**RESUME**

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**Research Interests:**

1-Basic molecular biology

2- Molecular mechanism of fungal pathogenesis

3- Molecular mechanism of plant defenses

4- Industrial enzymes

**Papers in National & International Journals:**

1- **Motallebi M**., Rouch D.A., and C.M. Thomas. 1990. “A family of ATPases involved in active partitioning of diverse bacterial plasmids”. Molecular Microbiology 4: 1455-1463.

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**Books:**

Underestanding Genetic Engineering, (Co-translation with colleague), 1993.

Biochemistry of signal transduction and regulation, 2nd Edition (Co-translation with colleague), 2006.

Molecular Biology-Weaver, 5th Edition (Co-translation with colleagues), 2013.

**Courses Taught:**

**BSc.** Genetics

 Molecular Genetics

**MSc.** Advanced Genetic Engineering

 Genetics of Prokaryotes

 Transcription and Translation

 Molecular Genetics

**PhD**. Advanced Molecular Genetics

 Advanced Prokaryotic cell Biology

 Advanced Eukaryotic cell Biology

 Advanced Genetic Engineering

**Memberships:**

Iranian Biotechnology Society

Iranian Genetic Society

Iranian Biology Society

Editorial Board of Iranian Journal of Biotechnology

Editorial Board of Journal of Agricultural Biotechnology

Editorial Board of Iranian Journal of Genetics and Plant breeding

**Awards:**

The first rank among 1985 graduates of Department of Biology, Razi University, 1985

Distinguished Lecturer of Razi University, 1996

Distinguished Researcher of Razi University, 2000

Distinguished Researcher of Razi University, 2001

Distinguished Lecturer of NIGEB 2012

Distinguished Lecturer of NIGEB 2023

**PhD Thesis**

**Supervised Student Thesis:**

1. Hosseinzzadeh- Colagar, A. Aug./2005. " Isolation and Cloning of *pgip1* and *pgip2* Genes, Purification and Partial Characterization of PGIP Protein from Naz and Derakhshan Bean (*Phaseolus vulgaris*) Cultivars." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
2. Zahri S. March/2006. " Molecular study of cellobiohydrolase II (CBHII) from *Trichoderma Parceramosum* and endoglucanase I (EGI) in *T. reesi* PTCC5142". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

3- Harighi M.J. July/2006. " Purification, characterization, and gene cloning of 42 kDa chitinase (*chit*42) from *Trichoderma* *atroviride*(PTCC5220) and its expression in *Escherichia* *coli*". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

4- Shokouhifar F. Feb/2010. “Construction of Pathogen-Inducible Synthetic Plant Promoter”. Plant Biotechnology Dept., National Institute for Genetic Engineering and Biotechnology, Tehran, Iran.

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7- Matroodi S., May 2013. “Modification of *chit42* Gene Toward Increasing Chitinase Activity”. Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

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10-Hamzeh Sh., Sep./2014. “Removal of selectable marker gene with inducible Cre/loxP recombination system in transgenic plants”. Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

 11- Ziaei M. March, 2016. “Study of antifungal activity of *pgip*2 and *chit*42 in combination against *Sclerotinia* *sclerotiorum* in canola”. Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

 12- Moradyar M. March, 2016. “Study of disease resistance and inducibility of canola using *chit42* gene under control of synthetic pathogen inducible promoters”.Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

13- Zarrin panjeh N. July, 2016. “Co-transformation of fungal chitinase (*chit*42) and plant defensin (*Rs-AFP1*) genes to canola”.Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

14- Aghazadeh Gholaki R. Oct 2016."Co- transformation of *Brassica napus l*. by *chitinase* 42 and tlp genes towards improving resistance to *Sclerotinia sclerotiorum*". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

15- Eslahi N. June, 2020. “The effect of improved Trichoderma harzianum isolates on the molecular and biochemical pathways of bean plant (Phaseolus vulgaris L.) growth and defense”. Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

 **PhD Thesis Advisor:**

Fakhraei M.M. 2022. “Chitinase gene transfer to lisianthus (Eustoma grandiflorum Griseb.) for

resistance to fungal disease Fusarium solani” Department of Horticultural Sciences., Faculty of Agriculture, Tabriz, Iran.

