

PROF. DR. IDREES AHMAD NASIR

Career Highlights

Management

- ★ Managed 9 Research Projects as Project Director/Project Manager/Focal Person of worth 172.74 million PKR funded by international and national sources including PARB (2004-2016)
- ★ Representing Pakistan in CPEC on Cotton Research
- ★ Administrative Experience at Centre of Excellence in Molecular Biology University of the Punjab (1991-2004)

Research output

- ★ Two Bt Cotton Varieties (CEMB-33 & CA-12)
- ★ First local transgenic sugarcane containing four transgenes
- ★ Insect and glyphosate resistant hybrid Corn
- ★ Fusarium resistant Gladiolus
 - ★ Virus, fungus, frost & sweetening resistant Potato
- ★ 3 Patents, 6 PhDs, 32 MPhil students, reported 38 genes & more than 100 research publications including books

Pioneered (Pak)

- ★ Plant tissue culturing and direct plant transformation technology
- ★ siRNA & miRNA based virus resistance
- ★ Modern Journal based scholarly publishing

EXECUTIVE SUMMARY

Visionary leader bringing over 25 years of experience in establishing operational optimization across diverse agricultural research field in both national and international levels. Recognized for talents in strategy development and providing research/science vision. Converts strategic plans into tactical reality through establishing sufficient human resource. Devises and implements new programs and initiates successful processes to produce new product with maximum impact to agriculture in Pakistan.

Expert in transforming strategic plans into tactical initiatives for national and regional requirements.

Motivator and coach combining research acumen with analytical depth to align operational efficiencies with national agricultures challenges and objectives.

EDUCATION

Ph. D. Horticultural Molecular biology from University of the Punjab, Lahore (2004)

M. Sc. (Hons) Horticulture from University of Agriculture Faisalabad (1986)

B. Sc. (Hons) Horticulture from University of Agriculture Faisalabad (1984)

F. Sc. Pre-Agriculture from University of Agriculture Faisalabad (1979)

M.SC. THESIS

PROPAGATION OF DATE PALM (*PHOENIX DACTYLIFERA* L.) BY IN VITRO TECHNOLOGY.

Ph.D. THESIS

REGENERATION RESPONSE OF CELL SUSPENSION OF GLADIOLUS.

Personal Information

Name: - PROF. DR. IDREES AHMAD NASIR

FATHER'S NAME:- Khushal Muhammad
DESIGNATION: - Professor
DATE OF BIRTH:- September 25, 1961
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MARITAL STATUS: - Married (Three Children)

Achievements

1. For the very first time in Pakistan, I have developed insect resistant genetically modified advanced cotton varieties containing CEMB-double Bt genes. My two cotton varieties got first position in different set of trial across Pakistan conducted by the Pakistan Central Cotton Committee (PCCC). Afterward, my two cotton varieties namely **CEMB-33** and **CA-12** have been approved by PSC and Licensed of Commercialization by NBC for general cultivation in the Punjab. It is further pointed out that my third double gene variety CEMB-66 has also been approved and now waiting for the commercialization License from NBC.
2. New cotton line named as **CEMB-Klean Cotton** has been approved by the NBC for field testing. Technology testing and NCBT trials of CEMB-Klean cotton are being done by the CCRI, Multan and CCRI Sakrand. It has been estimated by the cotton experts that this new triple gene cotton will save about 150 billion Rupees in the cost of cotton production in Pakistan. The CEMB transgenic cotton technology has been Patented Vide Patent No: 142243. CEMB-Klean Cotton has won three awards in the invention to Innovation Summit i.e. First from University of Taxela and University of Peshawar and Second from the Punjab University.
3. I have also developed genetically modified insect and glyphosate resistant hybrid corn. Non transgenic version of CEMB-hybrid corn was evaluated by Maize and Millet Research Station, Sahiwal, Pakistan and rated among the top five hybrids out of 1050 hybrids tested.
4. I have also developed first local transgenic sugarcane containing four genes. Transgenic sugarcane with high sucrose is in Progress.
5. Furthermore, I have developed Fusarium resistance in the highly susceptible Gladiolus cultivars.

