Nov. -24th-<br><br>1996 | Nov.-26th - 1996 |
| 02 | Travelling Seminar on Cotton | Cotton Institutes/Stations & Farmers fields in Sindh & Punjab Provinces | Sep. - 9th-2005 | Sep. - 29th-2005 |
| 03 | Second National Workshop Establishment of a National Information Sharing Mechanism for Monitoring the Implementation in Pakistan of Global Plan of Action for the Conservation and Sustainble Utilization of Plant Genetics Resources for Food & Agriculture and Preparation of a PGRFA Country Report | Plant Genetics Resources Program, IABGR, National Agricultural Centre, Park Road,<br><br>Islamabad | Dec.-18th - 2006 | Dec. 19th -2006 |
| 04 | Third National Workshop Establishment of a National Information Sharing Mechanism for Monitoring the Implementation in Pakistan of Global Plan of Action for the Conservation and Sustainable Utilization of Plant Genetics Resources for Food & Agriculture and Preparation of a PGRFA Country Report | Plant Genetics Resources Program, IABGR, National Agricultural Centre, Park Road, Islamabad | April 10th 2007 | |
| 05 | National Institute for Genetic Engineering and Biotechnology (NIBGE) Jhang Road Faisalabad, Pakistan | Practical Training on Plant Biotechnology | 16th January 2008 | 16th April 2008 |
| 06 | Agricultural Biotechnology Research Institute, Ayub Agri. Res. Institute (AARI) Jhang Road Faisalabad | Use of DNA fingerprinting techniques for the improvement of Agricultural crops | 17th January, 2008 | 19th January, 2008 |
| 07 | National Institute for Genetic Engineering and Biotechnology (NIBGE) Jhang Road Faisalabad, Pakistan | Breeding of Bt gene in local elite varieties of Cotton | 28th April, 2008 | 2nd May, 2008 |

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| 08 | Travelling Seminar on Cotton | Cotton Institutes/Stations & Farmers fields in Sindh & Punjab Provinces | October 6th 2009 | October 15th 2009 |
| 09 | National workshop on "Strengthening of plant Genetics Resources Information for Food and Agriculture including the National Information Sharing Mechanism (NISM) for Global plan of action". | Plant Genetics Resources Program, IABGR, National Agricultural Research Centre,(NARC) Park Road, Islamabad | December 16th 2009 | |
| 10 | Training Course for key stocks holders on National Information sharing Mechanism-Software and its application | Plant Genetics Resources Program, IABGR, National Agricultural Research Centre,(NARC) Park Road, Islamabad | April 13th-14th 2010 | |
| 11 | One day training course on conservation of Genetic Biodiversity | Plant Genetics Resources Program, IABGR, National Agricultural Research Centre, (NARC) Park Road, Islamabad | December 21st 2010 | |
| 12 | Belt Wide Cotton Conference | Orlando-Florida USA | January 03-06. 2012 | |
| 13 | Annual work on Cotton workshop of ICARDA Cotton Project | NARC Islamabad | December 08-12. 2014 | |
| 14 | International Workshop on seed | Uni. Agri. Faisalabad, Pakistan | | |
| 15 | Annual work on Cotton workshop of ICARDA Cotton Project | NARC Islamabad | August 18-22. 2015 | |
| 16 | Borlaug Fellowship Program | College of Agri.& Environ. Sci. Plant Molecular Lab. NESPAL Building, Tifton Georgia, USA. | 09-13-2013 to 12-07-2013 | |
| 17 | 75th Plenary Meeting of ICACA Titled "Emerging dynamics in Cotton Enhancing Sustainability in Cotton Value Chain" | Serena hotel Islamabad, Pakistan | October 30, 2016 to November 04, 2016 | |

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|---|---|---|---|
| 08 | Travelling Seminar on Cotton | Cotton Institutes/Stations & Farmers fields in Sindh & Punjab Provinces | September 25th 2016 to October 04th 2016 |

## SCHOLARLY PUBLICATIONS OF DR. MUHAMMAD IDREES KAHN

| | | |
|---|---|---|
| **VI** | **RESEARCH PUBLICATIONS** | |
| | Research Papers (International and National) | 36 |
| | **GENERAL RES. ARTICLES** | **04** |
| | **Total Research paper published** | **40** |

