Curriculum Vitae



Personal Data

Name	Surname	Date and place of Birth	Nationality	Marital Status
Ashraf	**Gholizadeh**	**1969-Jolfa**	**Iranian**	**married**
Telephone		**Email**		
0098-41-33393924		**aghz_bioch@yahoo.co.in**		

Academic Positions

Title of Position	Field of Specialization	Date		Name of Institution
		From	To	
Associate Professor	**Biochemistry-Molecular Biotechnology**	**2003**	**Continued**	**University of Tabriz**

Educational Background

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
Ph.D	Biochemistry-molecular biotechnology	Dept. Biochemistry, PUSA Institute, New Delhi, India	2003
MSc	Plant Physiology	Dept. Biology, Tabriz University, Tabriz, Iran	1993

BSc	Plant Science	Dept. Biology, Tabriz University, Tabriz, Iran	1991
Title of MSc Thesis: Physiological responses of *Arachis hypogeae* to iron deficiency			
Title of Doctorate Thesis: Cloning and characterization of plant antiviral /ribosome-inactivating proteins from *Celosia cristata*			

Teaching Experiences

Title of Course	Level	Date from	Name of Institution
Biochemistry	BSc	2003	Tabriz University
Genetic Engineering	BSc	2003	Tabriz University
Genetic Engineering I	MSc/ PhD	2003	Tabriz University
Genetic Engineering II	MSc/ PhD	2003	Tabriz University
Advanced Techniques in Biochemistry and Biophysics	MSc/ PhD	2003	Tabriz University
Plant Biochemistry	BSc/MSc	2006	Tabriz University
Advanced Molecular Biology	MSc/ PhD	2012	Tabriz University
Recombination Methods	MSc/PhD	2012	Tabriz University
Biochemistry	MSc/ PhD	2012	Tabriz University

Publications

Title of Paper	Place of publication	Date
Antioxidant activity of antiviral proteins from Celosia cristata I	*J. Plant Biotech. Biochem.*	2004
Modifications in the purification protocol of Celosia cristata an proteins leads to protein that can be N-terminally sequenced	*Prot. Peptide Lett.*	2004

Cystatins may confer viral resistance in plants by inhibition of v induced cell death phenomenon in which cysteine proteinases a active. Molecular clonong and expression	*Biotechnol. Appl. Biochem.*	2005
Cloning and expression of a small cDNA fragment encoding a s antiviral peptide from Celosia cristata in E. coli	*Biochemistry+*	2005
Step- by Step morpho-physiological responses of *Arachis hypogaea* L. cv NC.2 to iron deficiency	*Plant, Soil Environ.*	2007
Molecular cloning of an actino- bacterial ClpS gene from *Celosia cristata.*	*Russ. J. Plant Physiol*.	2008
Molecular cloning and expression in *Escherichia coli* of an active fused Zea mays L. D-amino acid oxidase.	*Biochemistry +*	2009
Identification of a cDNA clone from *Celosia cristata* sequences of nonstressed and stressed leaves.	*Russ. J. Plant Physiol*	2009
Molecular detection of drought stress inducible gene from *Zea mays* L.	*Asian J. Plant Sci.*	2009
Carborundum dependent entrance of *Eco*RI restriction enzyme into plant cells and specific cleavage of genomic DNA	*Ind J. Exp. Biol.*	2009
Induced expression of *EcoRI* endonuclease as an active maltose-binding fusion protein in *Escherichia coli.*	*Microbiology*	2010
A molecular evidence for the presence of methylobacterial-type Fe siderophore receptor in *Celosia cristata.*	*Plant Soil Environ.*	2010
Identification of DUF538 cDNA clone from *Celosia cristata* expression library in stressed and non-stressed leaves.	*Russ. J. Plant Physiol.*	2010
Elevated Activity of Phenylalanine Ammonia Lyase in the Antioxidative System of Salt-Challenged Maize Leaves	*Brazil J. Plant Physiol.*	2010
RT-PCR Detection of *COP1* and *SINAT5* E3 Ubiquitin ligases Expression in Different Organs of *Zea mays* L	*Cereal Res. Commun.*	2011
Overexpression, purification and functional characterization of *Celosia* clpS fused protein in *Escherichia coli*	*Appl. Biochem. Microbiol.*	2011

