




DR. SALMA JAVED	Address 	House # 418, Block-3, Shah Faisal Colony, Karachi-75230, Pakistan
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CAREER OBJECTIVE

An enthusiastic, adaptive and fast learning person seeking a challenging career in a dynamic research organization where I can utilize my skills gained through studies and research work in the field of biopesticide and molecular biology. Ambition is to eventually have broad-based academic career including teaching, research and management responsibilities.

EDUCATION

Particulars	Institute	Year
PhD in Nematology (Biological Science)	National Nematological Research Center (University Of Karachi)	2013
Masters of Philosophy in Nematology	National Nematological Research Center (University Of Karachi)	2011
Bachelors of Science in Agriculture	Department of Agriculture and Agribusiness (University of Karachi)	2007

EXPERIENCE

National Nematological Research Centre **November 13, 2014 – Present**
University of Karachi

- ❖ **Designation**
 Research Officer/ Lecturer for MS Students
 BPS-17
 Government of Pakistan

National Nematological Research Centre **August 1, 2010 – October 30, 2014**
University of Karachi

- ❖ **Designation**
 Research Associate
- ❖ **Projects**
 1. **Project no PSF/NSLP/S-KU (65)** Entitled "Application of biopesticides
 2. entomopathogenic nematodes in vegetables fields affected with root knot nematode (August 1, 2010 – June 31, 2012)
 3. **Project no PSF/ILP/S-KU/Bio (047)** Entitled "Molecular Characterization, Mass Production and formulation of Entomopathogenic Nematodes. (July 1,2012 – October 31, 2014)

Department of Agriculture and Agribusiness **January 1, 2010 – December 30, 2010**
University of Karachi

- ❖ **Designation**
 Visiting Lecturer
- ❖ **Courses' Responsibilities**
 1. Introduction to Plant Protection
 2. Post-harvest management & processing

RESEARCH TRAININGS

Guangdong Entomological Institute
105 Xingang Road West Guangzhou 510260, China

July 8, 2012 – August 19, 2012

❖ **Designation**
Research Associate

❖ **Research**
Molecular characterization, mass production and formulation of Entomopathogenic nematodes

Wheat Wide Crosses & Cytogenetic
National agricultural Research Council, Islamabad

May 10, 2010 – May 21, 2010

❖ **Designation**
Internee

❖ **Research**
Molecular techniques, Double haploidy, Cytogenetics

HEJ Research Institute
University of Karachi, Karachi.

June 15, 2007 – September 15, 2007

❖ **Designation**
Internee

❖ **Research**
Banana Tissue Culturing and Biotransformation of Artemether Using Cell Suspension Culture of *Catharanthus roseus*

National Nematological Research Centre
University of Karachi

November 1, 2006 – December 30, 2006

❖ **Designation**
Internee

❖ **Research**
Identification of Field Nematodes and their Damages. Biocontrol of Different Insect By Using Entomopathogenic Nematode

RESEARCH PUBLICATIONS

2016

1. Shahina F, Tabassum K. A., Salma J., Mehreen G., Knoetze R. *Heterorhabditis pakistanense* n. sp. (Nematoda: Heterorhabditidae) a new entomopathogenic nematode from Pakistan. *J. Helminthol.*

2015

1. Shahina, F., Tabassum, K. A., Shaukat, A., Solangi, G. S., Mehreen, G. & **Salma J.** A new entomopathogenic nematode, *Steinernema blaochiense* n.sp. (Rhabditida: Steinernematidae) from Pakistan. *Zootaxa*, 3904: 387-402.

2. Shahina, F., K. Nasira, **J. Salma**, G. Mehreen & M. I. Bhatti (2015). Description of a new root-knot nematode, *Meloidogyne pakistanica* sp. n. (Nematoda: Meloidogynidae). *International Journal of Nematology*, 25 (2): 135-144.

