

## Curriculum Vitae

**DR. MOHAMMAD NISAR**



### Contact Details:

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**Permanent Address:** Village and Post Office Bar Sherpalam, Tehsil Matta, District Swat N-W.F.P  
**Mailing Address:** Department Of Botany, University Of Malakand, Chakdara Dir (Lower) N-W.F.P  
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### Personal Details:

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**Date of Birth:** March 10, 1976  
**Residence Status:** Citizen of Pakistan

### Qualifications:

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**Degree:** **Doctor of Philosophy (Ph. D)**  
**Year of Completion:** 2009  
**University:** Quaid-i-Azam University, Islamabad (Pakistan)  
**Research Topic:** "Genetic Diversity in *Pisum sativum* based on Morphological and Molecular characterization (SDS-PAGE, RAPD)

**Degree:** **Master of Philosophy (M. Phil)**  
**Year of Completion:** 2004  
**University:** Quaid-i-Azam University, Islamabad (Pakistan)  
**Research Topic:** "Genetic Diversity in *Cicer arietinum* L. based on Morphological and Molecular characteristics

**Degree:** **Master of Science (Botany)**  
**Year of Completion:** 2002  
**University:** University of Peshawar, N-W.F.P (Pakistan)  
**Research Topic:** "Family Rosaceae of district Swat

**Degree:** **Bachelor of Science (Botany)**  
**Year of Completion:** 1999  
**University:** University of Peshawar, N-W.F.P (Pakistan)

**Degree:** **Higher Secondary School Certificate**  
**Board:** Board of Intermediate & Secondary Education, Swat, N-W.F.P (Pakistan)

**Degree:** **Secondary School Certificate**  
**Board:** Board of Intermediate & Secondary Education, Swat, N-W.F.P (Pakistan)

### Work Experience:

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**Jan 14, 2009 till up-to-date:** Assistant Professor in the Department of Botany, University of Malakand, NWFP, Pakistan; on Tenure Track System (TTS).  
Job Title: **Assistant Professor**  
PBS: 19

**Dec 03, 2008 Jan 13, 2009:** Assistant Professor in the Department of Botany, University of Malakand, NWFP, Pakistan  
Job Title: **Assistant Professor**  
PBS: 19

**Nov. 2007 Dec 02, 2008:** Assistant Professor in the Department of Biotechnology, Faculty of Applied Sciences, University of Science and Technology, Bannu  
Job Title: **Assistant Professor**  
PBS: 19

**Nov. 2006 June 2007:** Six months teaching experience as a Lecturer in Department of Genetics Hazara University, Mansehra NWFP, Pakistan  
Job Title: **Lecturer**  
PBS: 17

**May 2003-Oct. 2006:** **THREE** years and **EIGHT** months' research experience under Agriculture Linkages Program Project in the Institute of Agri-Biotechnology and Genetic Recourses, NARC, Islamabad Pakistan.  
Job Title: **Reach Fellow/Scientist**  
PBS: 17

### **Contribution during stay at Hazara University NWFP Pak:**

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- 1- Established Proteomic and Genomics lab
- 3- Prepared PC-1 for Botany and Genetics Lab

### **Contribution during stay at Bannu University of Science & Technology NWFP Pak:**

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- 1- Designed green house and field layout for Biotechnological experiments (4 million )
- 2- Established Bannu GeneBank (Launched in January 2008- present status 500 genotypes)
- 3- Prepared PC-1 for Biotechnology lab (on final stage)

### **Laboratory Work:**

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- Gene Mapping
- PCR based analysis
- SDS-PAGE analysis
- Morphometrics
- Using Statistical software

### **Academic Awards / Qualifications:**

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- Approved Ph. D. supervisor by the HEC, Pakistan
- Reviewer of Pakistan Science Foundation Projects

### **Reviewer of International Journals:**

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- African Journal of Biotechnology
- Journal of Agriculture Sciences(UK press)
- Reviewer of Journal of Plant Breeding and Crop Sciences

### **Ph. D Students Supervision (in progress):**

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<b>S #</b>	<b>Name of Student</b>	<b>Title</b>	<b>Year of Registration</b>
1.	Mr. Ali Hazrat	Taxo-Ethnobotany and DNA Finger Printing of Some elite species of Ranunculaceae, District Dir, N.W.F.P, Pakistan	25-11-2005
2.	Miss. Zakia Ahmad	Exploration, Collection, Biochemical and Molecular evaluation of Pakistani Chickpea germplasm	23-06-2009