6. Developed virus resistance in Potato and sugarcane using siRNA gene silencing technique.
7. Established protocols for the mass production of pre-basic virus free seed potato. Our virus free Potato seed has been marketed by a private seed company, M/s AGB Seeds Pvt Limited for the last 10 years.
8. Developed synthetic seed production protocol of carrot, cucumber and potato.
9. Insect pest bioassays and field evaluation of our own formulated Bt and Mycorrhiza based Biopesticides were completed on Cotton, Tomato, Cauliflower, Okra, Rice etc.
10. Thirty two M. Phil and six Ph.D. students have been awarded degrees under my supervision. Published over 100 research articles in scientific journal. Also published, one book & two book chapters discovered 38 novel genes, won nine research projects and claimed three patents.
11. **I have also started an online peer-reviewed multi-discipline scientific journal “Advancements in Life Sciences (ALS)” web. www.als-journal.com as chief Editor. The ALS has been recognized by the HEC and placed in the “Y” category w.e.f. December 31, 2015.**

Honors and Awards

1. Research Productivity Award 2011. Awarded by Pakistan Council for Science and Technology, Ministry of science and Technology, Islamabad.
2. Certificate of accomplishment for the excellent Preparation and Maintenance of Centres Interior Beautification and Landscape programme Awarded by the honorable Vice Chancellor University of the Punjab.
3. Received four Letters of appreciation for the excellent arrangement regarding beautification of Centre's premises during symposium/Bioforum, 1995, 1997, 2006 and 2008.
4. Performance Evaluation Award-2013 granted by the Vice Chancellor, University of the Punjab, Lahore, Pakistan.
5. Performance Evaluation Award-2014 granted by the Vice Chancellor, University of the Punjab, Lahore, Pakistan
6. Research Productivity Award 2014. Awarded by Pakistan Council for Science and Technology, Ministry of science and Technology, Islamabad.
7. My products won 1st prize in the 4th Invention to Innovation Summit, University of the Punjab Lahore.
8. My products won 1st prize in the 4th Invention to Innovation Summit, University of the Haripure.
9. Performance Evaluation Award-2015 granted by the Vice Chancellor, University of the Punjab, Lahore, Pakistan.

GMO Cotton Varieties Approved by PSC

1. CEMB-33 (Transgenic double Bt genes Cotton line)
2. CA-12 (Transgenic double Bt genes Cotton line)

GMO Cotton Variety Recommended by ESC

1. CEMB-66 (Transgenic double Bt genes Cotton line)

Worked as Project Director/Project Manager/Focal Person

1. Selection of Somaclonal variants for desirable flowers. **Funded by Ministry of Science & Technology at a total cost of Rs 01.12 Millions.(Completed)**
2. Disease Resistance through siRNA gene silencing in Sugarcane. **Funded by Ministry of Science & Technology at a total cost of Rs 36.45 Millions. (Completed).**
3. Development & commercialization of indigenous Bt and herbicide tolerant Maize hybrids. Funded by **The Punjab Agriculture Research Board, Lahore, Pakistan** at a cost of Rs. 22.829 million **(In progress).**
4. Genetic Improvement of Sugarcane for Herbicide and Borer Resistance. Funded by **The Punjab Agriculture Research Board, Lahore, Pakistan** at a cost of Rs. 22.148 Millions **(In progress).**
5. Development and Commercialization of Cotton Leaf Curl Virus resistant/tolerant indigenous transgenic Bt and glyphosate resistant Cotton hybrids. **Funded by The Punjab Agriculture Research Board, Lahore, Pakistan** at a total cost of Rs. 35.766 Millions **(In progress).**
6. Transformation of gene Constructs and genetically engineered germplasm resources/ commercial genotypes resistant to develop cotton leaf curl disease and/or its insect vector **(Focal Person). Funded by ICARDA at USD 0.40 Million (in progress).**
7. Laboratory Bioassays of Maize Stem Borer for determination of efficacy of Bt Proteins. **Funded by Pioneer Dupont, USA,** at USD 70,490 (In progress).
8. Genetic improvement of potato cultivars for frost tolerance. **Approved by TWG of The Punjab Agriculture Research Board, Lahore, Pakistan** at a total cost of 35.450 Million.
9. Genetic improvement of potato against cold induced sweetening through integration of anti-sweetening gene (s). Approved by HEC at a cost of Rs. 08.208 Millions.

Patents

1. **Novel transgenic approach to decrease cost of cotton production in Pakistan (IPO # 765/2010).**
2. **Development of Pakistani Cotton Containing Virus Resistant Transgenes (IPO # 939/2011).**
3. **Development of Pakistani Sugarcane Containing siRNA against SCMV (IPO # 26/2012).**

Thesis Supervised

Ph.D. STUDENTS SUPERVISED

- Six Ph.D. students have been awarded Ph.D degrees by the University of the Punjab, Lahore, Pakistan. Four students are writing their Ph.D theses and five Ph.D. students are doing their research work under my direct supervision.

