



RESUME

Name: Mostafa Motallebi

Present position: Professor

PhD in Molecular Genetics (UK)

Address: National Institute for Genetic Engineering and Biotechnology,(NIGEB), Tehran, Iran.

Tel: (98) 21- 44580363 Fax:(98) 21- 44580363

E-mail: motallebi@nigeb.ac.ir

Research Interests:

- ۱- Basic molecular biology
- ۲- Molecular mechanism of fungal pathogenesis
- ۳- Molecular mechanism of plant defenses
- ۴- Industrial enzymes

Papers in National & International Journals:

- ۱- **Motallebi M.**, Rouch D.A., and C.M. Thomas. ۱۹۹۰. "A family of ATPases involved in active partitioning of diverse bacterial plasmids". *Molecular Microbiology* ۴: ۱۴۵۵-۱۴۶۳.
- ۲- **Motallebi M.**, D. Balzer ,E. Lanka ,G. Jagura-Burdzy , and C.M. Thomas . ۱۹۹۲. "Conjugative transfer functions of broad-host-range plasmid RK۲ are coregulated with vegetative replication". *Molecular Microbiology* ۶: ۹۰۷-۹۲۰.
- ۳- Williams D.R., **M. Motallebi**, and C.M. Thomas. ۱۹۹۳. "Multifunctional repressor KorB can block transcription by preventing isomerization of RNA polymerase-promoter". *Nucleic Acids Research* ۲۱: ۱۱۴۱-۱۱۴۸.

- ٤- Zamani M.R., **M. Motallebi**, and A. Hosseinzadeh Colagar. ١٩٩٨. "Virulence and polymorphic DNA relationships of *Ascochyta rabiei* to geographical regions". Iranian Journal of Biology. ٧:١-١٧.
- ٥- **Motallebi M**, M.R. Zamani, and A. Andalib. ١٩٩٩. "Plasmid-associated proteins correlate with pathogenicity of *Yersinia enterocolitica* isolates of Iran". Iranian Journal of Science and Technology, ٢٣: ١٠١- ١٠٨.
- ٦- **Motallebi M**, M.R. Zamani, and A. Andalib. ١٩٩٩. "Correlation of virulence plasmid and serological tests of human *Yersinia enterocolitica* isolates". Scientific Journal of Hamadan University of Medical Sciences & Health Services, ٣: ١١-١٨.
- ٧- Zamani M.R., **M. Motallebi**, and M.A. Arefpour. ٢٠٠٠. "Comparative study of polygalacturonase activity from different Iranian isolates of *Fusarium oxysporum*". Iranian Journal of Agricultural Science, ٣١: ٢٩٣-٣٠٢.
- ٨- **Motallebi M**, M.R. Zamani, and B. Saffar. ٢٠٠٠. "Serological, calcium, and temperature relatedness with virulence plasmid of *Yersinia enterocolitica* isolates from chicken of Iran". Eastern Mediterranean Health Journal. ٦(٢٨٣): ١-٧.
- ٩- **Motallebi M**, M.R. Zamani, and B. Saffar. ٢٠٠١. "Identification of specific proteins associated with virulence plasmid of *Yersinia enterocolitica* isolated from chicken in Iran". Iranian Journal of Science and Technology, ٢٥ (١): ١-٧.
- ١٠- Zamani M.R., **M. Motallebi**, and M.J. Harighi. ٢٠٠١ "Pectic enzyme patterns of *Fusarium oxysporum* isolates from chickpea in Iran. Journal of Sciences, Islamic Republic of Iran. ١٢(١):١٧-٢١.
- ١١- Farshadfar E., M.R. Zamani, **M. Motallebi** and A. Imamjomeh. ٢٠٠١. "Selection for drought resistance in chickpea lines". Iranian Journal of Agricultural Science. ٣٢(١): ٦٥-٧٧.
- ١٢- **Motallebi M.**, Zamani M.R., Jazayeri O.,and Harighi M.J. ٢٠٠٢. " Use of RAPD, enzyme activity staining, and colony size to differentiate phytopathogenic *Fusarium oxysporum* isolates from Iran". Brazilian Journal of Microbiology, ٣٣:١-٥.
- ١٣- **Motallebi M.**, M.R. Zamani, and A. Hosseinzadeh Colagar. ٢٠٠٣. "Correlation of polygalacturonase activity and pathogenicity of Iranian isolates of *Ascochyta rabiei*". Journal of science and technology of Agriculture and Natural Resources, ٦(٤): ١٥٩-١٦٩.

- ۱۴- Alani B., **M. Motallebi.**, and M.R. Zamani. ۲۰۰۴. "Purification and partial characterization of polygalacturonase from highly virulent (HV) isolate of *Fusarium oxysporum* (F۲۳)." Iranian Journal of Biology. ۱۶(۴): ۱-۱۱.
- ۱۵- Zamani MR., **M. Motallebi.**, and A. Rostamian. ۲۰۰۴. "Characterization of Iranian isolates of *Fusarium oxysporum* on the basis of RAPD analysis, virulence, and vegetative compatibility". Journal of Phytopathology. ۱۵۲ (۸-۹): ۴۹۹-۵۰۳.
- ۱۶- Alani B., M.R. Zamani , and **M. Motallebi.** ۲۰۰۴. " Study of polygalacturonase from weakly virulent (WV) isolate of *Fusarium oxysporum* (F۵۸)". Pajouhesh-va-Sazandegi. ۶۳: ۹۶-۱۰۳.
- ۱۷- Seyed Asli N., M.R. Zamani , **M. Motallebi.** and M.J. Harighi. ۲۰۰۴. "Study of chitinolytic enzyme production in Trichoderma isolates". Iranian Journal of Biology. ۱۷(۳):۲۲۷-۲۴۶.
- ۱۸- Hosseinzadeh Colagar A., M.R. Zamani, and **M. Motallebi.** ۲۰۰۴. "PGIP-PG interaction, cloning and partial characterization of pgip gene from *Phaseolus vulgaris* cv. Derakhshan." Iranian Journal of Biology. ۱۷(۲); ۱۲۶-۱۳۷.
- ۱۹- Onori H., **Motallebi M.**, M.R. Zamani, and S. Zahri. ۲۰۰۴. "Optimization of enzyme production and amplification of β -Glucosidase gene from *Aspergillus* sp." Iranian J. of Biology. ۱۷(۱): ۸۹-۱۰۰.
- ۲۰ - Hosseinzadeh Colagar A., **M. Motallebi.** and M.R. Zamani. ۲۰۰۴. "Isolation, Cloning, and Partial Characterization of the Gene Encoding the Polygalacturonase Inhibiting Protein of *Phaseolus vulgaris* cv. Naz". Pakistan Journal of Biotechnology. ۱(۲): ۱-۹.
- ۲۱- Alani B., Zamani M.R., **Motallebi M.**, Zarghami N., Jabbarzadeh S., Rahbani M., and Mashayekhi M.A. ۲۰۰۴. "Using random amplified polymorphism DNA (RAPD) technique for DNA polymorphism in isolated strain *Fusarium oxysporum*". Medical Journal of Tabriz University of Medical Sciences (MJTUMS). ۶۳: ۶۵-۷۰.
- ۲۲- Zarghami N., Alani B., **Motallebi M.**, Zamani M.R., Khosrobeigi A., and Rahbani M. ۲۰۰۴. "Purification of polygalacturonase enzyme from strain F۵۸ *Fusarium oxysporum*". Medical Journal of Tabriz University of Medical Sciences (MJTUMS). ۶۳: ۴۰-۴۶.
- ۲۳- Onori H., M.R. Zamani, **M. Motallebi.** and N. Zarghami. ۲۰۰۵. "Identification of over producer strain of endo- β -۱,۴-glucanase in *Aspergillus* species: characterization of crude carboxymethyl cellulose". African Journal of Biotechnology. ۴(۱): ۲۶-۳۰.

- ۲۴- Ghoujehi F., **M. Motallebi**, and M.R. Zamani. ۲۰۰۵. "Enzyme production and amplification of cellobiohydrolase (CBH) gene from *Trichoderma* sp.". Iranian Journal of Biology. ۱۸(۱): ۱۵-۲۳.
- ۲۵- Zahri S., Zamani M.R., **Motallebi M.**, and Babaei A.. ۲۰۰۵. " Cloning, sequencing and characterization of gene and cDNA of β -۱,۴ endoglucanase from *Trichoderma reesei*". Iranian Journal of Biology. ۱۸(۲): ۱۲۹-۱۴۰.
- ۲۶- Bahramsari N., M.R. Zamani and **M. Motallebi.** ۲۰۰۵. " β -۱,۳-glucanase production in *Trichoderma* isolates". Iranian Journal of Biology. ۱۸(۳): ۲۶۱-۲۷۱.
- ۲۷- Zahri S., Zamani M.R., **Motallebi M.**, and Sadeghi M. ۲۰۰۵. "Cloning and characterization of *cbhII* gene from *Trichoderma parceramosum* and its expression in *Pichia pastoris*". Iranian Journal of Biotechnology. ۳(۴): ۲۰۴-۲۱۵.
- ۲۸- Harighi M.J., **Motallebi M.**, and Zamani M.R. ۲۰۰۶. "Purification of chitinase ϵ ۲ from *Trichoderma atroviride* PTCC۵۲۲۰". Iranian Journal of Biology. ۱۹(۲): ۲۰۳- ۲۱۴.
- ۲۹- Harighi M.J., **Motallebi M.** , and Zamani M.R. ۲۰۰۶. "Antifungal activity of heterologous expressed chitinase ϵ ۲ (Chit ϵ ۲) from *Trichoderma atroviride* PTCC۵۲۲۰". Iranian Journal of Biotechnology. ۴(۲): ۹۵-۱۰۳.
- ۳۰- Harighi M.J., Zamani M.R., and **Motallebi M.** ۲۰۰۷. " Evaluation of antifungal activity of purified chitinase ϵ ۲ from *Trichoderma atroviride* PTCC۵۲۲۰." Biotechnology, ۶(۱): ۲۸-۳۳.
- ۳۱- Fallahi H., **M. Motallebi.**, and M.R. Zamani. ۲۰۰۷. "Purification and partial characterization of polygalacturonase from virulent isolate of *Ascochyta rabiei* (IK۰۶), causal agent of *Ascochyta* blight in checkpea". Journal of Science and Technology of Agriculture and Natural Resources. ۱۰(۴B): ۳۸۱- ۳۹۲.
- ۳۲- Karimzadeh F., **M. Motallebi**, M.R. Zamani and Sh. Hamzeh. ۲۰۰۷. "Determination of culture condition for polygalacturonase production by *Rhizoctonia solani* AG۲-۲, causal agent of root rot in sugar beet." Plant Pathology Journal. ۶(۲): ۱۵۳-۱۵۸.

- ۳۳- Badri M., M.R. Zamani and **M. Motallebi**. ۲۰۰۷. "Effect of plant growth regulators on *in vitro* biological control of *Fusarium oxysporum* by *Trichoderma harzianum* (T λ)". Pakistan Journal of Biological Sciences. ۱۰(۱۹): ۲۸۵۰-۲۸۵۵.
- ۳۴- Hosseinzadeh Colagar A., M.R. Zamani, and **M. Motallebi**. ۲۰۰۶. "Study of polygalacturonase activity and genetic diversity of ۴۲ Iranian isolates of *Ascochyta rabiei*." Journal of Science, Teacher Training University. ۶(۱.۲): ۶۷۵-۶۸۴.
- ۳۵- Raoufzadeh Sarah, **Motallebi M.**, and Zamani M.R. ۲۰۰۷. "Cloning and characterization of beta-۱.۴ glucosidase ۲ (*bgl۲*) gene from a high producer cellulolytic enzyme *Trichoderma harzianum* (T ν).". Word Applied Sciences Journal. ۲(۴): ۳۱۵-۳۲۲.
- ۳۶- Hosseinzadeh Colagar A., Mostafaie A., **M. Motallebi.**, and M.R. Zamani. ۲۰۰۷. "Bean polygalacturonase-inhibiting proteins inhibits polygalacturonase from *Fusarium oxysporum* and *Ascochyta rabiei* of chickpea". Journal of Science and Technology of Agriculture and Natural Resources. ۴۱(B): ۳۴۵-۳۵۵.
- ۳۷- **Motallebi M.**, Afshari Azad H., and Zamani M.R. ۲۰۰۸. "Polygalacturonase production by *Sclerotinia sclerotiorum*, causal agent of canola stem rot: parameter optimization using Taguchi approach." World Applied Sciences Journal. ۳(۱): ۹۶-۱۰۱.
- ۳۸- Raoufzadeh S., **Motallebi M.**, and Zamani M.R. ۲۰۰۸. "Isolation, cloning, and partial characterization of *bgn۱۳,۱* gene of *Trichoderma virens*-۱۰ a biocontrol agent." American-Eurasian J. Agric. & Environ. Sci., ۳(۱): ۴۲-۴۹.
- ۳۹- Vatandoost J., Zamani M.R., **Motallebi M.**, and Sharifi M. ۲۰۰۸. "The status of the lesser mouse-eared bat (*Myotis blythii*) populations occurring in northern mesopotamian plain and mid-zagros mountains in western of iran based on mitochondrial sequences". Iranian Journal of Biology. ۲۰(۴): ۴۰۶-۴۱۷.
- ۴۰- Mohammadzadeh R., **Motallebi M.**, Zamani M.R., and Bidmeshki A. ۲۰۰۸. "Identification, cloning and structure analysis of β -۱.۳ glucanase (*bgn۱*) gene from *Trichoderma virens*". Iranian Journal of Biology. ۲۱(۳): ۴۸۳-۴۹۲.
- ۴۱- Matroudi S., Zamani M.R. and **Motallebi M.** ۲۰۰۸. "Molecular cloning of chitinase ۳۳ (*chit۳۳*) gene from *Trichoderma atroviride*." Brazilian Journal of Microbiology. ۳۹:۴۳۳-۴۳۷.

