CURRICULUM VITAE

Name: MUHAMMAD SAEED

Date of Birth: 06-l l-1968

Marital status: Married

Field of Specialization: Plant Molecular Biology

Affiliation in Pakistan: National Institute for Biotechnology & Genetic Engineering, Faisalabad

Telephone (O/H): +92-41-2651475-9

(A/H): +92-346 6037 405

Email: msaeed@nibge.org
saeed_hafeez@yahoo.com

Educational Qualifications:

Year	Qualification	Institute	Major Subject	Division/ Grade	Percentage
2007	PhD	University of Adelaide, Australia	Plant Molecular Virology	NA	NA
1993	M.Sc. (Hons.) Plant Genetics	University of Agriculture, Faisalabad	Plant Breeding, Genetics, Cytogenetics, Evolution, Biochemistry, Botany	First/B	78
1991	B.Sc. (Hons.) Plant Breeding	University of Agriculture, Faisalabad	Plant Breeding, Genetics, Plant Pathology, Entomology, Horticulture	First/B	71
1986	F. Sc.	Govt. College, Gujranwala	Biology, Chemistry, Physics, English, Social Science	First/B	65
1983	Matriculation	G.I.H. School, Gujranwala	Biology, Chemistry, Physics, Mathematics, English	First/A	78

Employment/Postgraduate History:

Jan 2007 to date **Principal Scientist at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan**

- Understand resistance mechanism against cotton leaf curl disease (CLCuD) in diploid cotton cultivar
- Isolation CLCuD resistant gene from diploid cotton

Sep 2006 to Nov 2006 **Aluminium Tolerance in Rye at Australian Centre for Plant Functional Genomics Hartley Grove, Urrbrae SA 5064**

Aug 2002 to Sep 2006 **PhD Student**
CSIRO Plant Industry/University of Adelaide, Australia

- Pathogenicity analysis of a novel single-stranded DNA satellite molecule associated with Cotton leaf curl disease (CLCuD). Mol. Plant-Microbe Interact. 18, 7-14
- Role of DNA satellite in viral movement (Manuscript submitted to J Gen Virol)

Dec 1998 to August 2002 **Senior Scientist**
NIBGE

- Interaction of DNA satellite molecule with its helper viruses. Arch. Virol. 148, 1969-1986
- Molecular characterization of *Tomato leaf curl virus* in Pakistan

Jun 1996 to Nov 1998 **Junior Scientist**
NIBGE

- Identification of a novel circular single-stranded DNA associated with CLCuD (Virology 259, 190-199)
- Identification of two species of *Cotton Leaf Curl Virus* (CLCuV)

Apr 1995 To Jun 1996 **Research Fellow**
NIBGE

- Isolation and cloning of CLCuV
- Development of polyclonal antibodies against CLCuV

Mar 1993 Dec 1993 **National Centre of Excellence in Molecular Biology, Lahore, Pakistan**

- Incomplete M. Phil/PhD Studies in Molecular Biology; two terms course work and six months in lab working on plant cell & tissue culture.

Membership of Scientific Societies

- Life member Pakistan Botanical Society
- Life member Biotechnology Society of Pakistan
- Australian Society for Microbiology (2005-6)
- British Society for Plant Pathology (2005-6)

Award and Prizes

- ✓ Earned excellent score in GRE Subject Test in 1995 and 2000 (Biochemistry, Cell and Molecular Biology) administrated by Education Testing Services, Princeton New Jersey, USA

Publications

1. Mansoor, S., Khan, S.H., **Saeed, M**., Bashir, A. Zafar, Y. and Malik, K. A. 1997. Evidence for the association of a bipartite geminivirus with tomato leaf curl disease in Pakistan. Plant Disease 8l, 958 (**Impact factor: 1.795/Citation: 2**).
2. Mansoor, S., Bashir, A. **Saeed, M**., Khan, S. H., Hussain, M. Zafar, Y. and Malik, K. A. 1999a. Rapid multiplex PCR for the specific detection of two whitefly-transmitted geminivirus species associated with cotton leaf curl disease in Pakistan. Pak. J. Bot. 31, 115–123 (**Impact factor: 0.106/Citation: 4**).
3. Mansoor, S., Khan, S. H., Bashir, A., **Saeed, M.**, Zafar, Y., Malik, K. A., Briddon, R. W., Stanley, J., and Markham, P. G. 1999b. Identification of a novel circular single-stranded DNA associated with cotton leaf curl disease in Pakistan. Virology 259, 190-199 (**Impact factor: 3.525/ Citation: 48**).
4. Mansoor, S., Briddon, R. W., Bull, S. E., Bedford, I. D., Bashir, A., Hussain, M., **Saeed, M.**, Zafar, Y., Malik, K. A., Fauquet, C. M., and Markham, P. G. 2003. Cotton leaf curl disease is associated with multiple monopartite begomoviruses supported by single DNA β. Arch. Virol. 148, 1969-1986. (**Impact factor: 1.850 /Citation: 20**).