M.PHIL STUDENTS SUPERVISED

- Thirty two M.Phil students have completed their thesis research work under my supervision.

Workshops/Conferences/Symposiums/Certificates

1. Contributed as resource person in the Training course on “Using Molecular Techniques for Cotton Breeding” sponsored by SESRIC (OIC-CTP) held on October 04-05, 2016, University of Khartoum, Sudan.
2. Successfully completed training course on “Publishing Life Science Research Workshop” hosted by the American society for Microbiology at Pullman hotel Bangkok, May 02-04, 2016.
3. Contributed as resource person in the Training course on “Mitigating the devastating effect of Lepidopteran insect through Molecular and Conventional Approaches” arranged by SESRIC (OIC-CTP) held on March 29-31, 2016, Ankara, Turkey.
4. Attended “PLANT AND ANIMAL GENOME CONFERENCE-2015” held at San Diago, CA, USA, January 10-14, 2015.
5. Biotechnology Cluster. FC College University, Lahore Pakistan 2014.

6. "The Development *and Testing of Transgenic for Cotton Leaf Curl Virus (CLCuV) Disease Resistance*" by Pak-US Cotton Productivity Enhancement Program of ICARDA, March 18-19, 2014.
7. Cotton Breeders Tour-2013, September 15 - 18, 2013, Lubbock, Texas USA.
8. Advanced training on detection of GMOs, July 15-31, 2011, Nanjing Agriculture University, Nanjing, China.
9. 7th International Conference "trends in biochemistry and molecular biology", April 2-5, 2003.
10. 1st National Conference of Biology, March 28-30, 2002
11. 7th National Conference of Plant Scientists, November 14-16, 2000
12. "Processing Disciplinary Cases under Removal from Service (Special Powers) Ordinance – 2000". 3-8 March 2003. Secretariat Training Institute Establishment Division, Islamabad
13. "Certificate of Accomplishment for Excellent Maintenance of Centre's Building and Lawns" by Vice Chancellor University of the Punjab.
14. Certificate of Service for serving as cadet in National Guards from October 1976 to March 1978.

Invited Evaluations

1. As Third Party Evaluator for PARB Project 235 by Punjab Agriculture Research Board. October 2012.
2. Evaluation of horticulture at COMSAT Institute of Information Technology, Lahore. March 2009.

Membership of Various Administrative bodies

1. Member of the American Society for Microbiology, USA.
2. Member of the Horticulture Core-committee, Pakistan Horticultural Research Board. Lahore Pakistan.
3. Member of the Sub-committee of the Technical Advisory Committee (NBC), Islamabad, Pakistan.
4. Chairman, Auction Committee, CEMB, University of the Punjab, Lahore, Pakistan.
5. Chairman Landscape Committee, CEMB, University of the Punjab, Lahore, Pakistan.
6. Member, Departmental Promotion Committee, CEMB, University of the Punjab, Lahore, Pakistan.
7. Member, Departmental Technical Review Panel, CEMB, University of the Punjab, Lahore, Pakistan.
8. Member, Departmental Selection Committee, CEMB, University of the Punjab, Lahore, Pakistan