- ۴۲- Ghoujehi F., M.R. Zamani, **M. Motallebi**, and S. Zahri. ۲۰۰۹. "Optimized conditions for production of β -glucosidase enzyme in *Trichoderma reesei* (PTCC۵۱۴۲)". Pajouhesh-va-Sazandegi. ۷۸(۱): ۱۴۱-۱۴۸.
- ۴۳-- Deilami Khiabani, Zamani M.R. and **Motallebi M.** ۲۰۰۸. "The comparison of inhibitory activity of Bean (*Phaseolus vulgaris*) PGIP on polygalacturonase enzyme from ۲۰ different phytopathogenic fungi". The Quarterly Journal of Biological Science. ۳: ۱-۸.
- ۴۴- Rezanezhad H., Zamani M.R., **Motallebi M.**, and Harighi M.J. ۲۰۰۹. "Cloning of *chit1* gene from *Trichoderma atroviride* PTCC۵۲۲۰ and its structure analysis". Iranian Journal of Biology. ۲۲(۱): ۵۳-۶۲.
- ۴۵- Jalali A., **Motallebi M.**, and Zamani M.R. ۲۰۰۹. "Study of biocontrol activity of *Trichoderma atroviride* PTCC۵۲۲۰ against *Rhizoctonia solani* AG۲, the causal agent of root rot in sugar beet". Iranian Journal of Biology. ۲۲(۳): ۴۵۲-۴۶۱.
- ۴۶- Matroudi S., Zamani M.R. and **Motallebi M.** ۲۰۰۹. "Antagonistic effects of three species of *Trichoderma* on *Sclerotinia sclerotiorum* causal agent of canola stem rot." Egyptian Journal of Biology. ۱۱: ۳۷-۴۴.
- ۴۷- Rajabkhani Z., Zamani M.R., and **Motallebi M.** . ۲۰۱۰. "Optimized conditions for production of β -۱,۴ endoglucanase enzyme in *Aspergillus niger* (R۴) and cloning of *eglB* gene." Iranian Journal of Biology. ۲۲: ۶۸۲-۶۹۰.
- ۴۸- Shokouhifar F., Zamani M.R., **Motallebi M.**, Mosavi A. and Malbobi M. A. ۲۰۱۰. "Construction and functional analysis of a pathogen inducible synthetic promoter in response to some biotic and abiotic stresses in canola". Iran. J. Plant Path. ۴۵(۳): ۱۷۳-۱۸۷.
- ۴۹- Esfahani K., **Motallebi M.**, Zamani M.R., Hashemi Sohi H., and Jourabchi E. ۲۰۱۰. "Transformation of potato (*Solanum tuberosum* cv. Savalan) by chitinase and β -۱, ۳ glucanase genes of mycoparasitic fungi towards improving resistance to *Rhizoctonia solani* AG-۳." Iranian Journal of Biotechnology. ۸(۲): ۷۳-۸۱.
- ۵۰- Shokouhifar F., Zamani M.R., **Motallebi M.** ۲۰۱۱. " Expression pattern of the synthetic pathogen-inducible promoter (SynP-FF) in the transgenic canola in response to *Sclerotinia sclerotiorum*". Iranian Journal of Biotechnology. ۹(۱): ۱-۱۰.

- ۵۱- Moghaddassi Jahromi Z., Zamani M.R., **Motallebi M.**, Akhgari A. ۲۰۱۱. "Antibody Production against the heterologous expressed PGIP^۱ to confirm the transgenic canola plants". Iranian Journal of Biology. ۲۴(۱): ۲۵-۳۴.
- ۵۲- Abedi A., **Motallebi M.**, Zamani M.R. and Piri Kh. ۲۰۱۱. "Transformation of canola (R line Hyola ۳۰۸) by *pgip*^۱ gene from bean cv. Daneshjoo toward improving resistance to *Sclerotinia sclerotiorum*". Iranian Journal of Agricultural Sciences. ۴۲(۱): ۵۲-۶۲.
- ۵۳- Kalantari M., **Motallebi M.** and Zamani M.R.. ۲۰۱۱. "Bean polygalacturonase-inhibiting protein expressed in transgenic sugar beet inhibits polygalacturonase from *Rhizoctonia solani*". Biosciences, Biotechnology Research Asia. ۸(۱): ۱۹-۲۸.
- ۵۴- Shokouhifar F., Zamani M.R., **Motallebi M.**, Mosavi A. and Malbobi M. A. ۲۰۱۱. "Construction and functional analysis of pathogen-inducible synthetic promoters in *Brassica napus* L.". Biologia Plantarum. ۵۵(۴): ۶۸۹-۶۹۵.
- ۵۵- Esfahani K., Zamani M.R., and **Motallebi M.** ۲۰۱۱. " Review of different approaches to enhance resistance against fungal pathogens and transformation of the genes encoding hydrolytic enzymes from various sources to develop toleration of fungal diseases in transgenic plants". Journal of Biosafety. ۲: ۱۰۵-۱۳۰.
- ۵۶- Zamani A., **Motallebi M.**, Jonoubi P., Ghafarian-Nia N., and Zamani M.R. ۲۰۱۲. "Heterologous expression of the *Secale cereal* thaumatin-like protein in transgenic canola plants enhances resistance to stem rot disease". Iranian Journal of Biotechnology. ۱۰(۲):۸۷-۹۵.
- ۵۷- Akhgari AB., **Motallebi M.**, and Zamani M.R. ۲۰۱۲. "Bean polygalacturonase-inhibiting protein expressed in transgenic *Brassica napus* inhibits polygalacturonase from its fungal pathogen, *Rhizoctonia solani*". Plant Protection Science. ۴۸(۱): ۱-۹.
- ۵۸- Golejani Moghaddaam R., **Motallebi M.**, Zamani M. R. and Rezanejad H. ۲۰۱۲. "Optimization of regeneration and transformation of canola, Hyola ۳۰۸ and RGS۰۰۳ lines". Journal of Plant Biology. ۴۱(۱):۴۷-۶۰.
- ۵۹- Esfahani K., **Motallebi M.** and Zamani M.R. ۲۰۱۲. "Construction of plant expression vectors harboring chitinase (*chit*^۱) and glucanase (*bgn*^۱,^۲) genes from *Trichoderma* species". Iranian Journal of Biology. ۲۴(۶): ۸۸۰-۸۹۴.

- ۶۰- Mohammadzadeh R., Zamani M.R., **Motallebi M.**, Norouzi P., Jourabchi E., Benedetti M. and De Lorenzo G. ۲۰۱۲. “*Agrobacterium tumefaciens*-mediated introduction of polygalacturonase inhibiting protein γ gene from *Phaseolus vulgaris* (PvPGIP γ) into sugar beet (*Beta vulgaris*L.)”. Australian Journal of Crop Science. ۶(۸); ۱۲۹۰-۱۲۹۷.
- ۶۱- Matroodi S., Zamani M.R., **Motallebi M.**, Moradyar M. ۲۰۱۳. “Designing a new chitinase with more chitin binding and antifungal activity”. World Journal of Microbiology and Biotechnology. ۱-۱۲. DOI ۱۰.۱۰۰۷۷/S۱۱۲۷۴-۰۱۳-۱۳۱۸-۰.
- ۶۲- Roohi L., Zamani M.R. and **Motallebi M.** ۲۰۱۳. Transgenic canola plants harboring beta ۱,۴ glucanase (*bgnI*) gene from *Trichoderma virens* inhibit mycelial growth of *Sclerotinia sclerotiorum*.” Iranian Journal of Biology. ۲۶(۱):۲۸-۴۰.
- ۶۳- Matroodi S., **Motallebi M.**, Zamani M.R., Mousavi A., Davoodi D., Moghaddassi-Jahromi Z. ۲۰۱۳. “Sugarcane (NCor۱۰) transient transformation using *uidA* reporter gene”. Iranian Journal of Biotechnology, ۱۱(۲): ۸۹-۹۶.
- ۶۴- Matroodi S., Zamani M.R., Haghbeen K., **Motallebi M.** and Aminzadeh S. ۲۰۱۳. “Physiochemical study of a novel chimeric chitinase with enhanced binding ability”. ACTA Bioch Bioph Sin (ABBS). ۱-۱۲. Published online, DOI:۱۰,۱۰۹۳/abbs/gmt۰۸۹.
- ۶۵- Akbarzadeh A., Ranaei Siadat O., Zamani M.R., **Motallebi M.**, and Barshan Tashnizi. ۲۰۱۳. “Comparison of biochemical properties recombinant endoglucanaseII of *Trichoderma reesei* in methylotrophic yeast, *Pichia pastoris* and *Hansenula polymorpha*”. Progress in Biological Sciences. ۳(۱):۱۰۸-۱۱۷.
- ۶۶- Kowsari M., Zamani M.R., **Motallebi M.**, and Jourabchi E. ۲۰۱۳. “Transformation of *Trichoderma harzianum* T۸ with *gfp* gene to facilitate its monitoring in soil and use of SEM to study interaction of *T. harzianum* with *Rhizoctonia solani* sclerotia”. Iran. J. Plant Path. ۴۹(۴)-۴۲۵-۴۳۷.
- ۶۷- Kowsari M., **Motallebi M.**, and Zamani M.R.. ۲۰۱۳. “Protein engineering of chit ϵ towards improvement of chitinase and antifungal activities”. Current Microbiology. Published online, DOI: ۱۰,۱۰۰۷/S۰۰۲۸۴-۰۱۳-۰۴۹۴-۳.

- ۷۸- Akbarzadeh A., Rannaei Siadat O., **Motallebi M.**, Zamani M.R., Tashnizi M.B. and Moshtaghi S. ۲۰۱۳. "Characterization and high level of acidic endoglucanase in *Pichia pastoris*". Applied Biochemistry and Biotechnology, Published online, DOI: 10.1007/s12010-013-0672-6.
- ۷۹- Kheiri H.R., **Motallebi M.**, Zamani M.R. and Deljo A. ۲۰۱۴. "Beta glucanase (Bgn^{13,1}) expressed in transgenic *Brassica napus* confers antifungal activity against *Sclerotinia sclerotiorum*". Journal of Crop Protection. ۳(۱): ۳۱-۴۲.
- ۷۰- Shokouhifar F, **Motallebi M.** and Zamani M.R., ۲۰۱۴. "Construction of pGCGi, an expression vector varies intron containing GUS and analysis using micro-bombardment and agroinjection". Iranian Journal of Plant Biology. ۱۹ (۱): ۹۷-۱۱۰.
- ۷۱- Kowsari M., Zamani M.R., and **Motallebi M.** ۲۰۱۴. "Enhancement of *Trichoderma harzianum* activity against *Sclerotinia sclerotium* by overexpression of Chit³". Iran J. Biotech. Published online, DOI: 10.5812/ijb.13879.
- ۷۲- Mohammadzadeh R., **Motallebi M.**, and Zamani M.R. ۲۰۱۴. "Construction of plant expression cassette for production of chimeric protein containing PGIP¹ and PGIP²". Journal of Cellular and Molecular Researches. ۲۶(۴): ۵۵۰-۵۶۱.
- ۷۳- Kowsari M., **Motallebi M.** and Zamani M.R., ۲۰۱۴. "Construction of new GFP-tagged fusants for *Trichoderma harzianum* with enhanced biocontrol activity". Journal of Plant Protection research, ۵۴(۲): ۱۲۲-۱۳۱.
- ۷۴- Solgi T., Moradyar M., Zamani M.R., **Motallebi M.**, ۲۰۱۵. "Transformation of Canola by *chit3* gene towards improving resistance to *Sclerotinia sclerotiorum*". Plant Protection Sciences. ۵۱(۱): ۱-۵.
- ۷۵- Yazdanpanah-Samani M., Zamani M.R., **Motallebi M.** and Moghaddassi-Jahromi Z. ۲۰۱۵. "Heterologous expression of Chit³ from *Trichoderma atroviride* in prokaryotic system". Journal of Cellular and Molecular Researches. ۲۸(۳): ۴۴۸-۴۵۷.
- ۷۶- Golijani Moghadam R., Yazdanpanah Samani M., Zamani M.R., and **Motallebi M.** ۲۰۱۵. "Heterologous expression of Chit³ from *Trichoderma atroviride* in canola reduces development of lesion caused by *Sclerotinia sclerotiorum*". Iranian Journal of Science and Technology. ۳۹A۳: ۳۳۱-۳۳۹.