# SCHOLARLY PUBLICATIONS

## RESEARCH PAPERS

1. Muhammad Zahir Ahsan, **M. I. Khan**, Hidayatullah Bhutto, Rehana Anjum, Muhammad Saffar Majidano, Saira Bano, Abdul Wahab Soomro, Faiz Hussain Panhwar, Abdul Razzaque Channac & Tassawar Hussain Malik. 2017. Registration of 'CRIS-129', an Early-Maturing, Heat-Tolerant, and High-Yielding Cotton Cultivar. Journal of Plant Registrations, USA. Vol. 11 No. 3, p. 222-227

2. Kalimullah, **M. I. Khan**, Z. Mahmood, T. Iqbal, S. Muhammad, H. A. Haq, A. Ahmad, S. Hussain. 2017. Response of Yield and Related Attributes of Upland Cotton to Weather Variables. American Journal of Plant Sciences, V.08. Pp: 1711-1720. http://www.scirp.org/journal/ajps.

3. **Khan. M. I** , Khadim Hussain, Muhammad Akbar & Hafiz Abdul Haq. 2017. Evolution of Cotton (Gossypium hirsutum L.) Variety Bt.CIM-598 Equipped with Wider Adaptability Traits, CLCuV Tolerant and Desirable Fibre Traits. Jour.Pl. Agric. & Basic Sci. Vol. 28.PP:2518-4210. http://www.jabsjournal.com.

4. **Khan. M. I**, H. A. Haq, Kalim Ullah, Muhammad Arshad and A. Majid. 2017. Genetic diversity and correlation studies for Cotton Leaf Curl Disease (CLCuD), fiber & yield related attributes in exotic lines of Gossypium arboreum L. American J. Pl. Sci. Vol., 8. 615-624 http://www.scirp.org/journal/ajps ISSN

5. **Khan. M. I.,** M. A. Dasti, Z. Mahmood, & M. S. Iqbal. 2014. Effects of fiber traits on seed cotton yield of cotton (G. hirsutum L.). J. Agric. Res., Vol. (2).159-166.

6. Hussain K., M. Ali, W. Nazeer, M. A. M Khan, M. Afzal, **M. I. Khan**. 2012. Quantification of cry1ac protein at different stages of plant growth in cotton (G. hirsutum L.) Albanian j. agric. sci. Nr. 4/Vol.11 2020-2218.

7. Khan, J. Bakhat, S. A Khan, M. Saeed, **M. I. Khan**, & H Khan 2011.d Groundnut genotypes yield potential under Northern Khyber Pukhtoonkhwa- The Swat valley. Pak. J. Botany. Accepted for Publication. Registered No. 1335-CPB. Dated 29-11-2011.

8. Khan, J. Bakhat, **M. I. Khan**, H Khan, M. Saeed & M Liaqat.2011. High yielding Peanut genotypes for Dir Lower Northern Pakhtunkhwa, Pakistan. Pak. J. Botany. Accepted for Publication. Registered No. 1387-CPB.

9. **M. I. Khan**, M. K. S. Sarwar, A. Khan, S. A. Khan & M. T Jan.2011. Genotypic response off cotton (Gossypium hirsutum L) varieties in respect of seed cotton yield and its components. Vol. 55 Pp-67-81.

10. **M. I. Khan**, M. Afzal, A. Khan, H. M. Saeed, & T. H. Malik. 2011. Genotypic exploitation of Commercial cotton (G. hirsutum L) cultivar under the agro-climatic condition of Multan, Pakistan. The Pak Cotton. Vol: 54 No.14. Pp 57-63.

11. Arshad, M., **M. I. Khan**, Ch. R. Ali, M. Afzal, and M. Rahman. 2009. Registration of 'CIM-496' Cotton Cultivar. Journal of Plant Registrations. Crop Science Society of America, 677 S. Segoe Rd., Madison, WI 53711 USA., Vol. 3, (3): 231-235.

12. Ch. R. Ali M. Arshad, **M. I. Khan**, M. Afzal and N. Illahi. 2007. Indigenous evolution of determent and high yielding upland cotton variety CIMN-534. The Pak. Cottons, 51(1&2):61-75.

13. Arshad, M., **M. I. Khan**, Ch. Rehmat Ali and M. Afzal. 2007. Development of Semi determinant, high yielding and heat tolerant Cotton variety CIM-496. The Pak. Cottons, 51(1&2):25-39.