Expression of Barley Leaf Cysteine Proteinase Inhibitor as an Active Fusion Protein in *Escherichia coli* Cells.	*Cereal Res. Commun.*	2011
Prediction of the presence of transcriptionaly active bacterial-type transposase gene in *Celosia cristata*.	*Aust. J. Basic Appl. Sci.*	2011
Callus induction and plant regeneration from an ancient and forgotten crop plant *Vicia ervilia* L.	*Russ. Agri. Sci.*	2011
Effects of drought on the activity of phenylalanine ammonia lyase in the leaves and roots of maize inbreds.	*Aust. J. Basic Appl. Sci.*	2011
Heterologous expression of *Celosia* DUF538 protein and its bio-molecular consequences	*Protein J.*	2011
Functional Fusion Expression of Sunflower multicysteine in *E. coli* and its comparison with a single domain cystatin	*Ind. J. Biochem. Biophys.*	2011
Cisgenic inhibition of the potato cold induced phosphorylase L gene expression and decrease in sugar contents	*Afri. J. Biotechnol.*	2011
Estimation of D-amino acid oxidase gene expression in different organs of drought-challenged maize	*Sci. Res. Essays*	2011
Rapid and high efficiency regeneration from potato (*Solanum tuberosum* L.) using thidiazuron as cytokinin source	*JFEA*	2011
The genome wide cloning of maize meiotic recombinase Dmc1 and its functional structure through molecular phylogeny.	*Genet. Mol. Res.*	2011
Antioxidation profile in the leaves of maize inbreds: elevation in the activity of phenylalanine ammonia lyase under droyght stress.	*J. Plant sci*.	2011
Molecular analysis of maize cystatin expression as fusion product in *Escherichia coli*	*Physiol. Mol. Biol. Plants*	2012
Isolating barley B1 Hordein gene promoter and using sequencing analysis for the identification of conserved regulatory elements by bioinformatics tools.	*Afri. J. Biotechnol.*	2012
Comparative Fusion Expression of Maize SINAT5 in Two Different Strains of *Escherichia coli*	*Genet. Mol. Res.*	2012

Molecular evidence for the contribution of methylobacteria to the pink color production in pink colored plants	*J. Plant Interact.*	2012
DUF538 protein superfamily is predicted to be the potential homologue of bactericidal/permeability increasing protein in plant system.	*The Prot. J.*	2013
Differential fusion expression and purification of a cystatin in two different bacterial strains	*Appl. Biochem. Microbiol.*	2013
Maltose-binding protein switches programmed cell death in plant cells	*Cytol. Genet.*	2013
Dividend of lignin and non-lignin dependent protective responses in protein fraction-interacted plant tissue	*J. Plant Studies*	2013
Molecular priming of a ribosome-inactivating protein sequence and identification of its structural homology with RNA-binding proteins.	*Biochemistry*	2013
Prediction of structural homology between bactericidal/permeability increasing protein of innate immune system and esterase-type hydrolases.	*Int. J. Biosci..*	2014
Potential involvement of maize ribosome-inactivating protein in root development	*Bangl. J. Bot.*	2014
The potential involvement of D-amino acids in the activity of proteolytic system.	*Cytol. Genet.*	2014
The gene and the enzymatic activities of *Arabidopsis* D-amino Oxidase in salty media	*Genet. Plant Physiol.*	2014
Differential interactions of D-amino acids with fused cysteine proteinase and cystatin	*Appl. Biochem. Microbiol.*	2015
Differential interactions of L-amino acids with fused cysteine proteinase and cystatin	*Appl. Biochem. Microbiol.*	2016
DUF538 protein superfamily is predicted to be chlorophyll degrading enzyme in plants	*Physiol. Mol. Biol. Plants.*	2016

Differential expression of a cysteine proteinase and cystatin pair as side-by-side fusion forms in *Escherichia coli* .	*Cytol. Genet.*	2016
Plants water soluble chlorophyll binding proteins act as enzyme-inhibitor pair	*Russ. J. Plant Physiol.*	2016
DUF538 protein superfamily is predicted to be the functional homologue of water soluble chlorophyll binding proteins in plants	*PNAS, India Section B*	2016
Identification and real time expression analysis in plants of a transcript containing hrepes viral protein domain.	*Plant Cell Biotech. Mol. Biol.*	2016
Cloning of chloroplastic rbcL gene region for plastidial vector in *Medicago sativa* L.	*Biol. Froum*	2016
Effects of RNAi-mediated gene scilencing of starch phosphorylase L and starch associated R1 on cold induced sweetening in Potato .	*J. Hourti. Sci. Biotechnol*.**,**	2016
Correlation between the chlorophyll contents and duf538 gene expression level in *Celosia cristata*.	*Biotechnology: An Indian Journal*	2016
Differential expression of SINAT5 gene in growth stages of *Zea mays L*.	*J. Basic and Appl. Res. Int.*	2016
Real time based RT-PCR detection of DUF538 gene expression in drought challenged *Celosia*.	*Biochem. Mol. Biol. Lett.,*	2016
Designing, Docking and heterologous expression of a modified anti-HER2 affibody molecule	*Under review*	2017
Isolation and purification of a ribosome inactivating protein from *Celosia Plumosa*.	*Under preparation*	2017
Effects of ribosome inactivating protein on root growth efficiency in plants.	*Under preparation*	2017