- ۷۷- Mohammadzadeh, R, **Motallebi M.**, Zamani M.R., Moghaddassi-Jahromi Z., Norouzi P., Benedetti M., and DeLorenzo G. ۲۰۱۵. "Generation of transgenic sugar beet (*Beta vulgaris* L.) over-expressing the polygalacturonase inhibiting protein ۱ of *Phaseolus vulgaris* (PvPGIP۱) through *Agrobacterium*-mediated transformation". Turkish Journal of Agriculture and Forestry. ۳۹(۴): ۴۲۹-۴۳۸.
- ۷۸- Matroudi S., Zamani M.R., and **Motallebi M.** ۲۰۱۵. "Optimization of chimeric chitinase ϵ ۲ prokaryotic expression and comparison of its chitinase activity with Cht ϵ ۲". Journal of Cellular and Molecular Researches, ۲۸(۲): ۲۷۹-۲۸۹.
- ۸۰- Zebardast F., Zamani M.R., **Motallebi M.**, and Moghaddassi-Jahromi Z. ۲۰۱۵. "Antifungal activity of recombinant rice LTP۲ on some phytopathogenic fungi". Progress In Biological Sciences. ۵(۱): ۱۳۳-۱۴۲.
- ۸۱- Javaheri Z., Aminzadeh S., Zamani M.R., and **Motallebi M.** ۲۰۱۶. "Optimization of culture condition of enterobacter ZS extra cellular cyanide degrading enzyme with Response Surface Methodology". Journal of Cellular and Molecular Researches. ۲۹(۳): ۲۶۵-۲۷۲.
- ۸۲- Etebari M., **Motallebi M.**, Zamani M.R. Moghaddassi Jahromi Z, ۲۰۱۶. "Structural Analysis of *Def* Gene from *Trigonella foenum-graecum* by Characterization of Its Genomic and cDNA ". Agricultural Biotechnology journal.
- ۸۳- Zarin panjeh N, **Motallebi M.** Zamani M.R. and Ziaei M, Jourabchi E., ۲۰۱۶. "Overexpression of radish (*Raphanus sativus*) defensin gene (*Rs-AFP* ۱) in canola (*Brassica napus*) improves resistance to Sclerotinia stem rot disease". Genetic Novin. Accepted.
- ۸۴- Aghazadeh R., Zamani M.R., **Motallebi M.**, and Moradyar M. ۲۰۱۶. "Agrobacterium-mediated Transformation of the *Oryza sativa* Thaumatin-like protein to Canola (R line Hyola۳۰۸) for Enhancing Resistance to *Sclerotinia sclerotiorum*". Iranian Journal of Biotechnology. Accepted.
- ۸۵- Zandvakili N., Zamani M.R., **Motallebi M.**, and Moghaddassi Jahromi Z. ۲۰۱۶. "Cloning, Overexpression and *In Vitro* Antifungal Activity of *Zea Mays* PR۱۰ Protein". Iranian Journal of Biotechnology. Accepted.
- ۸۶- Ziaei M., **Motallebi M.**, Zamani M.R. and Zarinpanjeh N. ۲۰۱۶. "Co-expression of chimeric chitinase and polygalacturonase inhibiting protein in transgenic canola confers enhanced resistance to *Sclerotinia sclerotiorum*". Biotechnology Letter. DOI:۱۰.۱۰۰۷/s۱۰۵۲۹-۰۱۶-۲۰۵۸-۷.

- ۸۷- Hamzeh Sh., **Motallebi M.**, and Zamani M.R. ۲۰۱۶. “Efficient seed-specifically regulated auto-excision of marker gene *nptII* with inducible expression of interest gene in transgenic *Nicotiana tabaccum*”. Turkish Journal of Biology. ۴۰: ۱-۱۱.
- ۸۸- Ziaei M., **Motallebi M.** Zamani M.R., Zarin panjeh N., and Moghaddassi Jahromi Z. ۲۰۱۵. “A comparative study of transgenic canola (*Brassica napus* L.) harboring either chimeric or native Chit ϵ genes against phytopathogenic fungi”. Journal of Plant Biochemistry and Biotechnology. Accepted.
- ۸۹- Hamzeh. Sh., **Motallebi M.** Zamani M.R., and Moghaddassi Jahromi Z. ۲۰۱۵. “Selectable marker gene removal and expression of transgene by inducible promoter containing FFDD cis-acting elements in transgenic plants”. Iranian Journal of Biotechnology. ۱۳(۳): ۱- ۹. DOI:۱۰,۱۵۱۷۱/ijb.۱۰۹۹.
- ۹۰- Moradyar M., Zamani M.R., **Motallebi M.**, and Aghazadeh R. ۲۰۱۶. “Transformation of canola with a chimeric chitinase gene under control of the SP-FF synthetic pathogen-inducible promoter”Journal of Cellular and Molecular Researches. ۲۸(۴): ۵۹۹-۶۱۰.
- ۹۱- Aghazadeh R., Zamani M.R., **Motallebi M.**, Moradyar M, Moghaddassi Jahromi Z, ۲۰۱۶. “Co-transformation of canola by chimeric chitinase and *tlp* genes towards improving resistance to *Sclerotinia sclerotiorum*”. World Journal of Microbiology and Biotechnology. ۳۲:۱۴۴, DOI:۱۰,۱۰۰۷/s۱۱۲۷۴-۰۱۶-۲۱۰۴-۶.
- ۹۲- Ataei A., Zamani M.R., **Motallebi M.**, Haghbeen K. Ziaei M. and Jourabchi E.. ۲۰۱۶. “Increased antifungal activity of Chit ϵ from *Trichoderma atroviride* by addition of a chitin binding domain”. Tropical Plant Pathology. (۱۰۳): DOI: ۱۰,۱۰۰۷/s۴۰۸۵۸-۰۱۶-۰۱۰۳-۷.
- ۹۳- Zarin panjeh N., **Motallebi M.** Zamani M.R. and Ziaei M. ۲۰۱۶. “Enhanced resistance to *Sclerotinia sclerotiorum* in *Brassica napus* by co expression of defencin and chimeric chitinase genes.” Journal of Applied Genetics. ۵۷(۴): ۴۱۷-۴۲۵.
- ۹۴- Moradyar M, **Motallebi M.**, Zamani M.R. and Aghazadeh R. ۲۰۱۶. “Pathogen-induced expression of chimeric chitinase gene containg synthetic promoter confer antifungal resistance in transgenic canola”. *In vitro Cellular & Developmental Biology- Plant* ۵۲(۲): ۱۱۹-۱۲۹.

Full Papers in National & International Conferences:

- ۱-**Motallebi M.**, M.R. Zamani, and A. Barzegar. ۲۰۰۱. “Analysis of DNA polymorphism and protein profile in different isolates of *Xanthomonas* sp. In Sugar beet”. The Second National Biotechnology Congress, Karaj. ۱۴۷۸-۱۴۸۰.
- ۲-**Motallebi M.**, M.R. Zamani, A. Khoroshi, and M.J. Harighi. ۲۰۰۱. “Classification of *Fusarium oxysporum* isolates based on protein pattern and overlaying”. The ۱۰th Iranian Biology conference, Shiraz, ۳۴-۳۸
- ۳-Zamani M.R., **M. Motallebi**, and A. barzegar. ۲۰۰۱. “Polygalacturonase activity and pathogenicity of *Xanthomonas* sp. On Sugar beet”. The Second National Biotechnology Congress, Karaj. ۱۴۷۰-۱۴۷۷.
- ۴-Zamani M.R., **M. Motallebi**, and D. Chobineh. ۲۰۰۱. “DNA polymorphism and protein pattern of *Puccinia striiformis* in Wheat”. The ۱۰th Iranian Biology conference, Shiraz, ۲۹-۳۳.
- ۵-Zamani M.R., **M. Motallebi**, and A. Hosseinzadeh Colagar. ۲۰۰۱. “*In vitro* pathogenicity of *Ascochyta rabiei* on chickpea roots”. The ۱۰th Iranian Biology conference, Shiraz, ۴۳- ۴۷.
- ۶-**Motallebi M.**, M.R. Zamani, and M. Rezaei. ۲۰۰۱. “Study of genetic diversity among *Ascochyta rabiei* isolates by RAPD”. The ۱۰th Iranian Biology conference, Shiraz, ۳۹-۴۲.
- ۷-Hosseinzadeh Colagar A., **M. Motallebi**, and M.R. Zamani. ۲۰۰۳. “Isolation of bean (*Phaseolus vulgaris*) pgip gene by PCR and Cloning of the bean pgip gene”. The ۳rd National Biotechnology Congress, Ferdosi Univ., Mashhad. ۵۷-۶۰.
- ۸-Zahri S., M.R. Zamani, and **M. Motallebi**. ۲۰۰۳. “Molecular study of endoglucanase isozyme in *Trichoderma reesei*”. The ۳rd National Biotechnology Congress, Ferdosi Univ., Mashhad. ۲۲۶-۲۲۹
- ۹-Yari R., M.R. Zamani, **M. Motallebi** and S. Zahri. ۲۰۰۳. “ β -۱-۴ glucosidase production and detection amplified of a segment of its gene in *Cellulomonas* sp.”. The ۳rd National Biotechnology Congress, Ferdosi Univ., Mashhad. ۲۲۹-۲۳۱.
- ۱۰- Madaeni S.S., B. Khodadadi, H. Mirmomeni, M.R. Zamani, and **M. Motallebi**. ۲۰۰۳. “Microfiltration of bacteriophage in the presence of host bacteria”. The Fifth International Membrane Science & Technology Conference, The University of New South Wales, Sydney, Australia.

- ۱۱- Salehzadeh A.^۱, **Motallebi M.**^۲, and Zamani M.R. ۲۰۰۵. "Tomato polygalacturonase inhibiting protein(PGIP) is not induced by pathogen but increased with ageing." ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۲- Jalali A., Zamani M.R., and **Motallebi M.** ۲۰۰۵. "Isolation, cloning and sequencing of *chit ۳۷* of *Trichoderma harzianum* A." ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۳- Zahri S., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Molecular study of cellobiohydrolaseII (*cbhII*) gene from *Trichoderma parceramosum*". ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۴- Babaei A., Zamani M.R., **Motallebi M.** and Zahri S. ۲۰۰۵. "Isolation, cloning and sequencing of *eglV* gene from *Trichoderma reesei* PTCC۵۱۴۲." ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۵- Hosseinzadeh Colagar, A., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Isolation, cloning and sequencing of polygalacturonase inhibiting protein (*pgip ۲*)." ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۶- Harighi M.J., Zamani M.R., and **Motallebi M.** ۲۰۰۵. "Cloning and sequence analysis of *chit ۴۲* gene from *Trichoderma tansarum* for expression." ۱۵- ۱۷ Aug., The ۴th National Biotechnology Congress, Kerman (Mahan).
- ۱۷- Hosseinzadeh Colagar A., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Characterization of Bean polygalacturonase-inhibiting protein genes by mismatch primers, multiplex PCR and cloning". ۲۰ & ۲۱ Nov., The first Iranian Pulse Symposium, Ferdowsi Univ., Mashhad, Iran. ۶۲۱-۶۲۴.
- ۱۸- Mohammadzadeh R. Zamani M.R., **Motallebi M.**, and Bidmeshkipour A. ۲۰۰۵. "Isolation, cloning, and sequencing of β - ۱,۴ glucanase of *Trichoderma virens*". ۲۰ & ۲۱ Nov., The first Iranian Pulse Symposium, Ferdowsi Univ., Mashhad, Iran. ۶۱۵-۶۱۷.
- ۱۹- Fallahi F., Karimzadeh F. **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Isolation and cloning of *pgip ۲* gene from two cultivars of *Phaseolus vulgaris*". ۲۰ & ۲۱ Nov., The first Iranian Pulse Symposium, Ferdowsi Univ., Mashhad, Iran. ۶۱۸-۴۲۰.
- ۲۱- Moghadam.. R., Kheiri. H., Zamani. **M.**, **Motalebi.** M., Moghaddassi Jahromi .Z and Deljou. A. ۲۰۰۷. "Transformation of canola by *chit ۳۶* and *bgn ۱۳,۱* genes". ۲۴ - ۲۶ Nov., The ۵th National Biotechnology Congress, Tehran, I.R. of Iran.