2014

1. F. Shahina, Y. Xun, Q. Lihong., H. Richou, G. Mehreen , A.K. Tabassum & **J. Salma**. A new entomopathogenic nematode, *Steinernema bifurcatum* n. sp. (Rhabditida: Steinernematidae) from Punjab, Pakistan. *Nematology*, 16, 821 – 836.

2013	<ol style="list-style-type: none"> 1. F. Shahina, A. K. Tabassum, G. Mehreen & J. Salma. <i>Steinernema maqboolii</i> n. sp. (Rhabditida: Steinernematidae) of the 'bicornatum' group from Pakistan. <i>Int. J. Nematol.</i>, 23: 59-72. 2. Salma, J. and F. Shahina Survival analysis of IJs for mass production of entomopathogenic nematodes (Steinernematidae and Heterorhabditidae). <i>Pak. J. Nematol.</i>, 31:171-178
2012	<ol style="list-style-type: none"> 1. F. Shahina, K. Firoza, G. Mehreen, J. Salma & M. I. Bhatti. Molecular characterization of root-knot Nematodes with five new host records From Pakistan. <i>Pak. J. Nematol.</i>, 30:129-141. 2. F. Shahina, A. K. Tabassum, J. Salma & G. Mehreen. Re-description of <i>Steinernema litorale</i> Yoshida, 2004 (Nematoda: Steinernematidae) on the basis of morphometric, ITS1-5.8S-ITS2 and mitochondrial region from Pakistan <i>Int. J. Nematol.</i>, 22: 81-93. 3. F. Shahina & J. Salma. Mass production of eight Pakistani strains of entomopathogenic nematodes (Steinernematidae and Heterorhabditidae). <i>Pak. J. Nematol.</i>, 30: (1) 1-20.
2011	<ol style="list-style-type: none"> 1. F. Shahina, A. R. Kazmi, A. K. Tabassum, J. Salma & G. Mehreen. Pathogenicity of <i>Xenorhabdus nematophila</i> (Strain Ham 10) against wax moth larvae and vine mealy bug in Pakistan. <i>Pak. J. Nematol.</i>, 29: 15-23. 2. F. Shahina, A. K. Tabassum, J. Salma & G. mehreen. Biopesticidal affect of <i>Photorhabdus luminescence</i> against wax moth larvae and subterrian termite (Termitidae: Macrotermis). <i>Pak. J. Nematol.</i>, 29: 35-43. 3. F. Shahina & J. Salma. Pakistani strains of entomopathogenic nematode as a biological control agent against stored product pest <i>Triboilium castaneum</i>. <i>Pak. J. Nematol.</i>, 29: 15-23. 4. F. Shahina & J. Salma. Virulence of Pakistani strains of entomopathogenic nematode against <i>Lasioderma serricorne</i>. <i>Int. J. Nematol.</i>, 21: 79-85.
2010	<ol style="list-style-type: none"> 1. F. Shahina & J. Salma Laboratory evaluation of Pakistani strains of entomopathogenic nematode against a stored product insect pest, rice weevil <i>Sitophilus oryzae</i>. <i>Pak. J. Nematol.</i>, 28: 295-305. 2. F. Shahina, A. R. Kazmi, A. K. Tabassum, G. Mehreen & J. Salma "Evaluation of <i>Xenorhabdus nematophila</i> from <i>Steinernema asiaticum</i> against wax moth larvae and vine mealy bug in Pakistan <i>Int. J. Nematol.</i>, 20: 203-210.
2009	<ol style="list-style-type: none"> 1. F. Shahina, J. Salma G. Mehreen, A. K. Tabassum, & I. H. Bhatti. Rearing of <i>Rhynchophorus ferrugineus</i> (Oliv) in Laboratory and Field conditions for carrying out efficacy studies using EPN. <i>Pak. J. Nematol.</i>, 27: 219-228. 2. F. Shahina, G. mehreen, J. Salma, A. K. Tabassum, & I. H. Bhatti. <i>Rhynchophorus ferruginus</i> control using various entomopathogenic nematode isolates from Pakistan. <i>Int. J. Nematol.</i>, 19: 219-228. 3. F. Shahina & J. Salma. Laboratory evaluation of seven Pakistani strains of entomopathogenic nematode against <i>Callosobruchus chinensis</i>. <i>J. Nematol.</i>, 41- 255-260.
BOOKLETS	
2012	<p>Shahina, F and J. Salma Biological control of root-knot nematodes of tomato (<i>Solanum lycopersicum</i> L.). National Nematological Research Center, University of Karachi, Karachi, Pakistan Science Foundation, Islamabad. BC&T. Press university of Karachi. 16 pp</p>