14. Arshad, M., M. Afzal, **M. I. Khan** and. Ch. Rehmat Ali. 2005. Evolution of high yielding, heat tolerant and early maturing upland cotton variety CIM-506. The Pak. Cottons, 49(1&2):49-62

15. Arshad, M., Ch. Rehmat Ali, **M. I. Khan** and M. Afzal. 2005. Indigenous evolution of long staple and high yield upland cotton variety CIM-707. The Pak. Cottons, 49(1&2):35-44.

16. Arshad, M, M Hanif, Ch. Rehmat Ali, M. Afzal **M. I. Khan** and N. Illahi, 2003. Evolution of a high yielding with quality fibre upland cotton variety CIM-499. The Pak. Cottons, 47 (3&4):17-23.

17. Arshad M., M. Afzal, **M. I. Khan** and M. Rashid. 2003. Performances of newly developed cotton strains for economic and fibre traits in National Co-ordinated Trails (NCVT). Pak. J. Sci. & Ind. Res.46 (5) 373-375.

18. Rehmat Ali, M. Arshad, **M. I. Khan**, and M. Afzal. 2003. Study of earliness in commercial cotton (G. hirsutum L) genotypes. Journal of Research (Science) Bahauddin Zakariya University Multan. Vol: 14 (2): 153-157.

19. Jan, M. T., **M. I. Khan** M. Naeem and R. Mehmood. 2003. Leafhopper management of autumn potato crop in Peshawar (PAKISTAN). Journal of Research Asian (Sciences). Bahauddin Zakariya University Multan. Vol: 14 (1): 35-42.

20. Mehmood, R., M. T. Jan and, **M. I. Khan**. 2002. Impact of feeding mulberry leaves with foliar spray nitrogen in the larval development and silk yield of silkworms. Indus Journal of agricultural Sciences, Vol.: 1 (4): 349-353.

21. **Khan, M. I**., M. Afzal, N. Illahi and M. T. Jan. 2002. Genotype x Environment Interaction Studies in Seven Pakistani Upland Cotton Genotypes. Indus Journal of agricultural Sciences, Vol.: 1 (4): 325-329.

22. Jan, M. T., **M. I. Khan**, R. Mahmood and M. Naeem 2002. Management of Aphids (Myzus persicae) on Autumn Sown Potato Crop. Asian J. of Biological Sci. Faisalabad 1(4): 397-4000.

23. Jan, M. T., M. Naeem **M. I. Khan** and R. Mehmood.2002. Management of insect pests of autumn potato crop in diverse culture in NWFP (Peshawar). Asian Journal of Plant Sciences. Vol: 1 (2): 203-204.

24. Mehmood, R., M.T. Jan and **M. I. Khan** 2002. Effect of nitrogen (Farm yard manure + Urea) treated mulberry trees on the larval development and cocoon weight of silkworm, (Bombyx mori L.) Asian Journal of Plant Sciences. Vol: 1 (2): 93-94.

25. Afzal, M., M. Arshad, **M. I. Khan** and N. Illahi. 2002. Yield response of indigenously evolved upland cotton genotypes for various traits in National Co-ordinated Varietal trails (NCVT) under Multan Conditions. Asian Journal of Plant Sciences. Vol: 1 (2): 119-120.

26. Afzal M., M. Arshad, **M. I. Khan**, Ch. Rehmat Ali and, M. Hanif 2001.Genotypes x Year Interaction for Economic and fibre traits in five newly developed cotton (G. hirsutum L) genotypes. Journal of Agricultural Research, Vol. 40 (2) Pp: 81-89.

27. Arshad, M., N. Illahi, M. Rashid, Rehmat Ali, T. Mehmood, **M. I. Khan** and Z. Qamar. 2001. Response of Exotic and Local Cotton Germplasm to Cotton Leaf Curl Virus. Pakistan Journal of Biological Sciences. Vol: 4 (Suppl. Issue No. 6): 572-573.

28. Hanif M., M Arshad. M. Afzal and **M. I. Khan**. 2001. Yield response and yield parameters of newly developed cotton varieties of G. hirsutum L. Baluchistan J. of Agric. Sciences. 2 (1): 9-13.

29. Afzal, M., M. Arshad, **M. I. Khan**, T. Jan, Noor Illahi and S. Haider. 2001. Genotypic environmental interaction for yield and its components of newly evolved cotton genotypes under Multan conditions. Pak. J. Biological Sciences. 4 (Suppl. 5): 440-441.

30. **Khan, M. I**., Imran Muhammad, and Ayub Khan. 2001. Evaluation of indigenously evolved Sugarcane (Saccharium officinarum L.) crosses for some qualitative and quantitative parameters. Pak. Sugar Journal 16(4): 12-17.