5. **Saeed, M.**, Behjatnia, S. A., Mansoor, S., Zafar, Y., Shahida, H., and Rezaian, M. A. 2005. A single complementary-sense transcript of a geminiviral DNA β satellite is determinant of pathogenicity. Mol. Plant-Microbe Interact. 18, 7-14. (**Impact factor: 3.936/Citation: 18**).

6. Bian, X.–Y., Thomas, M. R., Rasheed, M. S., **Saeed, M.** Hanson, P., De Barro, P. J. Rezaian, M. A. 2007. A recessive locus (*tgr-1*) conditioning tomato resistance to multiple geminiviruses is associated with impaired viral movement. Phytopathology 97, 930-937. (**Impact factor: 2.195**).

7. **Saeed, M**., Zafar, Y. Randles, J. W. and Rezaian, .M. A. A monopartite begomovirus-associated DNA β satellite substitutes for the DNA B of a bipartite begomovirus to permit systemic infection. J. Gen. Virol. 88, 2881-2889. (**Impact factor: 3.110**).

8. Collins, N. C., Shirley, N. J., **Saeed, M.**, Pallotta, M. and Gustafson, J. P. An *ALMT1* gene cluster controlling aluminium tolerance at the *Alt4* locus of rye (*Secale cereale* L.) (*Accepted Genetics*, **Impact factor: 4.242***)*.

9. **Saeed, M**., Briddon, R. W., Mansoor, S. Rezaian, .M. A. and Randles, J. W. Satellite DNA β overrides the pathogenicity phenotype of the C4 gene of *Tomato leaf curl virus*, but does not compensate for loss of function of the V1 and V2 genes. (A*ccepted Arch. Virol.*, **Impact factor: 1.850**).

10. **Saeed, M** and Randles J. W. Critical analysis of geminivirus infectivity through agroinoculation. (*In preparation for Virus Genes*, **Impact factor: 1.102**)

- **Total Impact Factor**: **22.60**
- **Total Citations: 92**

Posters/papers presented at National and International Conferences

A. Bashir, S. Mansoor, **M. Saeed**, S. Shabnam, R. Tanvir, Y. Zafar and K. A. Malik. 1996. Isolation, purification and molecular characterization of *Cotton leaf curl virus*. Proceeding of 1st International Conference and Symposium on Phytopathology, 6th - 7th March, 1996

Y. Zafar, A. Bashir, S. Mansoor, **M. Saeed**, S. Asad, N. A. Saeed., S. Shabnam, M. Iqbal, and K. A. Malik. 1996. Molecular and biological characterization of cotton leaf curl virus and development of virus resistant cotton through genetic engineering. Proceeding of 1st National Biotechnology Meeting by Centre for Agriculture Biochemistry and Biotechnology (CABB), University of Agriculture, Faisalabad.

A. Bashir, S. Shabnam, S. Aftab, **M. Saeed**, N. A. Saeed, S. Mansoor. Y. Zafar and K. A. Malik. 1996. Isolation, identification and molecular characterization of *Cotton leaf curl virus* in Pakistan. Proceeding of the Bellagio Conference "Whiteflies and Viruses: Menace to World Agriculture" 12th -16th August, 1996. Bellagio, Italy

A. Bashir, **M. Saeed**, S. Mansoor, S. Shabnam, Y. Zafar, K. A. Malik, R. N. Beachy, and C. M. Fauquet. 1997. Evidence for the presence of two new geminivirus species infecting cotton in Pakistan. 5th International Congress of Plant Molecular Biology, 21st - 27th September, 1997, Singapore

Y, Zafar, A. Bashir, S. Mansoor, **M. Saeed**, S. Asad, N. A. Saeed., R. Briddon. P. G. Markham, C .M. Fauquet, and K. A. Malik. 1997. Cotton Leaf Curl virus epidemic in Pakistan: Virus characterization, diagnosis and development of virus-resistant cotton through genetic engineering 56th Plenary Meeting of the International Cotton Advisory Committee October 1997 Asuncion, Paraguay

S. Mansoor, S.H. Khan, M. Hussain, A. Bashir, **M. Saeed**, Y. Zafar, J. Stanley, R. Briddon, P. G. Markham and K.A. Malik. 1999. DNA variants among Pakistan isolates of *Cotton leaf curl virus*. Proceedings of ICAC-CCRI Regional consultation: Insecticide Resistance Management in Cotton. 28th June to 1st July, 1999. Multan, Pakistan.