- ۲۲- Akhgari A.B., Abedi A., Zamani M.R., **Motallebi M.**, Moghaddassi Jahromi Z., Piri Kh., and Naghavi M.R. ۲۰۰۷. "Transformation of Canola by *pgip* α and *pgip* β genes". ۲۴ - ۲۶ Nov., The ۵th National Biotechnology Congress, Tehran, I.R. of Iran.
- ۲۳- Kalantari M., Taasob Shirazi F., **Motallebi M.**, Zamani M.R., Hamze Sh., Jonobi P., and Moeini A. ۲۰۰۷. "Transformation of Sugar beet by *pgip* α and *pgip* β genes". ۲۴ - ۲۶ Nov., The ۵th National Biotechnology Congress, Tehran, I.R. of Iran.
- ۲۴- Rezanejad H., Lotfi K., Zamani M.R., **Motallebi M.**, Moghaddassi Jahromi Z. and Deljou A. ۲۰۰۷. "Transformation of canola by *chit* ϵ γ gene (cDNA and genomic DNA)". ۲۴ - ۲۶ Nov., The ۵th National Biotechnology Congress, Tehran, I.R. of Iran.
- ۲۵- Akhgari A.B., **Motallebi M.**, and Zamani M.R. ۲۰۰۸. "Cloning of *pgip* α gene from *Phaseolus vulgaris* cv. Akhtar". ۲۹-۳۰ January, ۲th national congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. Kerman, I. R. of Iran
- ۲۶- Moghadam. R., Rezanejad H., **Motallebi M.**, Zamani M.R., and Hamze Sh. ۲۰۰۸. "Optimization of regeneration of Hyola ۳۰۸ and RGS۰۰۳ canola cultivars". ۲۹-۳۰ January, ۲th national congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. Kerman, I. R. of Iran
- ۲۷- Shokouhifar F., Zamani M.R., **Motallebi M.**, Malbobi M.A., and Mosavi A. ۲۰۰۸. "Synthetic promoters to regulate transgenes expression". ۲۹-۳۰ January, ۲th national congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. Kerman, I. R. of Iran
- ۲۸- Soroor F., Zamani M.R., **Motallebi M.**, and Zargari K. ۲۰۱۰. "Transformation of *Brassica napus* (R line Hyola ۳۰۸) by cDNA of *bgn* ۱۳,۱ gene". ۲۲-۲۴ May, ۱۱th Iranian Genetics Congress, Tehran, Iran.
- ۲۹- Etebari M., **Motallebi M.** and Zamani M.R. ۲۰۱۰. "Isolation and cloning of genomic DNA and cDNA of *Rs*-AFP α gene from *Raphanus sativus*". ۲۲-۲۴ May, ۱۱th Iranian Genetics Congress, Tehran, Iran.
- ۳۰- Moradyar M., Zamani M.R., **Motallebi M.**, Zargari K. ۲۰۱۰. "Transformation of *Brassica napus* by *chit* β gene". ۲۲-۲۴ May, ۱۱th Iranian Genetics Congress, Tehran, Iran.
- ۳۱- Solgi T., Moradyar M., **Motallebi M.**, Zamani M. R. and KHosroshahli M. ۲۰۱۰. "Modification of chitinase cDNA from *Trichoderma atroviridae* by SOEing PCR". ۲۲-۲۴ May, ۱۱th Iranian Genetics Congress, Tehran, Iran.

- ۳۲- Esfahani K., Zamani M. R. and **Motallebi M.** ۲۰۱۰. “Analyses of the effect of different concentrations of kanamycin on the development and growth of *in vitro* seedlings of five potato (*Solanum tuberosum*) cultivars”. ۲۴-۲۶ July, ۱۱th Iranian Crop Science Congress, Environmental Sciences research Institute, Shahid Beheshti University, Tehra, Iran.
- ۳۳- Roohi L, **Motallebi M.**, Zamani M.R. and Khosroshahli M. ۲۰۱۰. “Transformation of *Brassica napus* by *bgn1* gene and molecular confirmation of transgenic plants”. ۱۱th Iranian Crop Science Congress, Environmental Sciences research Institute, Shahid Beheshti University, Tehra, Iran.
- ۳۴- Moradyar M. , Solgi T. , Zamani M. R., **Motallebi M.** and Zargari K. ۲۰۱۰. “Modification of *chit3* gene from *Trichoderma atroviridae* by SOEing PCR”. ۱۱th Iranian Crop Science Congress, Environmental Sciences research Institute, Shahid Beheshti University, Tehra, Iran.
- ۳۵- Matroodi S., Zamani M.R. and **Motallebi M.** ۲۰۱۰. “Enhancement of antifungal activity of chitinase ۳ by protein engineering”. ۱۱th Iranian Crop Science Congress, Environmental Sciences research Institute, Shahid Beheshti University, Tehra, Iran.
- ۳۶- Shafei N., Zamani M.R., **Motallebi M.** and Moghadasi Z. ۲۰۱۱. “Prokaryotic expression of *Raphanus sativus* defensin gene”. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.
- ۳۷- Zebardast F., **Motallebi M.**, Zamani M.R. and Jourabchi E. ۲۰۱۱. “Isolation, cloning and prokaryotic expression of *ltp* gene from rice”. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.
- ۳۸- Matroodi S., Zamani M.R., **Motallebi M.**, Mousavi A. and Davoodi D. ۲۰۱۱. “Optimization of physical and biological parameters for transient expression of *Uida* gene in embryonic callus of sugarcane (*Saccharum officinarum*)”. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.
- ۳۹- Moradyar M., Zamani M.R., **Motallebi M.**, Moghadasi Z. and Jourabchi E. ۲۰۱۱. “Assessment of antifungal activity of transgenic canola by using radial diffusion assay technique”. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.
- ۴۰- Esfahani K. Raoufzadeh S., Jourabchi E., Hashemi H., **Motallebi M.** and Zamani m.R. ۲۰۱۱. “Transformation of *bgn1* cDNA from *Trichoderma virens* to different potato cultivar”. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.

- ۴۱- Esfahani K. Raoufzadeh S. Moghadasi z., **Motallebi** M. and Zamani M.R. ۲۰۱۱. “Construction of a prokaryotic expression vector harbouring *bgn* cDNA from *Trichoderma virens* to express BGN recombinant protein in *E. coli* BL21. The ۷th National biotechnology Congress of I.R. of Iran. ۱۲-۱۴ Sep., Niroo Research Institute, Tehran, Iran.
- ۴۳- Shafei N., Zamani M.R., **Motallebi** M., Moghadasi Z., and Joorabchi E. ۲۰۱۲. “Antifungal activity of prokaryotic expressed defensin RS-AFP on some phytopathogenic and human pathogenic fungi”. ۱۳th Iranian Genetics Congress. ۲۱-۲۳ may. Tehran, Iran.
- ۴۴- Matroodi S., Zamani M.R., **Motallebi** M., Mousavi A., Davoodi D., and Joorabchi E. ۲۰۱۲. “Optimization of particle bombardment conditions by GUS reporter gene in embryonic callus of sugarcane (*Nco*)”. ۱۳th Iranian Genetics Congress. ۲۱-۲۳ may. Tehran, Iran.
- ۴۵- Kowsari m., **Motallebi** M., Zamani M.R., and Moghadasi Z. ۲۰۱۲. “Engineering of chitinase for improving of biocontrol activity of *Trichoderma harzianum*”. ۱۳th Iranian Genetics Congress. ۲۱-۲۳ may. Tehran, Iran.
- ۴۶- Alizadeh-Tilaki A., **Motallebi** M., Zamani M.R., Moghadassi-Jahromi, and Jorabchi E. ۲۰۱۳. “Cloning of osmotin gene in expression vector and optimization of it’s expression in prokaryotic system”. ۸th National Biotechnology Congress of I.R. Iran and ۴th National Biosafety Congress of Iran. ۶-۸ July, Faculty of physical Education, Tehran University, Tehran, I.R. of Iran.
- ۴۷- Zandvakili N. Zamani M.R., **Motallebi** M., Moghadassi-Jahromi, and Jorabchi E. ۲۰۱۳. “Cloning and heterologous expression of PR cDNA prokaryotic system”. ۸th National Biotechnology Congress of I.R. Iran and ۴th National Biosafety Congress of Iran. ۶-۸ July, Faculty of physical Education, Tehran University, Tehran, I.R. of Iran.
- ۴۸- Ahanchian E., **Motallebi** M., Zamani M.R., Jorabchi E., and Moghadassi-Jahromi ۲۰۱۳. “Production of transgenic canola improve fungal resistance using *dabb* gene.” ۸th National Biotechnology Congress of I.R. Iran and ۴th National Biosafety Congress of Iran. ۶-۸ July, Faculty of physical Education, Tehran University, Tehran, I.R. of Iran.
- ۴۹- Zarinpanjeh N., Ziaei M., Zamani M.R., **Motallebi** M., Jourabchi E., and Moghadassi Jahromi Z. ۲۰۱۴. “Co-transformation of defensin and chimeric chitinase genes”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.

- ۵۰- Moradyar M., Zamani M.R., **Motallebi M.**, Jourabchi E., and Moghadassi Jahromi Z. ۲۰۱۴. “Designing and construction of plant expression vectors containing chimeric chitinase gene (ChBD + *chit1*) under the control of the synthetic pathogen inducible promoters”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۱- Aghazadeh R., Zamani M.R., **Motallebi M.**, Moghadassi Jahromi Z., and Jourabchi E. ۲۰۱۴. “Design of recombinant plasmid pBTLP-CHIT1 (chimer) for resistance to *Sclerotinia* disease in canola”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۲- Ataei A., **Motallebi M.**, Zamani M.R., Ziaei M., Moghadassi Jahromi Z., and Jourabchi E. ۲۰۱۴. “Cloning and expression of chimeric chitinase1 (chitinase 1+chitin binding domain) in *E. coli*”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۳- Alizadeh Tilaki, **Motallebi M.**, Zamani M.R., Jourabchi E., and Moghadassi Jahromi Z. ۲۰۱۴. “Prokaryotic expression of tobacco recombinant osmotin gene and study of its antifungal activity against some plant pathogenic fungi”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۴- Ardestani N., **Motallebi M.**, Zamani M.R., Moghadassi Jahromi Z., Jourabchi E., and Ziaei M. ۲۰۱۴. “Cloning and prokaryotic expression of *chitinase1* containing *Rhizopus* ChBD in C-terminal”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۵- Zandvakili N., Zamani M.R., **Motallebi M.**, Moghadassi Jahromi Z., and Jourabchi E. ۲۰۱۴. “Prokaryotic expression of *Zea mays* recombinant PR1 protein and study of its antifungal activity against some plant pathogenic fungi”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۶- Shiebiki S., **Motallebi M.**, Zamani M.R., Moghadassi Jahromi Z., and Jourabchi E., ۲۰۱۴. “Cloning and prokaryotic expression of *Trigonella foenum-graecum* defensin (Tfgd)”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۷- Ziaei M., Zarinpanjeh N., **Motallebi M.**, Zamani M.R., Moghadassi Jahromi Z., and Jourabchi E. ۲۰۱۴. “Construction of plant expression vector harboring *chit1* and *pgip* genes”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.

- ۵۸- Hamzeh S. **Motallebi** M., Zamani M.R., Moghaddasi Jahromi Z., and Jourabchi E. ۲۰۱۴. “Construction of plant binary vector for marker-free transgenic plant production”. ۱st International & ۱۳th Iranian Genetics Congress, ۲۴-۲۶ May, Tehran, Iran.
- ۵۹- Zarinpanjeh N., Ziaei M, Zamani M.R., **Motallebi** M., Jourabchi E. and Moghaddasi Jahromi Z. ۲۰۱۴. “Defensin Transformation to Canola for resistance against fungal pathogens”. ۱th International, ۱۳th Iranian Crop Science congress and ۳th Iranian Seed Science and technology Conference, Karaj, Tehran, I.R. of Iran.
- ۶۰- Hamzeh S., **Motallebi** M., Zamani M.R., Moghaddasi Jahromi Z. and Jourabchi E. ۲۰۱۴. “Generation of marker-free transgenic plant using conditional expression of recombinase in transgenic seeds”. ۱th International, ۱۳th Iranian Crop Science congress and ۳th Iranian Seed Science and technology Conference, Karaj, Tehran, I.R. of Iran.
- ۶۱- Ziaei M., Zarrinpanjeh N., **Motallebi** M., Zamani M.R., Moghaddasi Jahromi Z. and Jourabchi E. ۲۰۱۴. “Transgenic canola plants harboring *chimeric chitinase* $\epsilon\gamma$ gene inhibit mycelia growth of *Alternaria solani*”. ۱th International, ۱۳th Iranian Crop Science congress and ۳th Iranian Seed Science and technology Conference, Karaj, Tehran, I.R. of Iran.
- ۶۲- Shiebeigi Sh, **Motallebi** M, Zamani M.R, Moghaddasi jahromi Z. Jourabchi E., ۲۰۱۵, “Expression and study of antifungal activity of expressed protein in prokaryotic system”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I.R. of IRAN
- ۶۳- Moradyar M., Zamani M.R., **Motallebi** M., Aghazadeh R., Jourabchi E., Moghaddasi Jahromi Z, ۲۰۱۵, “The effect of F cis acting element on induced expression of chimeric chitinase gene in transgenic canola”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I.R. of IRAN
- ۶۴- Mirhoseini Motlagh S. N., **Motallebi** M, Zamani M.R, Moghaddasi Jahromi Z., Jourabchi E., ۲۰۱۵, “Cloning of chimeric *Chit* $\epsilon\gamma$ gene in an expression eukaryotic vector under the control of inducible synthetic promoter”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۶۵- Ghiasi Sis J., Mirhoseini Motlagh S. N., **Motallebi** M, Zamani M.R, Moghaddasi Jahromi Z., Jourabchi E., ۲۰۱۵, “Cloning of Chitinase $\epsilon\gamma$ gene to an eukaryotic expression vector with a synthetic promoter”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۶۶- Ghiasi Sis J, **Motallebi** M, Zamani M.R, Moghaddasi Jahromi Z., Jourabchi E., ۲۰۱۵, “Cloning of chimeric Chitinase $\epsilon\gamma$ gene to analysis the effect of ChBD in C-terminal end, in eukaryotic expression system”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN

- ۶۷- Ataei A., **Motallebi** M, Zamani M.R, ziaei M., moghaddassi Jahromi Z., Jourabchi E., ۲۰۱۰, “Antifungal study of heterologous expressed Chimeric chitinase $\xi\psi$ against pathogenic Fungi”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۶۸- Ardestani N., **Motallebi** M, Zamani M.R, Ziaei M., Moghaddassi Jahromi Z., Jourabchi E., ۲۰۱۰, “Antifungal study of heterologous expressed Chimeric chitinase $\xi\psi$ against pathogenic Fungi”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۶۹- Aghazadeh R, Zamani M.R, **Motallebi** M, Moradyar M, Moghaddassi Jahromi Z., Jorabchi E., ۲۰۱۰, “Co-transformation of *Brassica napus l.* by *chitinase* $\xi\psi$ and *tlp* genes towards improving resistance to *Sclerotinia sclerotiorum*”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۷۰- Matroodi S., Zamani M.R, **Motallebi** M, Mousavi A., Davoodi D., ۲۰۱۰, “Assessment of antifungal activity of transgenic sugarcane expressing a chimeric chitinase gene”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۷۱- Javaheri safa Z, Aminzadeh S, Zamani M.R, **Motallebi** M, ۲۰۱۰, “Isolation, screening and identification of cyanide degrading bacteria”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۷۲-Ataei A, Zamani MR, **Motallebi** M, Ziaei M, Moghaddassi Jahromi Z, Jourabchi Z, ۲۰۱۶, “Antifungal study of heterologous expressed chitinase $\xi\psi$ against *Candida albicans* caused agent of human infection”. ۳rd International & ۱۴th Iranian Genetics Congress, ۲۱-۲۳ May, Tehran, Iran.
- ۷۳- Nasr Partovi M, **Motallebi** M, Zamani MR, Moghaddassi Jahromi Z, Jourabchi Z, ۲۰۱۶, “Fused of cloning and Construction *LTP* and *Osmotin* genes ”. ۳rd International & ۱۴th Iranian Genetics Congress, ۲۱-۲۳ May, Tehran, Iran.