31. Khan, A., N. J. Malik, **M. I. Khan**, and S. Raiz. 2001. Growth performance, heritability and interrelationship in some quantitative traits in Sunflower. Online Journal of Biological Sciences Vol; 1 (10) 895-897).

32. Khan A., M. Rahim, Amjad Khan and **M. I. Khan**. 2001. Yield response of groundnut genotypes under sub-mountainous condition of Malakand Division, NWFP. Pakistan. P. J. Biol. Sci. 4(4): 404-406.

33. Khan, A., M. Rahim, Amjad Khan, **M. I. Khan** and Shahid Riaz. 2000. Correlation and path analysis studies in Brasica nappies L. Pak. J. Agric. Res. 16(2): 127-130.

34. Khan, A., M. Rahim, **M. I. Khan** and M. Tahir, 2000. Genetic variability and criterion for the selection of Peanut genotypes. Pak. J. Agric. Res. 16(1): 9-12.

35. Khan, A., M. Rahim, **M. I. Khan** and Amjad Khan. 1998. Yield Performance of Brasica napus L. Vvarieties at Swat Valley Bottom. Sarhad J. Agric. 14 (3): 181-185.

36. Khan, A., M. Rahim, **M. I. Khan** and Amjad Khan. 1998. Seed filling duration and yield in Lentil. Lens Newsletter. 25 (1 & 2).

**GENERAL ARTICLES**

1 **Khan, M. I.**, F. Ahmad and M. Afzal 2001. Effective Micro-organisms (EM) Technology and its roles in Cotton Production. The Pak. Cotton Grower Vol.: 5, (2): 13-14.

2 Ayub Khan and **M. I. Khan** Recommendation for quality seed production of Groundnut (Arachis hypogeae L) in NWFP. Zarat Sarhad. Col.19 No. 2:22-24

3 Ghulam Hussain & **M. I. Khan** A book titled “Cotton Leaf Curl Virus and better management of cotton (Urdu)” published by Pak US-ICARDA Cotton Project at CCRI., Multan during 2012.

4. **M. I. Khan & Tariq Mahmood. A book titled "Cotton Germplasm Maintenance with Plant & Fibre Characteristics".(Under Press)**

**BREEDER & CO-BREEDER IN VARIETIES RELEASED (COTTON)**

**1.** ***Bt.*CIM-632:-** High yielding and early maturing, non-conventional cotton variety having tolerance against heat and drought equipped with desirable fiber traits. Approved for general cultivation in Punjab during 2018.

**Due to its earliness it is well suited to Cotton-Wheat rotation.**

**2.** ***Bt.*** **CIM-610:-** High yielding and early maturing, conventional cotton variety having tolerance against heat and drought equipped with desirable fiber traits. Approved for general cultivation in Punjab during 2018.

**Due to its earliness it is well suited to Cotton-Wheat rotation.**

**3. CIM-620:-** This is the single cotton variety approved during 2016 in Punjab which is high yielding and early maturing, with desirable fibre characteristic's. **Due to its earliness it is well suited to Cotton-Wheat rotation.**

**4.** ***Bt.*** **CIM-602:-** Genetically modified, High yielding, early maturing, desirable fibre characteristic's variety having wider adoptable (also approved for general cultivation Sindh)

**5.** ***Bt.*** **CIM-600:-** Genetically modified, most early. heat tolerant, high yielding, with desirable fibre characteristic's variety having wider adoptable (approved for general cultivation Punjab & Sindh).

**6.** ***Bt.*** **CIM-598:-** Genetically modified, High yielding, early maturing, desirable fibre characteristic's variety having wider adoptable (also approved for general cultivation Sindh).

**7. CIM-573:-** High yielding, CLCuV tolerant, early maturing, long staple variety having wider adoptability thorough the country.

**8. CIM-496:-** High yielding, early maturing, desirable fibre characteristic's variety having wider adoptability thorough the country. (Variety registered in Journal of plant registration of Crop Science society of America, USA, 2009)

**BREEDER & CO-BREEDER IN VARIETIES RELEASED (SUGARCANE)**

**1. ABID-96**

Early maturing thin cane with high TSS value suitable for the Peshawar valley, K.P

**2. JABBAN-93**

Early maturing thin cane with high TSS value along with cold tolerance especially suitable for the Peshawar valley Sugarcane Zone in K.P