9. Member, Admission Committee for M.Phil/Ph.D CEMB, University of the Punjab, Lahore, Pakistan.

Genes Discovered

1. Hossain,M.B., **Nasir, I. A.**, Tabassum, B. and Ahmed,S. 2011. Potato leaf roll virus coat protein-like (CP) gene, partial sequence. Accession No. JN039286, NCBI Gene Bank Database.
2. Hossain,M.B., Nasir,A., Ahmed,S. and Husnain,T 2011. Sugarcane mosaic virus coat protein-like (CP) gene, partial sequence. Accession No, JQ612542, NCBI Gene Bank Database.
3. Riazuddin,S.A., Shahzadi,A., Zeitz,C., Ahmed,Z.M., Ayyagari,R.,Chavali,V.R., Ponferrada,V.G., Audo,I., Michiels,C., Lancelot,M.E.,Nasir,I.A., Zafar,A.U., Khan,S.N., Husnain,T., Jiao,X.,MacDonald,I.M., Riazuddin,S., Sieving,P.A., Katsanis,N. and Hejtmancik,J.F. Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 1 (SLC24A1), transcript variant 2, mRNA. NCBI, GenBank Accession # NM_001254740.1.
4. Riazuddin,S.A., Shahzadi,A., Zeitz,C., Ahmed,Z.M., Ayyagari,R.,Chavali,V.R., Ponferrada,V.G., Audo,I., Michiels,C., Lancelot,M.E., Nasir,I.A., Zafar,A.U., Khan,S.N., Husnain,T., Jiao,X., MacDonald,I.M., Riazuddin,S., Sieving,P.A., Katsanis,N. and Hejtmancik,J.F. Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 1 (SLC24A1), transcript variant 1, mRNA. NCBI, GenBank Accession # NM_004727.2.
5. Riazuddin, S. A., Shahzadi,A., Zeitz, C., Ahmed, Z. M., Ayyagari,R.,Chavali,V. R., Ponferrada,V. G., Audo, I., Michiels, C., Lancelot, M. E., **Nasir, I. A.**, Zafar, A. U., Khan, S. N., Husnain, T., Jiao, X., MacDonald, I. M., Riazuddin, S., Sieving, P. A., Katsanis, N. and Hejtmancik, J .F. Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 1 (SLC24A1), RefSeqGene on chromosome 15. NCBI, GenBank Accession # NG_031968.1.
6. Arshad, J., Nasir,I. A., Shafiq, M., Tabassum, B., Haider, M. S.,Javed, M. A. and Husnain,T. Potato virus X CP gene for coat protien, isolate from Pakistan, genomic RNA. GenBank Accession # HE577130.1.
7. Ramzan,M., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Tabassum,B., Qamar,Z., Farooq,A.M. and Husnain,T. Bacillus sp. cemb02 16S ribosomal RNA gene, partial sequence. Accession no. KC928325.
8. Khan,A., Tariq,M., Tabassum,B. and Nasir,I.A. Klebsiella pneumoniae strain cemb3 16S ribosomal RNA gene, partial. Accession no. KC876640.
9. Shahid,H., Tariq,M., Shahid,S.A., Munim,A., Nasir,I.A. and Husnain,T. Enterobacter sp. cemb05 16S ribosomal RNA gene, partial sequence. Accession no. KF487556
10. Ramzan,M., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Tabassum,B., Qamar,Z., Farooq,A.M. and Husnain,T. Bacterium cemb06 16S ribosomal RNA gene, partial sequence. Accession no. KC928326
11. Ramzan,M., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Tabassum,B., Qamar,Z., Farooq,A.M. and Husnain,T. Burkholderia sp. cemb08 16S ribosomal RNA gene, partial sequence. Accession no. KC928327
12. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. Klebsiella sp. cemb10 16S ribosomal RNA gene, partial sequence. Accession no. KF487545