M. Saeed, L Selth, S. A. Akbar Behjatnia, S. Mansoor, Y. Zafar, and M. A. Rezaian. 2004. Pathogenesis of DNA beta, a satellite molecule associated with cotton leaf curl disease in Pakistan. Poster presented at 4th International Geminivirus Symposium & 2nd International ssDNA Comparative Virology Workshop, 15th - 20th February 2004, Cape Town, South Africa.

M. **Saeed,** S. A. Akbar Behjatnia, S. Mansoor, Y. Zafar, and M. A. Rezaian. 2004. Pathogenesis of DNA β, a satellite molecule associated with cotton leaf curl disease in Pakistan. Talk presented at 6th Australian Plant Virology Conference, 30th August - 2nd September 2004, Sea World Nara Resort, Gold Coast, Queensland, Australia.

M. **Saeed,** Y. Zafar, and M. A. Rezaian. 2005. A geminiviral DNA β satellite can substitute DNA B of a bipartite virus for infection and complement the C4 mutant of a monopartite virus. XIII International Congress of Virology July 23-28, 2005, San Francisco, USA

M. **Saeed,** Y. Zafar, and M. A. Rezaian. 2005. A geminiviral DNA β satellite can substitute DNA B of a bipartite virus for infection and complement the C4 mutant of a monopartite virus. ASM 2005, 25 - 29 September 2005, National Convention Centre, Canberra

M. **Saeed,** Y. Zafar, and M. A. Rezaian. 2005. Complementation of a bipartite begomovirus movement functions by a DNA β satellite. BSPP Presidential Meeting 2005 - Plant Pathology with a Purpose, 19-21 December, Nottingham, UK

M. Saeed, Zafar, Y., Randles, J., Rezaian, M. A., 2006. Complementation of a bipartite begomovirus movement functions by a DNA β satellite. 8th International Congress of Plant Molecular Biology. 20th-25th August, 2006, Adelaide, Australia.

Saeed, M., Mansoor, S., Zafar, Rezaian M. A. 2007. The role of cotton leaf curl disease-associated DNA β satellite in viral pathogenicity and movement. National Conference on Cotton. 2-3 May, 2007, Faisalabad, Pakistan.

***Saeed, M.**, Randles, J., W., Zafar, Y. and Rezaian, M. A. DNA β complements the DNA B of a bipartite begomovirus. 5th International Geminivirus Symposium and 3rd International ssDNA Comparative Virology Workshop. 20th – 26th May 2007. Ouro Preto, Brazil.*

Professional Referees

Dr. Ali Rezaian

Adjunct Professor,

Plant and Pest Sciences,

University of Adelaide,
Waite Campus, Urrbrae SA 5064
Tel: +618 8303 8634, Fax : +618 8303 6735
Email: ali.rezaian@bigpond.com

Dr. John Randles
Professor,
Plant and Pest Sciences,
University of Adelaide,
Waite Campus, Urrbrae SA 5064
Tel: 08 8332 0124, Fax: 08 8303 6735
Email: john.randles@adelaide.edu.au

Dr. Shahid Mansoor
Head,
Plant Biotechnology Division,
NIBGE Jhang Road Faisalabad
Tel: 041-2651475
Email: smansoor@nibge.org

Dr. Nick Collins
Head of Positional Cloning,
Australian Centre for Plant Functional Genomics
Hartley Grove, Urrbrae SA
Tel: +61 8 8303 7171, Fax: +61 8 8303 7102
Email: nick.collins@acpfg.com.au

Dr. Ian Dry
Principal Research Scientist
CSIRO Plant Industry
Hartley Grove, Urrbrae SA 5064
Tel: +61 8 8303 8632, Fax: +61 8 8303 8601
Email: ian.dry@csiro.au