Abstracts in National & International Conferences:

- ۱- Ayoubi H.R., M.R. Zamani , and **M. Motallebi**. ۱۹۹۶. “*Yersinia enterocolitica* incidence in relation to season, age, and sex”. The ۵th Iranian Biology Conference, ۲۸-۳۰ August, Tabriz University, Tabriz, Iran.
- ۲- **Motallebi** M., M.R. Zamani, H.R. Ayoubi, and A. Andalib. ۱۹۹۷. “Classification of *Yersinia enterocolitica* by biochemistry reactions, bioassay tests, and protein patterns”. The ۶th Iranian Biology Conference, ۲۵-۲۷ August, Shaheed Bahonar University of Kerman, Kerman, Iran.

- ۳- **Motallebi M.**, M.R. Zamani, H.R. Ayoubi, and A. Andalib. ۱۹۹۷. "Relationship of peritoneal infectivity in mice to molecular characteristics of *Yersinia enterocolitica* isolates of Iran". First Iranain Congress of Zoology. ۱۷-۱۸ Sept. , University of Teacher Education, Tehran, Iran.
- ۴- **Motallebi M.**, M.R. Zamani, and B. Saffar. ۱۹۹۸. "Molecular study of pathogenic *Yersinia enterocolitica* isolates of human and chicken". The ۷th Iranian Biology Conference. ۲۲-۲۴ August, University of Isfahan, Isfahan, Iran.
- ۵- Zamani M.R., **M. Motallebi**, H. Younessi, and M.A. Arefpour. ۱۹۹۸. "Study of pathogenicity and cell wall degrading enzymes production in *Fusarium oxysporum*". The ۱۳th Iranain Plant Protection Congress. ۲۳-۲۷ August, Karaj, Iran.
- ۶- Hossein-zadeh A., Zamani M.R., and **Motallebi M.** ۱۹۹۹. "RAPD- PCR analysis of pathogenic isolates of *Ascochyta rabiei* from Iran". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.
- ۷- Hossein-zadeh A., Zamani M.R., and **Motallebi M.** ۱۹۹۹. "Study of pathogenisity and polygalacturonase activity of *Ascochyta rabiei* isolates of Iran". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.
- ۸- Arefpour M.A., Harighi M.J., Zamani M.R., **Motallebi M.**, and Younessi H. ۱۹۹۹. "Polygalacturonase activity and overlaying of Iranian isolates of *Fusarium oxysporum*". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.
- ۹- Harighi M.J., Zamani M.R., and **Motallebi M.** ۱۹۹۹. "Zymogarm grouping of *Fusarium oxysporum* isolates from Iran". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.
- ۱۰- Younessi H., Okhovat M., Hedjaroude Gh., Zamani M.R., and **Motallebi M.** ۱۹۹۹. "Variability in virulence of *Ascochyta rabiei* on chickpeas in Kermanshah province". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.
- ۱۱- Saffar B., **Motallebi M.**, and Zamani M.R. ۱۹۹۹. "Differentiation between virulence and avirulence *Yersinia enterocolitica* isolates of chicken on the bases of plasmid curing". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۲nd Sept., Razi University, Kermanshah, I.R. Iran.

- ۱۲- Rezaei A., **Motallebi M.**, and Zamani M.R. ۱۹۹۹. "Comparison of restriction patterns of virulence plasmid of *Yersinia enterocolitica* isolates from human and chicken". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۳rd Sept., Razi University, Kermanshah, I.R. Iran.
- ۱۳- Mazaheri M., Amiri F., **Motallebi M.**, and zamani M.R. ۱۹۹۹. "Stimulation of neonata mortality and its relation to birth weight". The ۸th Iranian Biology Conference, ۳۱ Aug.- ۳rd Sept., Razi University, Kermanshah, I.R. Iran.
- ۱۴- Rezaei A., **M. Motallebi**, and M.R. Zamani. ۲۰۰۰. "Detection of pectolytic enzymes from *Yersinia enterocolitica* isolates of human and chicken". The ۹th Iranian Biology conference, ۱۵-۱۷ Aug.
- ۱۵- Rostamian A., M.R. Zamani, and **M. Motallebi**. ۲۰۰۰. "Study of polymorphism DNA in *Fusarium oxysporum* isolates". The ۹th Iranian Biology conference, ۱۵-۱۷ Aug.
- ۱۶- Hisseinzadeh A., H. Younessi, M. Okhovat, **M. Motallebi** and M.R. Zamani. ۲۰۰۰. "Evaluation of aggressiveness of *Ascochyta rabiei* isolated from chickpea under laboratory and greenhouse condotions". ۱۴th Iranian Plant Protection Congress. ۵-۸ Sept. Isfahan University of Technology, Isfahan, I.R.Iran.
- ۱۷- Imamjome A., E. Farshadfar, M.R. Zamani and **M. Motallebi**. ۲۰۰۰. "Genetic distanse determination in Iranian chickpea using RAPD marker". ۶th Iranian Congress of Crop Protection and Plant Breeding. ۳-۶ Sept. University of Mazandaran, Babolsar, I.R.Iran.
- ۱۸- Rezaie A., **M. Motallebi**, and M.R. Zamani. ۲۰۰۱. "The role of chromosome in polygalacturonase production in *Yersinia enterocolitica* isolates of human and chicken". The ۱st Iranian Congress on Applied Biology. ۶-۷ Feb., Biology Dept., Azad Univ., Mashhad, IR. Iran.
- ۱۹- Rostamian A., M.R. Zamani, and **M. Motallebi**. ۲۰۰۱. "Classification of *Fusarium oxysporum* isolates on the basis of vegetative compatibility". The ۱st Iranian Congress on Applied Biology. ۶-۷ Feb., Biology Dept., Azad Univ., Mashhad, IR. Iran.
- ۲۰- Hosseinzadeh- Colagar A., M.R. Zamani, and **M. Motallebi**. ۲۰۰۱. "Classification of *Ascochyta rabiei* isolates of west- provinces of Iran by polygalacturonase activity and RAPD". The ۱st Iranian Congress on Applied Biology. ۶-۷ Feb., Biology Dept., Azad Univ., Mashhad, IR. Iran.

- ۲۱- Barzegar A., **M. Motallebi** and M.R. Zamani. ۲۰۰۱. "Comparison of pathogenicity and protein pattern of *Xanthomonas* sp. isolates, causal agent of canker in sugarbeet". The ۱st Iranian Congress on Applied Biology. ۶-۷ Feb., Biology Dept., Azad Univ., Mashhad, IR. Iran.
- ۲۲- Fallahi H., M.R. Zamani, and **M. Motallebi**. ۲۰۰۲. "Purification and characterization of polygalacturanase enzyme from *Ascochyta rabiei* isolates". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۳- Hosseinzadeh A., M.R. Zamani, **M. Motallebi**, and H. Fallahi. ۲۰۰۲. "Study of DNA polymorphism among highly (HV) and weakly virulent (WV) isolates of *Ascochyta rabiei* using RAPD". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۴- Jazayeri O., **M. Motallebi**, M.R. Zamani, and M.J Harighi. ۲۰۰۲. "Use of RAPD, enzyme activity staining, and colony size to differentiate phytopathogenic *Fusarium oxysporum*". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۵- Alani B., **M. Motallebi**, M.R. Zamani, and O. Jazayeri. ۲۰۰۲. "Purification and characterization of pectic enzymes from *Fusarium oxysporum*". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۶- Barzegar A., M.R. Zamani, **M. Motallebi**, and H. Rahimian. ۲۰۰۲. "Characterization of isolates of *Xanthomonas* sp. in Sugarbeet by SDS-PAGE and RAPD". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۷- Rostamian A., **M. Motallebi**, and M.R. Zamani. ۲۰۰۲. "Study of Iranian isolates of *Fusarium oxysporum* by vegetative compatibility". ۱۵th Iranian Plant Protection Congress. ۷-۱۱ Sept., Razi University, Kermanshah, IR. Iran.
- ۲۸- Habibollahy H., **M. Motallebi**, M.R. Zamani, and A. Hossainzadeh. ۲۰۰۳. "Study of interaction of Bean PGIP and *Fusarium oxysporum* polygalacturonase". First National Congress of Molecular Cell Biology. ۲۵-۲۶ Feb., Chamran University of Ahvas, IR. Iran.
- ۲۹- Bahramsari N., M.R. Zamani, **M. Motallebi**, **M. Motallebi**, Seyed Asli N., and M.J. Harighi. ۲۰۰۳ "Study of Glucanase activity in different *Trichoderma* isolates". First National Congress of Molecular Cell Biology. ۲۵-۲۶ Feb., Chamran University of Ahvas, IR. Iran.

- ۳۰- Badeezadegan S., M.R.Zamani, **M. Motallebi**, Hossainzadeh A., and Habibollahi H. ۲۰۰۳. "Partial characterization of (PGIP), the inhibitor protein of PG from *Ascochyta rabiei*". First National Congress of Molecular Cell Biology. ۲۵-۲۶ Feb., Chamran University of Ahvas, IR. Iran.
- ۳۱- Seyed Asli N., **M. Motallebi**, M.R. Zamani, Bahramsari N., and M.J. Harighi. ۲۰۰۳. "Identification of chitinase producing isolate of *Trichoderma* sp". First National Congress of Molecular Cell Biology. ۲۵-۲۶ Feb., Chamran University of Ahvas, IR. Iran.
- ۳۲- Ghoujehi F., **M. Motallebi**, M.R. Zamani, and S. Zahri. ۲۰۰۳. "Preliminary molecular study of β -glucosidase". ۸th Iranian Genetic Congress. ۲۰-۲۲ May, Tehran, IR. Iran.
- ۳۳- Seyed Asli N., M.R. Zamani, **M. Motallebi**, N. Bahramsari, and M.J. Harighi. ۲۰۰۳. "Molecular characterization of chitinase enzymes in *Trichoderma harzianum*." ۸th Iranian Genetic Congress. ۲۰-۲۲ May, Tehran, IR. Iran.
- ۳۴- Badri, M., M.R. Zamani, **M. Mottalebi**, and M.J. Harighi. ۲۰۰۳. "Antagonistic effect of *Trichoderma* on two phytopathogenic fungi and detection of Chitinase gene in *Trichoderma* sp.". The ۱۱th Iranian Biology conference, ۲۳-۲۵ Aug. Urmia University, Urmia, I.R. Iran.
- ۳۵-Yari R., **Motallebi M.**, M.R. Zamani, and S. Zahri. ۲۰۰۳. "Assessment of optimized producing conditions of Endo β -۱,۴-glucanase enzyme and detection of its gene in *Cellulomonas* sp.". The ۱۱th Iranian Biology conference, ۲۳-۲۵ Aug. Urmia University, Urmia, I.R. Iran.
- ۳۶-Onsori H., **Motallebi M.**, M.R. Zamani, and S. Zahri. ۲۰۰۳. "Detection of β -۱,۴-Glucosidase gene and its product in *Aspergillus* sp.". The ۱۱th Iranian Biology conference, ۲۳-۲۵ Aug. Urmia University, Urmia, I.R. Iran.
- ۳۷-Salehzadeh A., M.R. Zamani, **M. Mottalebi**, and A. Hosseinzadeh. ۲۰۰۳. "pgip gene amplification and PGIP-PG interaction in tomato (*lycopersicon esculentum*)". The ۱۱th Iranian Biology Conference, ۲۳-۲۵ Aug. Urmia University, Urmia, I.R. Iran.
- ۳۸-Samadi, L., B.S. Behboodi, and **M. Motallebi**. ۲۰۰۳. "Detection of apoptotic features in fusaric acid-treated root meristem cells of *Crocus sativus* L.". The ۱st Iranian Conference for Cell and Developmental Biology, ۱۳-۱۴ Sep. Tehran, I.R.Iran.
- ۳۹- Samadi, B. Behboodi, and **M. Motallebi**. ۲۰۰۳. "Detection of apoptotic bodies and DNA ladder in root

meristem cells of *Crocus sativus* L. after fusaric acid cell death induction” ELSO Conference, ۲۰-۲۴ Sep. Dresden, Germany.