13. Shahid,H., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Awais,M. and Husnain,T. *Pseudomonas* sp. cemb13 16S ribosomal RNA gene, partial sequence. Accession no. KF176374
14. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Burkholderia* sp. cemb15 16S ribosomal RNA gene, partial sequence. Accession no. KF487546
15. Tariq,M., Nasir,I.A., Qamar,Z. and Husnain,T. *Bacillus* sp. cemb16 16S ribosomal RNA gene, partial sequence. Accession no. KF487554
16. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Burkholderia* sp. cemb19 16S ribosomal RNA gene, partial sequence. Accession no. KF487547
17. Tariq,M., Nasir,I.A., Shahid,S.A. and Husnain,T. *Bacillus* sp. cemb20 16S ribosomal RNA gene, partial sequence. Accession no. KF487557
18. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Klebsiella* sp. cemb21 16S ribosomal RNA gene, partial sequence. Accession no. KF487548
19. Awais,M., Tariq,M., Nasir,I.A., Husnain,T. and Qamar,Z. *Klebsiella* sp. cemb22 16S ribosomal RNA gene, partial sequence. Accession no. KF487553
20. Tariq,M., Nasir,I.A., Shahid,S.A. and Husnain,T. *Aurantimonas* sp. cemb23 16S ribosomal RNA gene, partial sequence. Accession no. KF487558
21. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Burkholderia* sp. cemb24 16S ribosomal RNA gene, partial sequence. Accession no. KF487549
22. Tariq,M., Nasir,I.A., Qamar,Z. and Husnain,T. *Bacillus* sp. cemb26 16S ribosomal RNA gene, partial sequence. Accession no. KF487555
23. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Lactobacillus* sp. cemb29 16S ribosomal RNA gene, partial sequence. Accession no. KF487550
24. Awais,M., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Shahid,H. and Husnain,T. *Klebsiella* sp. cemb30 16S ribosomal RNA gene, partial sequence. Accession no. KF176373
25. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Bacillus* sp. cemb31 16S ribosomal RNA gene, partial sequence. Accession no. KF487551
26. Ramzan,M., Nasir,I.A., Tariq,M., Khan,A., Shahid,S.A., Tabassum,B., Qamar,Z., Farooq,A.M. and Husnain,T. *Bacterium* cemb32 16S ribosomal RNA gene, partial sequence. Accession no. KC928323
27. Tariq,M., Tabassum,B., Nasir,I.A. and Husnain,T. *Paenibacillus* sp. cemb34 16S ribosomal RNA gene, partial sequence. Accession no. KF487552
28. Ramzan,M., Nasir,I.A. Tariq,M., Khan,A., Shahid,S.A., Tabassum,B., Qamar,Z., Farooq,A.M. and Husnain,T. *Bacterium* cemb35 16S ribosomal RNA gene, partial sequence. Accession no. KC928324
29. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Klebsiella variicola* 16S ribosomal RNA gene, partial sequence. Accession no. KC880196
30. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Klebsiella* sp. C18 16S ribosomal RNA gene, partial sequence. Accession no. KC880195
31. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Klebsiella* sp. C07 16S ribosomal RNA gene, partial sequence. Accession no. KC880194
32. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Klebsiella* sp. C03 16S ribosomal RNA gene, partial sequence. Accession no. KC880193
33. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Burkholderia cepacia* 16S ribosomal RNA gene, partial sequence. Accession no. KC880192
34. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Burkholderia* sp. C25 16S ribosomal RNA gene, partial sequence. Accession no. KC880191
35. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. *Burkholderia* sp. C24 16S ribosomal RNA gene, partial sequence. Accession no. KC880190

36. Shahid,S.A., Nasir,I.A., Rao,T., Khan,A., Tabassum,B. and Qamar,Z. Acinetobacter sp. C17 16S ribosomal RNA gene, partial sequence. Accession no. KC880189
37. Khan,A., Tabassum,B., Farooq,M., Ali,A., Ali,S., Tariq,M. and Nasir,I.A. Potato virus X isolate Pk coat protein (CP) gene, complete cds. Accession no. KC757709.
38. Khan, A., Sabir,K., Tabassum,B., Tariq,M., Ramzan,M., Shahid,A.A., Nasir,I.A. and Husnain,T. Hordeum vulgare isolate CEMB chitinase (Chi) mRNA, partial cds. Accession no. KC899774.