PATENTS	
Awarded 140579	F. Shahina, A. R. Kazmi, A. K. Tabassum, G. Mehreen & J. Salma "A biopesticide <i>Xenorhabdus nematophila</i> (Strain Ham 10) against wax moth larvae and vine mealy bug in Pakistan.
Awarded 140580	F. Shahina, A. K. Tabassum, J. Salma & G. mehreen "Pathogenicity of <i>Photorhabdus luminescence</i> against wax moth larvae and subterrian termite (Termitidae: <i>Macrotermis</i>)"
Awarded 141447	Shahina Fayyaz, M. H. Soomro and J. Salma A process of preparation in vivo and in vitro methods for mass production of entomopathogenic nematodes as a biological control agent, alternative to chemical control.
Patent No. 364/2013	Shahina, F., G. Mehreen and J. Salma (2013). Process of preparation of biopesticide PAK.S.S.71, a novel heat tolerant strain for suppression of field pest, root knot nematodes
SEMINARS / CONFERENCES / WORKSHOPS	
9-12 April 2013	National workshop on "Organic product certification" held on organized by Asian productivity organization in Karachi, Pakistan
17-18 January 2013	Two days workshop on "Project formulation" held on at Dr. A.Q. Khan institute of Biotechnology and Genetic engineering Auditorium, University of Karachi.
24-26 May 2012	12 th Nematological event "International workshop on biological control of root knot nematodes in vegetables using EPNs" on, held at University of Karachi, Karachi.
01 February 2012	Patent protection for R & D organized by PASTIC, PSF/HEJ/ICCBS, Karachi
7-9 June 2011	Three day national symposium on biodiversity of Pakistan organized by Pakistan Museum of natural history, Pakistan science Foundation Islamabad.
12 May 2011	One day workshop on Apiculture by Shah farms, Department of Apiculture and Agribusiness management, University of Karachi, Karachi, Pakistan.
3-5 January 2011	1 st International Conference of chemistry and its role in science held at Jinnah University for women, Karachi.
11-15 July 2010	43rd Annual meeting of the society for invertebrate pathology, 10th international colloquium on invertebrate pathology and microbial control, and the first meeting COST862: Bacterial Toxins for insect control, Trabzon Turkey.
02-13 January 2010	Five days' workshop on "Green spin in Biotechnology" organized by the Dr. A.Q Khan Institute of Biotechnology and Genetic engineering, University of Karachi, Karachi.
17-20 August 2009	Four day workshop on "Biofertilizer: importance and development using indigenous resources" organized by Centre for molecular Genetics, University of Karachi and DFID U.K and British Council, Karachi.
8 May 2009	One day seminar: Agriculture in Pakistan, Department of Apiculture and Agribusiness management, University of Karachi.
09-12 April 2009	International Symposium on the Research and Development of Entomopathogenic Nematode in Sanya, China organized by Guangdong Entomological Institute.
20-23 December 2008	35 th All Pakistan Science Conference on Organized by international centre for chemical and biological science/ LEJ under the auspices of University of Karachi, Karachi, Pakistan Association for advancement of science (PAAS) and Pakistan Society of Nematology.

28-30 March 2007	International Symposium Prospects of Horticultural Industry in Pakistan on Organized by University of Agriculture, Faisalabad.
25-27 April 2006	6th National Nematological Conference in Pakistan & Workshop "Integrated Nematode Disease Management held at University of Karachi, Karachi.