۴۰- Zamani, M.R., **Motallebi M.**, N. Seyed-Asli, N. Bahramsari, and M. Badri. ۲۰۰۴. “Enzyme activity and PCR detection of chitinase and glucanase genes of *Trichoderma* isolates and their antagonistic effect on two phytopathogenic fungi”. ۳rd international Symposium on Biotechnology. ۱۹-۲۱ Jan., University of Sindh, Jamshoro, Pakistan.

۴۱-**Motallebi M.**, M.R. Zamani, H. Habibollahy, A. Hossainzadeh. ۲۰۰۴. “Cloning and characterization of *Phaseolus vulgaris* polygalacturonase-inhibiting protein (PGIP) gene and study of PGIP with fungal polygalacturonase”. ۳rd International Symposium on Biotechnology. ۱۹-۲۱ Jan., University of Sindh, Jamshoro, Pakistan.

۴۲- Badri M., M.R. Zamani, **M. Motallebi** and M.R. Harighi. ۲۰۰۴. “Comparison of the effect of *Trichoderma harzianum* Δ and growth regulators on *Fusarium oxysporum* polygalacturonase activity.” The ۱۲th Iranian Biology Conference, ۳۱ Aug.- ۲ Sep. Bu Ali Sina University, Hamadan, I.R. Iran.

۴۳- Badri M., M.R. Zamani, **M. Motallebi**, M.J. Harighi and N. Asli. ۲۰۰۴. “Mycoparasitism of *Rhizoctonia solani* by *Trichoderma harzianum* Δ .” The ۱۲th Iranian Biology Conference, ۳۱ Aug.- ۲ Sep. Bu Ali Sina University, Hamadan, I.R. Iran.

۴۴- Daylami Z., **M. Motallebi**, M.R. Zamani, and A. Hossainzadeh. ۲۰۰۴. “Inhibition effect of bean (*Phaseolus vulgaris* cv. Naz) PGIP on PG activity of different fungal isolates.” The ۱۲th Iranian Biology Conference, ۳۱ Aug.- ۲ Sep. Bu Ali Sina University, Hamadan, I.R. Iran.

۴۵- Onori H, **M. Motallebi**, M.R. Zamani, and S. Zahri. ۲۰۰۴. “Study of Cellobiohydrolase activity in *Aspergillus* isolates.” The ۱۲th Iranian Biology Conference, ۳۱ Aug.- ۲ Sep. Bu Ali Sina University, Hamadan, I.R. Iran.

۴۶- Badizadegan. S. **Motallebi. M.**, Zamani M.R., Hosseinzadeh Colagar. A. and Habibollahi. H. ۲۰۰۴. “Interaction of *Ascochyta rabiei* PG with bean PGIP and analysis of *P. vulgaris* cv. Khomain pgip gene sequence.” ۱۶th Iranian Plant Protection Congress. ۲۸ Aug.- ۱ Sept., Tabriz University, Tabriz, IR. Iran.

۴۷- Habibollahi. H, Zamani M.R., **Motallebi. M.** and Hosseinzadeh Colagar A.. ۲۰۰۴. “Inhibiting effect of bean PGIP on *F. oxysparum* PG activity and study of *P. vulgaris* cv. Talash pgip gene

sequence.” ۱۶th Iranian Plant Protection Congress. ۲۸ Aug.- ۱ Sept., Tabriz University, Tabriz, IR. Iran.

۴۸- Harighi M.J. , **Motallebi M.**, Zamani M.R.. ۲۰۰۴. Purification of chitinase from *Trichoderma harizianum* .” ۱۶th Iranian Plant Protection Congress. ۲۸ Aug.- ۱ Sept., Tabriz University, Tabriz, IR. Iran.

۴۹- Hosseinzadeh A., **Motallebi M.**, and Zamani M.R.. ۲۰۰۴. “Preliminary analysis indicates a single amino acid change in LRR ۶ of *Phaseolus vulgaris* PGIP affect the PGIP-PG interaction.” ۱۶th Iranian Plant Protection Congress. ۲۸ Aug.- ۱ Sept., Tabriz University, Tabriz, IR. Iran.

۵۰- Falahi F., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Inhibition of polygalacturonase activity of *Scelerotinia sclerotiorum* by PGIP of two bean cultivars (jules and Daneshjo)." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۱- Matrodi S., Zamani M.R. and **Motallebi M.** ۲۰۰۵. "Antagonist effect of *Trichoderma* sp. on *Sclerotinia sclerotiorum* and isolation of *chit* gene from *T. tansarum*." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۲- Babaei A., Zamani M.R. and **Motallebi M.** ۲۰۰۵. "Glucose enrichment of natural substrates by cellulose enzymes from *Trichoderma reesei*." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۳- Rajabkhani Z., Zamani M.R., and **Motallebi M.** ۲۰۰۵. "Cellulase production in mixed cultivation of *Trichoderma reesei* and *Aspergillus niger* and isolation of *eglB* gene from *A. niger*." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۴- Karimzadeh F., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Inhibition effect of bean PGIP on PG activity of *Rhizoctonia solani* (AG-۲) causing root rot in sugar beet." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۵- Zahri S., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Expression of cellobiohydrolyase II from *Trichoderma paceramosum* in *Pichia pastoris*." ۱۳th Iranian Biology Conference and the First International Conference of Biology. ۲۳-۲۵ Aug. Guilan University, Rasht. I.R. Iran.

۵۶- Zahri S., **Motallebi M.**, Zamani M.R. and sadeghi M. ۲۰۰۵. " Molecular study of *eglII* gene from *Trichoderma reesei*" . ۸th Iranian Congress of Biochemistry" and first International congress of Biochemistry & Molecular Biology. ۱۱-۱۵ Sept., Tarbiat Modarres University, Tehran, I.R. of Iran.

- ۵۷- Hosseinzadeh, A., Mostafaie, A., Zamani, M.R. and **Motallebi, M.** ۲۰۰۵. "PURIFICATION OF *PHASEOLUS VULGARIS* PGIP USING ION EXCHANGE and affinity chromatography and study of their inhibition effects on Fungal polygalacturonase activity". ۸th Iranian Congress of Biochemistry and first International congress of Biochemistry & Molecular Biology. ۱۱-۱۵ Sept., Tarbiat Modarres University, Tehran, I.R. of Iran.
- ۵۸- Harighi M.J., Zamani M.R. and **Motallebi M.** ۲۰۰۵. "Cloning of chitinase $\epsilon\gamma$ gene from *Trichoderma atroviride* and its expression in *E. coli*.". ۳th international symposium on biotechnology. ۱۵-۱۸ December. University of Sindh, Jamshoro, Pakistan.
- ۵۹- Hossaenzadeh Colagar A., **Motallebi M.**, and Zamani M.R. ۲۰۰۵. "Differentiation of cloned *pgip* δ and *pgip* ζ genes from bean cultivars using mismatch primers". ۳th international symposium on biotechnology. ۱۵-۱۸ December. University of Sindh, Jamshoro, Pakistan.
- ۶۰- Harighi M.J, Zamani M.R. and **Motallebi M.** ۲۰۰۶. " Study of chit $\epsilon\gamma$ gene and chitinase $\epsilon\gamma$ enzyme purification from *Trichoderma atroviride*". ۹th Iranian Genetic Congress. ۲۰-۲۲ May. Milad Hospital Halls Center, Tehran, Iran.
- ۶۱- Yazdanpanah M., **Motallebi M.** and Zamani M.R.. ۲۰۰۶. "Amplification, cloning and sequencing of Chit $\gamma\delta$ from a high producer chitinase fungal isolate". ۹th Iranian Genetic Congress. ۲۰-۲۲ May. Milad Hospital Halls Center, Tehran, Iran.
- ۶۲- Vatandoost J., Zamani M.R., **Motallebi M.** and Sharifi M. ۲۰۰۶. "Mitochondrial DNA sequences confirm morphological differences found in populations of the Lesser Mouse-eared bat *Myotis blythii* occurring in northern Mesopotamian plain and mid-Zagros mountains in western Iran". ۱۴th Iranian Biology Conference and the Second International Conference of Biology. ۲۹-۳۱ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.
- ۶۳- Hamzeh Sh., **Motallebi M.**, and Zamani M.R. ۲۰۰۶. "Cloning and sequencing of *pgip* δ and *pgip* ζ from Emerson $\gamma\epsilon$ bean cultivar". ۱۴th Iranian Biology Conference and the Second International Conference of Biology. ۲۹-۳۱ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.
- ۶۴- Matrodi S., Zamani M.R. and **Motallebi M.** ۲۰۰۶. "cDNA synthesis and study of chit $\gamma\zeta$ gene structure from *Trichoderma atroviride*". ۱۴th Iranian Biology Conference and the Second International Conference of Biology. ۲۹-۳۱ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.
- ۶۵- Mohammadzadeh R., **Motallebi M.**, and Zamani M.R. ۲۰۰۶. "Expression of β -۱,۳ glucanase gene from *Trichoderma virens* in BY-۲ cell suspension". ۱۴th Iranian Biology Conference and the Second International Conference of Biology. ۲۹-۳۱ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.

- ٦٦- Raoufzadeh S., Zamani M.R. and **Motallebi M.** ٢٠٠٦. "Amplification, cloning and sequencing of Beta-١,٣-glucanase gene (*bgn*^{١٣,١}) from *Trichoderma virens*". ١٤th Iranian Biology Conference and the Second International Conference of Biology. ٢٩-٣١ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.
- ٦٧- Raoufzadeh S., **Motallebi M.** and Zamani M.R. ٢٠٠٦. "Amplification ,cloning and sequencing of cDNA and genomic DNA of β -glucosidase gene (*bgl*^٢) from *Trichoderma* sp(Tv)isolate". ١٤th Iranian Biology Conference and the Second International Conference of Biology. ٢٩-٣١ Aug. Tarbiat Modares University, Tehran, I.R. of Iran.
- ٦٨- Shokouhifar F., **Motallebi M.**, Zamani M.R., Malboobi M.A., and Mousavi A. ٢٠٠٧. Design and construction of synthetic plant pathogen inducible promoters. ٤th International Biotechnology Symposium (IBS) and ١st Pakistan-China–Iran International Conference on Biotechnology, Bioengineering and Biophysical Chemistry (ICBBB'٠٧). November ٤-٨, Institute of Biotechnology and Genetic Engineering, University of Sindh, Pakistan.
- ٦٩- Shokouhifar F., Zamani M.R, **Motallebi M.**, Malboobi M.A., and Mosavi A. ٢٠٠٨. "Evaluation of various factors effects on transient expression of GUS using agro-injection approach for analysis of inducible plant promoters". ١٠th Congress Iranian Genetic Society, ٢١-٢٣ May. Razi Conferences Hall, Tehran, Iran.
- ٧٠- Esfahani K., Zamani M.R, **Motallebi M.**, Rezanejad H., and Hashemi H. ٢٠٠٨. "Designing of expression constructs containing one or two antifungal genes from fungal sources. ١٠th Congress Iranian Genetic Society, ٢١-٢٣ May. Razi Conferences Hall, Tehran, Iran.
- ٧١- Matrodi S., Kowsari M., **Motallebi M.**, Zamani M.R. and Minuchehr. ٢٠٠٨. " Comparison of ٣D structure prediction of chit^{٢٣} and chit^{٤٢} of *Trichoderma atroviride*". ١٥th National & ٣rd International Conference of Biology, ١٩-٢١ August. University of Tehran, Tehran, Iran.
- ٧٢- Moghadasi Jahromi Z., Zamani M.R., Motallebi M. and Akhgari A. ٢٠٠٨. " Study of PGIP expression in transgenic canola using specific antibody". ١٥th National & ٣rd International Conference of Biology, ١٩-٢١ August. University of Tehran, Tehran, Iran.
- ٧٣- Akhgari A., **Motallebi M.**, Zamani M.R. and Hamze Sh. ٢٠٠٨. "Polygalacturonase inhibition of PGIP of transgenic *Brassica napus* on PG activity from its fungal pathogen, *Rhizoctonia solani*". ١٥th National & ٣rd International Conference of Biology, ١٩-٢١ August. University of Tehran, Tehran, Iran.
- ٧٤- Kowsari M., **Motallebi M.** and Zamani M.R. ٢٠١٠. "An efficient transformation system for strong biocontrol agent, *Trichoderma harzianum*". ٢٢-٢٤ May, ١١th Iranian Genetics Congress, Tehran, Iran.
- ٧٥- Solgi T., **Motallebi M.** , Zamani M. R., KHosroshahli M and Jourabchi E. ٢٠١٠. "Transformation of canola by *Chit*^{٢٣} (cDNA) and partial characterization of transgenic plants". ١٩th Iranian Plant

Protection Congress. ۳۰ May- ۲ June., Iranian Research Institute of Plant Protection (IRIPP), Tehran, IR. Iran.