### **M. Phil Students Supervised (Completed)**

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<b>S #</b>	<b>Name of Student</b>	<b>Title</b>	<b>Year of Registration</b>	<b>Completion Date</b>
1.	Sujaul Mulk Khan	Genetic Diversity in Pakistani Peas Germplasm through RAPD Markers	Spring, 2006	28-04-2008
2.	Farzana Akram	Genotypic elaboration of Chickpea Lines using DNA Markers	Autumn, 2005	12-04-2008

### **M. Phil Students Supervision (in progress):**

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<b>S#</b>	<b>Name of Student</b>	<b>Year of Registration</b>
3.	Mr. Irfan Ullah	April, 2008
4.	Mr. Zakir Ullah	April, 2008

### BS (Hons.) Students Supervision (in progress):

S#	Name of the Student	Topic	Completed
1.	Naeem Khan	Genetic Diversity based on morphometric and molecular characterization and Immune Response of Wheat Germplasm collected from Waziristan Agency, Pakistan	25/11/2009
2.	Zubir Khan	Exploration of the Medicinal flora of District Dir, NWFP, Pakistan	25/11/2009
3.	Kahlid Khan	Indigenous uses of the local flora of District Swat, NWFP, Pakistan for health care	25/11/2009
4.	M. Sabir Khan	A pictorial guide to the medicinal plants of Shamoza area of District Swat, NWFP, Pakistan	25/11/2009
5.	Hanif Khan	Genetic diversity and conservation of the local flora of Dir (lower), NWFP, Pakistan	25/11/2009
6.	Asif Mehmood	First report on the Genetic diversity of <i>Malus pumila</i> from Malakand Division, NWFP, Pakistan	25/11/2009
7.	Ihsan Ul Huq	Morphological Genetic diversity in <i>Prunus persica</i> reported from Malakand Division, NWFP, Pakistan	25/11/2009

### Achievements during Ph. D Research Work:

- 1- Selection of 3 super Resistant Genotype and 12 disease escaping (Work Published in Poland)
- 2- Mapped **er-1** gene of *Erysiphe pisi* on chromosome IV of *Pisum sativum*
- 3- Three Super lines GN070140-2, GN070143-1 GN070140-0 were selected for cultivation (in-near future) in Pakistan (Work Published in CHINA)

### Publications (international): (Published):

- 1- **M. Nisar**<sup>1\*</sup>, A. Ghafoor, M. R. Khan and M. Subhan (2009a). Genetic similarity of Pakistani pea (*Pisum sativum* L.) germplasm with world collection using cluster analysis and Jaccard's similarity index. *Che. Society Pak.* 31(1): 138-144
- 2- **M. Nisar**<sup>1\*</sup>, A. Ghafoor, M. R. Khan and Asmatullah (2009b) First proteomic assay of Pakistan *Pisum sativum* germplasm relation to geographic pattern. *Russian Journal of Genetics*, **45** (7): 807–812, (2009)
- 3- **M. Nisar**<sup>1\*</sup> and Ghafoor (2009c) Inheritance studies of *Pisum sativum* F<sub>1</sub>, F<sub>2</sub> and F<sub>3</sub> generation based morphological traits and selection of high yielding powdery mildew resistant lines. *Molecular Plant Breeding*, China 2009, Vol.7, No.2, 1-6
- 4- **M. Nisar**<sup>1\*</sup>, A. Ghafoor, H. Ahmad, M.R. Khan, A.S. Qureshi, H. Ali and M. Aslam. 2008. Evaluation of genetic diversity of pea germplasm through phenotypic trait analysis. *Pakistan Journal of Botany*, 40(5): 2081-2086.
- 5- **M. Nisar**, A. Ghafoor, M.R. Khan, H. Ahmad, A.S. Qureshi and H. Ali. 2007. Genetic diversity and geographic relationship among local and exotic chickpea germplasm. *Pakistan Journal of Botany*, 39(5): 1575-1581.
- 6- Ali, Z., A.S., Qureshi, W. Ali, H. Gulzar, **M. Nisar** and A. Ghafoor. 2007. Evaluation of genetic diversity present in pea (*Pisum sativum* L.) germplasm base don morphological traits, resistance to powdery mildew and molecular characteristics. *Pakistan Journal of Botany*, 39(7): 2739-2747.
- 7- **Nisar, M., A. Ghafoor**, M.R. Khan and A.S. Qureshi, 2006. Screening of *Pisum sativum* (L.) Germplasm against *Erysiphe pisi* Syd. in relation with vegetative traits and SDS-PAGE profile. *Acta Biologica Cracoviensia, Series Botanica*, Poland, 48(2): 33-37.
- 8- **Nisar M.**, et al., (2006). Key to identify the plants of Family Rosaceae and their indigenous uses in Swat. *Scientific Khyber* 19(2): 165-17.
- 9- **Nisar M.**, et al., (2005). Genetic diversity and Geographic relationship among Local and Exotic Chickpea (*Cicer arietinum* L.) germplasm based on Seed SDS Poly Acryl amide Gel Electrophoresis and morphological characteristics. 10<sup>th</sup> International Congress of SABRAO held in Tsukuba Japan, Poster presentation List. Poster No. B 13, Registration No 0095. [http://www.sabrao.com/poster\\_sessions.html](http://www.sabrao.com/poster_sessions.html)
- 10- Ghafoor A., A. Qaum and **M. Nisar** (2005). Peas (*Pisum sativum* L.) Catalogue Pakistan Agricultural Research Council (PARC)
- 11- Javed I, **Nisar M**<sup>†</sup> and Siraj-ud-Din, (2004). Herbal Recipes used by the local community of district Dir. Paper presented in International Symposium on Medicinal Plants: Linkages Beyond National Boundaries" held in NARC, Islamabad during 7-9 Sept., 2004, organized by WWF, PARC, Islamabad and **SOCJ-JAPAN**