 **Supervised Student Thesis:**

**MSc Thesis**

1- Andalib, A. March/1998. “Molecular, biochemical, and serological study for classification of *Yersinai enterocolitica* of Iran.” Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

2- Arefpour, M.A. Dec./1998. “Grouping of *Fusarium oxysporum* by pathogenicity test and polygalacturonase production”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

3- Saffar, B. Dec./1998. “Molecular study and plasmid-curing of *Yersinia enterocolitica* isolates in chicken”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

4- Emamjomeh, A.A. Jan./2000. “Determination of genetic distances by RAPD-PCR, evalution of drought tolerance criteria analysis of adaptation in chickpea”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

5- Harighi, M.J. Jan./2000. “Classification of *Fusarium oxysporum* isolates by zimogram grouping, overlaying and pectinolytic analysis.” Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

6- Hosseinzzadeh- Colagar, A. July/2000. “Study of pathogenicity, polygalacturonase activity and DNA polymorphism in *Ascochyta rabiei* isolates of Iran”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

7- Rezaei, A. Oct./2000. “Comparison of plasmid and study of pectolytic enzymes of *Yersinia enterocolitica* isolates from human and chicken”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

8- Rostamian, A. Nov./2000. “Study of Iranian isolates of *Fusarium oxysporium* by vegetative compatibility and RAPD”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

9- Barzegar, A. Mar./2001. “Molecular study of *Xanthomonas* sp. Isolates causal agent of canker in the leaves of sugarbeet”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran

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13- Khoroshi, A.A. Jan./2002. “Molecular study of *Fusarium oxysporum* isolates by protein pattern and DNA polymorphism.” Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

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15- Alani, B. Nov./2002. “Study of DNA polymorphism and purification of PG in *Fusarium oxysporum.”* Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

16- Seyed Asli N. Aug./ 2003. “Study of chitinolytic activity and partial amplification of chitinase genes in *Trichoderma* isolates ”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

17- Bahramsari N. Sep./2003. “Study of glucanase activity and partial amplification of chitinase genes in *Trichoderma* isolates”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

18- Onsory H., Sep./2003. “Study of cellulase enzymes and detection of their coding genes by PCR method in *Aspergillus* sp.”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

19- Habibollahi H., Oct./2003. “Study of PGIP-PG interaction and detection of Soybean *pgip* gene”. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

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33- Fallahi F. July/2006. "Inhibitory activity of PGIP on polygalacturonase of S. *sclerotiorum* , isolation and cloning of *pgip*1 and *pgip*2 genes from Juls and Daneshjoo bean cultivars. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

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35- Yazdanpanah M. Feb./2007. "Amplification, Cloning, Expression & Characterization of chit36 Gene from*T. atroviride(PTCC5220)*". Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.

36- Raoufzadeh Sara. Feb./2007. "Amplification and cloning of DNA and cDNA of beta-glucosidase (*bgl2*) gene from *Trichoderma* *harzianum* (T7). Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.

37- Raoufzadeh Somayeh. Feb./2007. "Amplification and cloning of DNA and cDNA of beta-1,3 glucanase (*bgn*13.1) gene from *Trichoderma* *virens* (10). Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.

38- Akhgari A. Sep./2007. “Cloning and comparison of nucleotide sequences of *pgip1*and *pgip2* (polygalacturonase - inhibiting protein) genes in three *Phaseolus vulgaris* cultivars and transformation of Canola (*Brassica napus L*) by *pgip2* gene and confirmation of the gene expression in transgenic plant by molecular techniques”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

39- Kheiri H.R. March/2008. “Transformation of *bgn*13.1 gene to canola (*Brassica napus* L.) and partial characterization of transgenic plants by molecular techniques”. Dept of Agricultural Biotechnology, Agricultural Faculty, Bu Ali Sina Univ, Hamadan, Iran.

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41- Lotfi K. Sept./2008. “Transformation of *chit*42 gene to canola (*Brassica napus* L.) and partial characterization of transgenic plants by molecular techniques”. Dept of Agricultural Biotechnology, Agricultural Faculty, Bu Ali Sina Univ, Hamadan, Iran.

42- Kalantari M. Nov./2008. “Transformation of *pgip*2 gene from *Phaseolus vulgaris* cv Emerson to sugar beet (Line 9597-P26) and partial characterization of transgenic plants using molecular approaches”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

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44- Rezanejad H. Dec/2008. “Transformation of chitinase 42 gene (cDNA) to canola and partial characterization of transgenic plants”. Biology Dept., Azarbayjan Univ. of Tarbyatmoallem. Tabriz, Iran.

45- Shirazi F.T., Feb/2009. “Transformation of *pgip*1 gene from *Phaseolus vulgaris* cv Daneshjoo to sugar beet (Line 9597-P26) and partial characterization of transgenic plants using molecular approaches”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

46- Etebari Mar/2010. “Isolation and cloning of genomic and cDNA of plant defensin gene.” Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

47- Ghafarian Aug/2010. “Isolation and cloning of *tlp* gene and its expression in prokaryotic system”. Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

48- Soroor F., Aug/2010. “Transformation of canola by *bgn*13.1 (cDNA) and partial characterization of transgenic plants”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

49- Moradyar M., Sep./2010. “Transformation of canola by *chit*33 (genomic DNA) and partial characterization of transgenic plants”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

50- Solgi T., Sep./2010. “Transformation of canola by *chit*33 (cDNA) and partial characterization of transgenic plants”. Biotechnology Dept., Islamic Azad University. Tehran, Iran.

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