۷۶- Etebari M., Zamani M.R. , **Motallebi** M. And Moghaddasi-Jahromi Z. ۲۰۱۰. Structural analysis of *tfgdγ* gene from *Trigonella foenum-graecum*". ۱۹th Iranian Plant Protection Congress. ۳۰ May- ۲ June., Iranian Research Institute of Plant Protection (IRIPP), Tehran, IR. Iran.

۷۷- Ghaffaryan N., Zamani M.R., **Motallebi** M. and Moghaddasi-Jahromi Z. ۲۰۱۰. Structural analysis of Thaumatin like protein (*tlp*) gene from *oryza sativa*"". ۱۹th Iranian Plant Protection Congress. ۳۰ May- ۲ June., Iranian Research Institute of Plant Protection (IRIPP), Tehran, IR. Iran.

۷۸- Mohammadzadeh R, Zamani M.R., **Motallebi** M, Norouzi P. and Jourabchi E. ۲۰۱۰. "Transformation of Sugar beet by *pgipγ* gene towards improving resistance to fungal pathogens". ۱۹th Iranian Plant Protection Congress. ۳۰ May- ۲ June., Iranian Research Institute of Plant Protection (IRIPP), Tehran, IR. Iran.

۷۹- Roohi L., **motallebi** M., Zamani M.R., Khosroshahli M. ۲۰۱۰. "Isolation and cloning of *bgnγ* gene from *Trichoderma virens*" ۱۴-۱۶ Sep. The ۱۶th National and ۴th International Conference of Biology, Ferdowsi University of Mashhad, IR. of Iran.

۸۰- Ghaffarian N., Zamani M.R., **Motallebi** M. and Moghaddasi Z. ۲۰۱۰. "Cloning and heterologous expression of Thaumatin like protein (*tlp*) gene from *Secale cereal*, and study of its fungal growth inhibition". ۱۴-۱۶ Sep. The ۱۶th National and ۴th International Conference of Biology, Ferdowsi University of Mashhad, IR. of Iran.

۸۱- Zamani A., **Motallebi** M., Zamani M. R. and Jonubi P. , Ayerian S., Moghadasi Jahromi Z. ۲۰۱۰. "Transformation of canola by *tlp* towards improving resistance to fungal pathogen". ۱۴-۱۶ Sep. The ۱۶th National and ۴th International Conference of Biology, Ferdowsi University of Mashhad, IR. of Iran.

۸۲- Mohammadzadeh R., Zamani M.R., **Motallebi** M., Norouzi P. and Jourabchi S. ۲۰۱۰. "Production of transgenic sugar beet to improve fungal resistance using *pgipγ* gene". ۱۴-۱۶ Sep. The ۱۶th National and ۴th International Conference of Biology, Ferdowsi University of Mashhad, IR. of Iran.

۸۳- Shokouhifar F., Zamani MR., **Motallebi** M., Mousavi A., Malboobi MA. and Moghadasi-Jahromi Z. ۲۰۱۰. "Study of the *cis*-acting elements in pathogen inducible promoters in response to

- phytopathogenes”. ۱۴-۱۶ Sep. The ۱۶th National and ۴th International Conference of Biology, Ferdowsi University of Mashhad, IR. of Iran.
- ۸۴- Esfahani K., Zamani M.R., and **Motallebi** M. ۲۰۱۱. “ ”. ۱۳-۱۵ June. Islamic Azad University, Science & Research Branch, Tehran, IR. of Iran.
- ۸۵- Matroodi S., Moradyar M., Zamani M.R., **Motallebi** M., Moghaddassi Jahromi Z. ۲۰۱۲. “Optimization of expression of chitinase ۴۲ and hybrid chitinase using Tagochi methods”. ۴-۶ Sep. The ۱۷th National and ۵th International Conference of Biology, Bahonar Univ., Kerman, IR. of Iran.
- ۸۶- Matroodi S., **Motallebi** M., Zamani M.R. and Jourabchi E. ۲۰۱۲. “Purification of chitinase ۴۲ and chimer chitinase and study of their antifungal activity”. ۴-۶ Sep. The ۱۷th National and ۵th International Conference of Biology, Bahonar Univ., Kerman, IR. of Iran.
- ۸۸- Matroodi S., Zamani M.R., **Motallebi** M., Mousavi A., Davoodi D., Moghaddassi-Jahromi Z., and Jourabchi E. ۲۰۱۲. “Broad-spectrum disease resistance to fungal pathogens in transgenic sugarcane expressing an engineered chitinase gene”. ۲۳-۲۶ Sep., Stanbul, Turkey.
- ۸۹- Matroodi S., Zamani M.R., Haghbeen K., **Motallebi** M., and Moradyar M.. “A Novel Engineered Chitinase Carrying Chitin-binding Domain Shows Improved Physiochemical Properties”. ۲-۶ Sep., Hamburg, Germany.
- ۹۰- Ahannchian E., **Motallebi** M., Zamani M.R., Jourabchi E., and Mogaddassi-Jahromi. ۲۰۱۳. “Isolation, cloning and sequencing of dabb\ gene from *Arabidopsis thaliana*”. ۶-۸th May, Allameh-Amini hall, University of Tehran. I.R. of Iran.
- ۹۱- Zand-Vakilli N., Zamani M.R., **Motallebi** M., Mogaddassi-Jahromi Z., and Jourabchi E. ۲۰۱۳. “cDNA synthesis and cloning of PR۱۰ gene from *Zea mays*”. ۶-۸th May, Allameh-Amini hall, University of Tehran. I.R. of Iran.
- ۹۲- Alizadeh-Tilaki A., **Motallebi** M., Zamani M.R., Jourabchi E., and Mogaddassi-Jahromi. ۲۰۱۳. “Isolation and cloning of osmotin gene from tobacco (*Nicotiana tabacum*)”. ۶-۸th May, Allameh-Amini hall, University of Tehran. I.R. of Iran.
- ۹۳- Kowsari M., Zamani M. R., and **Motallebi** M., ۲۰۱۳. “Introduce a genetically marked *Trichoderma* fusant that can be used as a biocontrol and biomonitor”. The ۱۱th international symposium on biocontrol and biotechnology, Alexandria – Egypt.

- ۹۴- Kowsari M., Zamani M. R., and **Motallebi M.**, ۲۰۱۳. “Developing a new Chitinase Chit ϵ by hybrid conversion process and genetic engineering”. V International Conference on Environmental, Industrial and Applied Microbiology - BioMicroWorld ۲۰۱۳, Madrid (Spain),
- ۹۵- Kowsari M., Zamani M.R. and **Motallebi M.** ۲۰۱۳. “Introduce a genetically marked *Trichoderma fusant* that can be used as a biocontrol and biomonitor”. ۱-۴ Oct. The ۱۱th international symposium on biocontrol and biotechnology, Alexandria , Egypt.
- ۹۶- Akbarzadeh A., Ranaei-Siadat O., **Motallebi M.**, Zamani M.R. ۲۰۱۲. “Increasing of thermal stability of recombinant endoglucanase II by C۳۹۳H mutation in *Pichia pastoris*”. ۴-۶ June, Eighth International Conference on renewable Resources and Biorefineries, Toulouse, France.
- ۹۷- Akbarzadeh A., Ranaei Siadat O., **Motallebi M.**, Zamani M.R., Pourzardosht N., Barshan Tashnizi M., Moshtaghi S., Niknam K.. ۲۰۱۱. “Increasing of thermal stability in recombinant endoglucanase II expressed in *Pichia pastoris*”. ۱۰-۱۴ Oct, ۱۹th International Symposium on Alcohol Fuels, Verona, Italy.
- ۹۸- Kowsari M., **Motallebi M.** and Zamani M. R., ۲۰۱۰, “Expression and characterization of NOVEL Chitinase in *Trichoderma harzianum*”. May ۲۴-۲۶, Shahid Beheshti University, First International and ۹th National Biotechnology Congress of I. R. of IRAN
- ۹۹- Mahmoodian S, Zamani M.R, **Motallebi M.**, Kowsari M, Moghaddassi-Jahromi Z, Jourabchi E, ۲۰۱۰, “Verifying the presence and stability of chimeric chitinase gene in *Trichoderma harzianum*”. ۲nd Iranian Mycological Congress, ۲۳-۲۵ August, University of Tehran, Karaj, Iran.
- ۱۰۰- Kowsari M., Zamani M.R. and **Motallebi M.** ۲۰۱۰, “Towards improved biocontrol activity in *Trichoderma* by protein engineering”. ۲nd Iranian Mycological Congress, ۲۳-۲۵ August, University of Tehran, Karaj, Iran.
- ۱۰۱- Amirzadeh Sh, aminzadeh S, Zamani M.R, **Motallebi M.** ۲۰۱۶, “Theoretical prediction properties of Peptidase T Coh۰۳۳۷.n from Thermophile bacteria *Cohnella sp A. ۰۱*”. ۱th Conference of Chemical Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۱۰۲- Taghavi Z, Aminzadeh S, Minochehr Z, Zamani M.R, **Motallebi M.** ۲۰۱۶, “The bioinformatic study of thermostable protease”. ۱th Conference of Chemical Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۱۰۳- Hajhadia M, Aminzadehb S, Zamani M.R, **Motallebi M.** ۲۰۱۶, “Theoretical prediction properties of carboxypeptidase G۲ Coh۰۱۳۰۲.n from Thermophile bacteria *Cohnella sp A. ۰۱*”. ۱th

Conference of Chemical Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

۱۰۴- Eskandaria M, Aminzadeh S, Zamani M.R, **Motallebi M.** ۲۰۱۶, “Theoretical prediction properties of Zinc metalloprotease Coh۰۲۳۹۷.n from Thermophile bacteria *Cohnella sp A. ۰۱*”. ۱th

Conference of Chemical Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

۱۰۵- Miladia F, Aminzadeh S, Zamani M.R, **Motallebi M.** ۲۰۱۶, “Theoretical prediction properties of Putative carboxypeptidase yodJ Coh۰۲۵۹۴.n from Thermophile bacteria *Cohnella sp A. ۰۱*”. ۱th

Conference of Chemical Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

۱۰۶- Evazzadeh N, Aminzadeh S, Minochehr Z, Zamani M.R, **Motallebi M.** ۲۰۱۶ “Bioinformatic analysis of *Cohnella A۰۱* glutamin amidotransferase”. ۱th Conference of Chemical

Biotechnology, ۷-۹ March, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

Books:

Understanding Genetic Engineering, (Translation with colleague), ۱۹۹۳.

Biochemistry of signal transduction and regulation, ۳nd Edition (Translation with colleagues), ۲۰۰۶.

Molecular Biology-Weaver, ۵th Edition (Translation with colleagues), ۲۰۱۳.

Courses Taught:

BSc. Genetics

Molecular Genetics

MSc. Advanced Genetic Engineering

Genetics of Prokaryotes

Transcription and Translation

Molecular Genetics

PhD. Advanced Prokaryotic cell Biology

Advanced Eukaryotic cell Biology

Memberships:

Iranian Biology Society

Iranian Biotechnology 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:

Distinguished Lecturer of Razi University, ۱۹۹۶

Distinguished Researcher of Razi University, ۲۰۰۰

Distinguished Researcher of Razi University, ۲۰۰۱

Distinguished Researcher of NIGEB ۲۰۱۲

Supervised Student Thesis:

PhD Thesis

- ۱- Hosseinzadeh- Colagar, A. Aug./۲۰۰۵. " Isolation and Cloning of *pgip*^۱ and *pgip*^۲ 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.
- ۲- Zahri S. March/۲۰۰۶. " Molecular study of cellobiohydrolase II (CBHII) from *Trichoderma Parceramosum* and endoglucanase I (EGI) in *T. reesi* PTCC۵۱۴۲". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳- Harighi M.J. July/۲۰۰۶. " Purification, characterization, and gene cloning of ۴۲ kDa chitinase (*chit*^{۴۲}) from *Trichoderma atroviride*(PTCC۵۲۲۰) and its expression in *Escherichia coli*". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۴- Shokouhifar F. Feb/۲۰۱۰. "Construction of Pathogen-Inducible Synthetic Plant Promoter". Plant Biotechnology Dept., National Institute for Genetic Engineering and Biotechnology, Tehran, Iran.

- ۵- Esfahani K., Nov./۲۰۱۰. "Co-transformation of fungal chitinase (*chitε۲*) and glucanase (*bgn۱۳,۱*) genes to potato". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۶- Mohammadzadeh R., Nov./۲۰۱۲. "Transformation of sugar beet by *pgip۱* and *pgip۲* (single and in combination) genes". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۷- Matroodi S., May ۲۰۱۳. "Modification of *chitε۲* Gene Toward Increasing Chitinase Activity". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۸- Akbarzadeh A., Dec./۲۰۱۳. "Cloning and expression of a recombinant fungal endoglucanase in yeast and improvement of its biochemical properties using protein engineering methods". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۹- Kowsari M., ۲۰۱۴. "Molecular improvement of *Chit ε۲* gene to increase antifungal and chitinase activity of the biocontrol agent *Trichoderma harzianum*". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۱۰- Hamzeh Sh., Sep./۲۰۱۴. "Removal of selectable marker gene with inducible Cre/loxP recombination system in transgenic plants". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.
- ۱۱- Ziaei M. March, ۲۰۱۶. "Study of antifungal activity of *pgip۲* and *chitε۲* in combination against *Sclerotinia sclerotiorum* in canola". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.
- ۱۲- Moradyar M. March, ۲۰۱۶. "Study of disease resistance and inducibility of canola using *chitε۲* gene under control of synthetic pathogen inducible promoters". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.
- ۱۳- Zarrin panjeh N. July, ۲۰۱۶. "Co-transformation of fungal chitinase (*chitε۲*) and plant defensin (*Rs-AFP 1*) genes to canola". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.
- ۱۴- Aghazadeh Gholaki R. Oct ۲۰۱۶. "Co-transformation of *Brassica napus l.* by chitinase *ε۲* and *tlp* genes towards improving resistance to *Sclerotinia sclerotiorum*". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.