CONFERENCE PAPERS DELIVERED

3-5 January 2011	1st International Conference of chemistry and its role in science held at Jinnah University for women, Karachi.
11-15 July 2010	43rd Annual meeting of the society for invertebrate pathology, 10th international colloquium on invertebrate pathology and microbial control, and the first meeting COST862: Bacterial Toxins for insect control, Trabzon Turkey.
9-12 April 2009	In International Symposium on the Research and Development of Entomopathogenic Nematode held in Sanya, China organized by Guangdong Entomological Institute.
20-23 December 2008	In 35th All Pakistan Science Conference, held at University of Karachi, Karachi

ACHIEVEMENTS

- ❖ Pakistan society of Nematologist awarded in the oral presentation in 10th Nematological event "International Conference on Nematology in Pakistan & 35th All Pakistan Science Conference, 20-23 December 2008 held at University of Karachi, Karachi.
- ❖ Department of Agriculture selected me a President of Agarians Alumini Association in 2007.
- ❖ 1st time in History of Pakistan, I Salma Javed got success with my supervisor Prof. Dr. Shahina fayyaz and my team member in making the genomic/ library database of entomopathogenic nematodes (EPN) and Root knot nematodes (RKN). In this connection more than 100 isolates of EPN and more than 75 of RKN have so far been sequenced for their identify using ITS, mt DNA and D2D3 and accession numbers are registered in NCBI Gene bank, USA and also updated sequenced of new and known worldwide reported species of EPN and RKN nematodes. This standardizes the catalogue and achieves genetic associated data and makes it easily accessible to the scientific community.

RESEARCH SKILLS

- ❖ Command on SPSS, Costat, Bio stat, MiniTab.
- ❖ Command on Mega, PAUP and Bioedit for automatic and manual sequence alignment, inferring phylogenetic trees, and maximum parsimony analysis, neighbour bootstrap analysis, mining web-based databases, estimating rates of molecular evolution, inferring ancestral sequences, and testing evolutionary hypotheses.

MOLECULAR BIOLOGY: ACCESSIONS NO - NATIONAL CENTRE FOR BIOTECHNOLOGY INFORMATION (NCBI)

1. JF775374	27. JQ894822	53. JX144735	79. JQ838176	105. JN599143
2. JF775375	28. JQ894823	54. JX135553	80. JQ838177	106. JQ838181
3. JF892544	29. JQ894824	55. JX144734	81. JQ838178	107. JQ838182
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7. JN157769	33. JX110444	59. JX144742	85. JX068825	111. JX144739
8. JN157770	34. JX110445	60. JX232282	86. JX068821	112. JX068826
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11. JN157773	37. JX135545	63. JX144741	89. JX068820	115. JQ806342
12. JN157774	38. JX135546	64. JX232285	90. JN571098	116. JQ806344
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18. JN571090	44. JX068815	70. KC625527	96. JN571104	122. JQ806352
19. JN571091	45. JX068816	71. KC625528	97. JN571105	123. JQ731889
20. JN571092	46. JX135555	72. KC625529	98. JN571106	124. JQ731886
21. JN571093	47. JX135556	73. KC625519	99. JN571107	125. JQ806349
22. JN571094	48. JX135557	74. KC625520	100. JN599138	126. JQ806346
23. JN571095	49. JX135551	75. KC625521	101. JN599139	127. JQ806343
24. JN571096	50. JX135554	76. KC625522	102. JN599140	128. JQ806350
25. JN571097	51. JX135558	77. KC625523	103. JN599141	129. JQ806347
26. JQ894821	52. JX144733	78. JQ795723	104. JN599142	130. JQ731888

PERSONAL

Marital Status	Married
Husband's Name	Qaseem Usman Rais
CNIC #	42201-7013931-8
Passport #	AQ8679312
Nationality	Pakistani
Date of Birth	August 25, 1985

REFERENCES

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