Publications

1. **Nasir, I. A.**, Khan, M. A. and Butt, S. J. (1994). In vitro culture of Date palm (*Phoenix dactylifera* L.) through excised embryo. *Sarhad J. of Agric.* 6: 633-637.
2. **Nasir, I. A.**, Afrasiab, H. and Riazuddin, S. (1996). Plant regeneration of Gladiolus through in vitro techniques. *J. of Bio-Sci.* 4: 165-169.
3. Afrasiab, H., **Nasir, I. A.** and Riazuddin, S. (1996). In vitro regeneration and plant establishment of Amaryllis (*Hippeastrum hybrida*). *J. of Bio-Sci.* 4:57-62.
4. Zafar, A. U., Karim, S., **Nasir, I. A.** and Riazuddin, S. (2000). Shelf Life and Field Evaluation of CAMB *Bacillus thuringiensis* Biopesticide Against *Helicoverpa armigera* (Hubner) (Lepidoptera:Noctuidae) on Tomato. *Pak. J. of Bio. Sci.* 3(5): 804-807.
5. Ahmad, T., Ahmad, M. S., **Nasir, I. A.** and Riazuddin, S. (2000). In-vitro production of cormlets in Gladiolus. *Pak. J. of Bio. Sci.* 2(5): 819-821.
6. Karim, S., Zafar, A. U., **Nasir, I. A.** and Riazuddin, S. (2000). Field Efficacy of CAMB *Bacillus thuringiensis*. Biopesticide of control *Helicoverpa armigera* (Hubner) and *Earias Vitella* (Fabricius) in Okra Crop. *Pak. J. of Bio. Sci.* 3(8): 1296-1298.
7. Rehman, Z., M., Zafar, A.U, Nasir, I. A. and Riazuddin, S. (2002). Comparative study of *Bacillus Thuringiensis* Biopesticides against Cotton Bollworms. *Asian J. of Plant Sci.* 1 (5): 574-576.
8. Zafar, A. U., **Nasir, I. A.**, Shahid, A. A., Rahi, M. S. and Riazuddin, S. (2002). Performance Evaluation of CAMB Biopesticides to Control Cabbage Butterfly (*Pieris brassicae*) in Cauliflower Crop. *Pak. J. of Bio. Sci.* 5 (10): 1041-1043.
9. Shahid, A. A., **Nasir, I. A.**, Sumrin, A., Zafar, A. U., Chaudhry, B. and Riazuddin, S. (2003). The use of CAMB Biopesticides to Control Pest of Rice (*Oryza sativa*). *Asian J. of Plant Sci.* 2: 1079-1082.
10. Ahmad, M. S., Ahmad, T., **Nasir, I. A.** and Nasreen, Z. (2006). Rapid Clonal Propagation of *Polyanthus tubrose* through High Frequency Dormant Shoot, Dormant Bud, Floral Stock, Bulb Auxillary Bud and Callus. *Pak. J. Sci. Ind. Res.* 2006 49(5): 344-348.
11. Zakia, L., **Nasir, I. A.** and Riazuddin, S. (2007). Indigenous production of synthetic seeds in *Daucus carota*. *Pak. J. Bot.* 39 (3): 849-855. **IF = 0.822**
12. **Nasir, I. A.** and Riazuddin, S. (2008) New approaches to generate disease-resistant Gladiolus. *World Journal of Microbiology and Biotechnology.* 24(3):367-373. **IF = 1.779**
13. **Nasir, I. A.** and Riazuddin, S. (2008). In vitro Selection for Fusarium Wilt Resistance in Gladiolus. *J. Integr. Plant Biol.* 50 (5): 601–612. **IF = 3.335**

14. Ahmad, I., **Nasir, I. A.**, Haider, M. S., Javed M. A., Javed, M. A and Husnain, T. (2010). In Vitro Induction of Mutation in Potato Cultivars. Pak. J. Phytopathol. 22(1):51-57.
15. Perveen, R., Khan, M. A., Noor-ul-Islam, Haider, S. and **Nasir, I. A.** (2010). Whitefly population on different cotton varieties in Punjab. Sarhad J. Agri. 26 (4): 583-589.
16. Farooq, A. M., **Nasir, I. A.**, Bushra, T., Javed, M. A and Husnain, T. (2010). Androgenesis induction, Callogenesis, Regeneration and Cytogenetic studies of tomato haploid. Journal of Agri. Research. 48 (4):457-470.
17. **Nasir, I. A.**, Bushra, T., Haider, M. S. and Javed, M. A. Husnain, T. (2010). Strategies to control Potato Virus Y under in vitro conditions. Pakistan J. Phytopath. 22 (1):63-70.
18. Jahangir, G. Z., **Nasir, I. A.**, Sial, R. A., Javid, M. A. and Husnain, T. (2010). Various Hormonal Supplementations Activate Sugarcane Regeneration In-Vitro. Journal of Agricultural Science: 2 (4):231-237.
19. Bushra, T., **Nasir, I. A.** Farooq, A. M., Rahman, Z. and Husnain, T. (2010). Viability assessment of in-vitro produced synthetic seeds of cucumber. African Journal of Biotechnology. 9 (28):7026-7032. **IF = 0.537**
20. Awan, A. R., Haq, I. U., Babar, M. E. and **Nasir, I. A.** (2010) Molecular Detection of Potato Leaf Roll Polerovirus through Reverse Transcription Polymerase Chain Reaction in Dormant Potato Tubers. Pakistan Journal of Botany. 42(5): 3299-3306. **IF = 0.822**
21. Rao A.Q, Bakhsh A, S.Riazuddin, **Nasir, I. A.** and Husnain T (2010) Phytochrome B mRNA expression enhances Biomass yield and physiology of cotton plants African journal of Biotech. 10 (10): 1818-1826. **IF = 0.537**
22. Rao A.Q, Irfan M, Saleem Z, Nasir I. A., S. Riazuddin and Husnain T. (2010) Overexpression of the phytochrome B gene from Arabidopsis thaliana increases plant growth and yield of cotton (Gossypium hirsutum). Journal of Zhejiang University Science B. 12 (4): 326-334. **IF = 1.278**
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