- ۱- Andalib, A. March/۱۹۹۸. "Molecular, biochemical, and serological study for classification of *Yersinia enterocolitica* of Iran." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲- Arefpour, M.A. Dec./۱۹۹۸. "Grouping of *Fusarium oxysporum* by pathogenicity test and polygalacturonase production". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳- Saffar, B. Dec./۱۹۹۸. "Molecular study and plasmid-curing of *Yersinia enterocolitica* isolates in chicken". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۴- Emamjomeh, A.A. Jan./۲۰۰۰. "Determination of genetic distances by RAPD-PCR, evaluation of drought tolerance criteria analysis of adaptation in chickpea". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۵- Harighi, M.J. Jan./۲۰۰۰. "Classification of *Fusarium oxysporum* isolates by zimogram grouping, overlaying and pectinolytic analysis." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۶- Hosseinzadeh- Colagar, A. July/۲۰۰۰. "Study of pathogenicity, polygalacturonase activity and DNA polymorphism in *Ascochyta rabiei* isolates of Iran". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۷- Rezaei, A. Oct./۲۰۰۰. "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.
- ۸- Rostamian, A. Nov./۲۰۰۰. "Study of Iranian isolates of *Fusarium oxysporum* by vegetative compatibility and RAPD". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۹- Barzegar, A. Mar./۲۰۰۱. "Molecular study of *Xanthomonas* sp. Isolates causal agent of canker in the leaves of sugarbeet". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۰- Chobineh, D. Aug./۲۰۰۱. "DNA polymorphism and protein patterns of *Puccinia striiformis* isolates." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۱- Rezaei, M. Aug./۲۰۰۱. "Pectin lyase activity and DNA polymorphism of *Ascochyta rabiei* isolates." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۲- Fallah, H. July/۲۰۰۲. "Purification and partial characterization of polygalacturonase and study of DNA polymorphism in *Ascochyta rabiei*." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۳- Khoroshi, A.A. Jan./۲۰۰۲. "Molecular study of *Fusarium oxysporum* isolates by protein pattern and DNA polymorphism." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

- ۱۴- Jazayeri, O. Sept./۲۰۰۲. "DNA polymorphism and purification of polygalacturonase enzyme in *Fusarium oxysporum*." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۵- Alani, B. Nov./۲۰۰۲. "Study of DNA polymorphism and purification of PG in *Fusarium oxysporum*." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۶- Seyed Asli N. Aug./ ۲۰۰۳. "Study of chitinolytic activity and partial amplification of chitinase genes in *Trichoderma* isolates". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۷- Bahramsari N. Sep./۲۰۰۳. "Study of glucanase activity and partial amplification of chitinase genes in *Trichoderma* isolates". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۱۸- Onsory H., Sep./۲۰۰۳. "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.
- ۱۹- Habibollahi H., Oct./۲۰۰۳. "Study of PGIP-PG interaction and detection of Soybean *pgip* gene". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۰- Badiezadegan, S., Jan./۲۰۰۴. "Study of PGIP-PG interaction from Bean and *Ascochyta rabiei* and Bean *pgip* gene detection". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۱- Khandan, A., Jan./۲۰۰۴. "Study of endo β ۱-۴ glucanases and their genes in *Trichoderma* sp.". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۲- Yari, R., May/۲۰۰۴. "cellulose enzymes production and detection of endo β -۱,۴ glucanase and β -۱,۴ glucosidase genes in *Cellulomonas* sp.". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۳- Badri M., May/۲۰۰۴. " Antagonistic effects of *Trichoderma harzianum* Δ (T Δ) on some phytopathogenic fungi in sugar beet and detection of chitinase gene". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۴- Salehzadeh, A. Jun/۲۰۰۴. "study of Tomato PGIP interaction with *Fusarium oxysporum* and *Ascochyta rabiei* polygalacturonase and detection of tomato *pgip* gene". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۵- Deilami Z. Aug./۲۰۰۴. "Comparison of inhibitory activity of bean PGIP on polygalacturonase from different phytopathogenic fungi". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۶- Ghoujehghi F. Aug/۲۰۰۴. "study of enzyme production and detection of cellobiohydrolase and β -glucosidase genes in fungal isolates of *Trichoderma*". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.

- ۲۷- Babaei A. May/۲۰۰۵. "The effect of cellulose enzymes produced by different isolates of *Trichoderma* sp. on natural substrates, isolation, cloning and sequencing of *egl* in *Trichoderma reesei*." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۸- Jalali A. May/۲۰۰۵. "Antagonistic effects of *Trichoderma* on *Rhizoctonia solani* in sugar beet and amplification and sequencing of chitinase ۳۶ gene in *Trichoderma harzianum* (T۸)." Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۲۹- Vatandost J. Jan/۲۰۰۶. "Geographic variation in the lesser mouse-eared bat (*Myotis blythii*) along western Zagros Mts. based on morphological characters and molecular markers". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۰- Rajabkhani Z. Jan/۲۰۰۶. "Study of cellulose enzyme activity in mixed cultivation of *Trichoderma reesei* & *Aspergillus niger*, cloning of *eglB* and *bgII* genes from *A. niger*". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۱- Mohammadzadeh R. July/۲۰۰۶. "Isolation, cloning and expression of β -۱,۴ glucanase (*bgnI*) from *Trichoderma virens* in BY-۲ cell suspension". Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۲- Matroodi S. July/۲۰۰۶. " Antagonistic effects of three species of *Trichoderma* on *Sclerotinia sclerotiorum* and cloning of *chit۳۳* gene and cDNA from *T. atroviride*. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۳- Fallahi F. July/۲۰۰۶. "Inhibitory activity of PGIP on polygalacturonase of *sclerotiorum* , isolation and cloning of *pgip* λ and *pgip* γ genes from Juls and Daneshjoo bean cultivars. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۴- Karimzadeh F. July/۲۰۰۶. " Study of inhibitory effect of PGIP on polygalacturonase of *Rhizoctonia solani* , isolation and cloning of *pgip* λ and *pgip* γ genes from Dehghan and Daneshkadeh bean cultivars. Biology Dept., Faculty of Science, Razi Univ., Kermanshah, Iran.
- ۳۵- Yazdanpanah M. Feb./۲۰۰۷. "Amplification, Cloning , Expression & Characterization of *chit۳۶* Gene from *T.atroviride*(PTCC۵۲۲۰)". Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.
- ۳۶- Raoufzadeh Sara. Feb./۲۰۰۷. "Amplification and cloning of DNA and cDNA of beta-glucosidase (*bgl۲*) gene from *Trichoderma harzianum* (T۷). Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.

- ۳۷- Raoufzadeh Somayeh. Feb./۲۰۰۷. "Amplification and cloning of DNA and cDNA of beta-۱,۳ glucanase (*bgn*^{۱۳,۱}) gene from *Trichoderma virens* (۱۰). Microbiology Dept., Islamic Azad University Jahrom branch, Jahrom, Iran.
- ۳۸- Akhgari A. Sep./۲۰۰۷. "Cloning and comparison of nucleotide sequences of *pgip*^۱ and *pgip*^۲ (polygalacturonase - inhibiting protein) genes in three *Phaseolus vulgaris* cultivars and transformation of Canola (*Brassica napus* L) by *pgip*^۲ gene and confirmation of the gene expression in transgenic plant by molecular techniques". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۳۹- Kheiri H.R. March/۲۰۰۸. "Transformation of *bgn*^{۱۳,۱} 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.
- ۴۰- Abedi A. March/۲۰۰۸. "Transformation of *pgip*^۱ 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.
- ۴۱- Lotfi K. Sept./۲۰۰۸. "Transformation of *chit*^{۱۲} 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.
- ۴۲- Kalantari M. Nov./۲۰۰۸. "Transformation of *pgip*^۲ gene from *Phaseolus vulgaris* cv Emerson to sugar beet (Line ۹۵۹۷-P۲۶) and partial characterization of transgenic plants using molecular approaches". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۴۳- Golijani Moghadam R. Dec/ ۲۰۰۸. "Transformation of chitinase ۳۶ gene(genomic DNA) to canola and partial characterization of transgenic plants". Biology Dept., Azarbayjan Univ. of Tarbyatmoallem. Tabriz, Iran.
- ۴۴- Rezanejad H. Dec/۲۰۰۸. "Transformation of chitinase ۴۲ gene (cDNA) to canola and partial characterization of transgenic plants". Biology Dept., Azarbayjan Univ. of Tarbyatmoallem. Tabriz, Iran.
- ۴۵- Shirazi F.T., Feb/۲۰۰۹. "Transformation of *pgip*^۱ gene from *Phaseolus vulgaris* cv Daneshjoo to sugar beet (Line ۹۵۹۷-P۲۶) and partial characterization of transgenic plants using molecular approaches". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۴۶- Etebari Mar/۲۰۱۰. "Isolation and cloning of genomic and cDNA of plant defensin gene." Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

- ۴۷- Ghafarian Aug/۲۰۱۰. "Isolation and cloning of *tlp* gene and its expression in prokaryotic system". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۴۸- Soroor F., Aug/۲۰۱۰. "Transformation of canola by *bgn* (cDNA) and partial characterization of transgenic plants". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۴۹- Moradyar M., Sep./۲۰۱۰. "Transformation of canola by *chit* (genomic DNA) and partial characterization of transgenic plants". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۵۰- Solgi T., Sep./۲۰۱۰. "Transformation of canola by *chit* (cDNA) and partial characterization of transgenic plants". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۵۱- Roohi L., Sep./۲۰۱۰. "Transformation of canola by *bgn* (genomic DNA) and partial characterization of transgenic plants". Biotechnology Dept., Islamic Azad University. Tehran, Iran.
- ۵۲- Zamani A. Dec./۲۰۱۰. "Transformation of canola (*Brassica napus*) by *tlp* gene and structure analysis of transgenic plant against *Sclerotinia sclerotiorum*". Biology Dept., Tarbiat Moalem University, Tehran, Iran.
- ۵۳- Shafeei N. Sep./۲۰۱۱. "Antifungal activity of prokaryotic expressed defensin on some phytopathogenic fungi". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۵۴- Zebardast F. Feb./۲۰۱۲. "Isolation, amplification and cloning of rice (*Oriza sativa*) *ltp* study of prokaryotic expression of LTP on some phytopathogenic fungi". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۵۵- Ahanchian Oct./۲۰۱۳. "Amplification, cloning and transformation of *dabb* gene (genomic DNA) to canola and partial characterization of transgenic plants". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۵۶- Alizadeh A. March/۲۰۱۴. "Isolation, amplification and cloning of tobacco osmotin gene and study of its prokaryotic expression on some phytopathogenic fungi". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۵۷- Zandvakily N. March/۲۰۱۴. "Isolation, characterization and cloning of *Zea mays* *PR1* gene, the Prokaryotic expression of recombinant *PR1* protein and the study of its antifungal activity against some plant pathogenic fungi". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۵۸- Shieh-Beigi Sh. March/۲۰۱۵. "Cloning and prokaryotic expression of Defensin (*Tfgd*) and Study of its antifungal activity". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

- ۵۹- Ataei A. March/۲۰۱۵. "Study of the effect of chbd from *Trichoderma atroviride* in the N-terminal end of Chimer CHIT $\epsilon\gamma$ gene and antifungal activity of prokaryotic expressed Chimer CHIT $\epsilon\gamma$ ". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۶۰- Ardestani N. March/۲۰۱۵. "Cloning and Characterization of Chimer CHIT $\epsilon\gamma$ gene from *Trichoderma atroviride* containing Rhizopus chbd in its carboxylic end and study of its antifungal activity of prokaryotic expressed Chimer CHIT $\epsilon\gamma$ ". Plant Biotechnology Dept., National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
- ۶۱- Ghiasi J. April, ۲۰۱۶. "The evaluation of transient expression of chimeric chit $\epsilon\gamma$ containing ChBD in C-terminal under the control of SP-DDEE synthetic inducible promoter". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran
- ۶۲- Mir Hossaini N. AMarch, ۲۰۱۶. "The evaluation of transient expression of chimeric chit $\epsilon\gamma$ containing ChBD in N-terminal under the control of SP-DDEE synthetic inducible promoter". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.
- ۶۳- Mahmoudian S. March, ۲۰۱۶. "Study of biocontrol activity and growth promotion of genetically engineered *T. harzianum* isolates on *Rhizoctonia solani* in *Phaseolus vulgaris*". Plant Molecular Biotechnology Dept., Agricultural Biotechnology Institute, NIGEB, Tehran, Iran.