### **Publications (international): (Accepted)**

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- 12- **M. Nisar**<sup>1\*</sup>, A. Ghafoor and M. R. Khan (2009-2010). Phenotypic Variation in the Agronomic and Morphological Traits of *Pisum sativum* L. germplasm obtained from different parts of the globe. Russian Journal of Genetics.

### **Publications (international): (Submitted)**

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- 13- **M. Nisar** and A. Ghafoor. Genetic diversity in Pakistani indigenous *Pisum sativum* germplasm detected by agronomic traits, biochemical and molecular markers. Genetic Resources and Crop evolution, Netherlands.
- 14- M.R. Khan, Saima Bibi and **M Nisar**<sup>2†</sup>. Morphological, Biochemical and Molecular based genetic diversity studies in cultivated Pakistani Black gram (*Vigna mungo* L. Hepper). Irish journal of Agriculture and food research.
- 15- **M. Nisar**<sup>1\*</sup>, A. Ghafoor<sup>2</sup>, M. R. Khan<sup>3</sup> and Saddrudine. Novel Protocol for Albumin and Globulin detection in *Pisum sativum* genotypes using Sodium Dodecyl Sulphate polyacrylamide gel electrophoresis (SDS-PAGE). Pakistan Journal of Botany.

### **Courses / Workshops/ Training:**

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#### **Workshops/Trainings/symposia participated**

1. Identification, Maintenance and Preservation of Microorganisms. Organized by Microbiology Research Laboratory, Deptt. Biological Sciences, Quaid-I-Azam University, Islamabad, Pakistan, held during May 10-12, 2004.
2. International symposium on "Medicinal Plants: Linkage beyond national boundaries". Organized by WWF, SOJ-Japan and PARC, Islamabad, held during September 7-9, 2004.
3. National Seminar on "Biotechnology for Development" Organized by Department of Biotechnology and Higher Education Commission of Pakistan Jun 10<sup>th</sup> 2008.

### **Computer Literacy:**

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Statistical Software (STATISTICA, MINITAB, NTYSIS, MAPMAKER, MVA and SSPS)

### **Interests:**

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Book reading, tours, Web surfing

### **Key Competencies:**

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- Ability to deal and solve the problems of students.
- Good communication skills with a good command on English language
- Good computer knowledge
- Ability to manage self and work team to meet scheduled work to a high standard to respond to a range of conflicting demands
- Ability to use my knowledge and skills sensibly in order to solve different problems
- Posses a willingness to learn things easily and not afraid for accepting challenging job.
- Understanding of the importance of teamwork, can work in a friendly manner considering myself as the part of the team

### **References:** (Will be furnished on request)