Books

Title	Publisher	Date
Recombinant Fusion Proteins Technologies	Tabriz University	2017

Master and Doctorate Thesis Supervisions

Title of Thesis	Level	Name of student
Library construction from plasmid DNA from *B. thuringiensis*	MSc	N. Darvishi
Genomic library preparation of *M. piperita* chloroplast	MSc	S. Khashman
Efficiency of restriction enzymes in genomic library construction of *Malus. Domestica. Borkh*	MSc	N. Ghiasi
Genomic library preparation of olive chloroplast	MSc	R. Akbari
Molecular cloning of seed -specific genes promoters	MSc	H. Shirian
Molecular cloning of sugar beet root-specific promoter	MSc	Z. HasanzadehLeili
Molecular cloning of helianthus seed-specific promoter	MSc	Z. Bahamin
Maize synaptonemal complex gene silencing using RNAi vectors in tobacco	PhD	F. Etedali
Cloning of maize seed-specific genes promoters	MSc	F. Basiri
Construction of RNAi vector carrying canola fatB and fad2 gene and tobacco transformation using agro-bacterium	MSc	S. DelpasandKhabbazi
Increasing potato resistance against sweetening under cold stress using RNAi technology	PhD	M. Kamerani
Optimization potato tissue culture protocol and genetic transformation via agro-bacterium	PhD	A. Yousefpour

Identification and cloning of barley seed-specific promoters	MSc	K. Nalbandi
RNAi vector and the agro-bacterium prepared exclusively for the production of maize seed containing low phytate	MSc	A. Babazadeh
Isolation of high molecular weight Gluten subunit genes (HMW-GS)	MSc	M. Ayari
Preparation of RNAi constructs carrying maize 19 kDa alpha-zein genes	MSc	M. Bastami
Linum usitatissimum transformation by micro-projectile	MSc	F. Ahmadi
Identification and molecular cloning of plastidial vectors flanking regions from helianthus	MSc	H. Gharakhani
Identification and molecular cloning of plasidial vectors flanking regions from lettuce	MSc	M. Gholipour
Identification and molecular cloning of plasidial vectors flanking regions from alfalfa	MSc	S. Khalili
Designing and construction of specific RNAi vector for ornithine decarboxylase gene from tobacco	MSc	M. Derakhti
Designing and construction of specific RNAi vector for putrescine N-methyl transferase gene from tobacco	MSc	S. Mosalrezaai
Cloning of maize ubiquitin gene promoter	MSc	A. Babazadeh
cloning of gpd gene promter in shelly edible fungi Molecular	MSc	A. Bakhsheshi
Designing and construction of the sequences encoding cinnamon expression plastid	MSc	H. Farahi
Molecular cloning of granule-bound starch synthase enzyme-specific promoter from potato	MSc	F. Saedi
Cloning of the patatin gene-specific promoter from potato	MSc	M. Aghapour
Designing and cloning of an affibody coding region	MSc	N. Salmaniantabasi
Spectroscopic studies on the interaction of hydrazone derivatives with calf purified DNA molecule	MSc	F. Shakeri

Studies on the expression of the genes in response to salinity in *Salicornia herbacea*	PhD	S. Ahmadi
Gene silencing of polyphenol oxidase and Glucosyltransferase from *Silubum marianum*	PhD	Y. Mohammadi
Production of tobacco transplatomic for recombinant human beta-interferon	PhD	A. Faizi
Identification and cloning of of plastidial vectors flanking regions from nitraria	MSc	N. Fattahi M
Identification and cloning of of plastidial vectors flanking regions from salicornia	MSc	M. Habibi

Research Activities

Title of Projects	Place of Work	Dates	
		From	To
D-amino acid gene expression analysis in drought-challenged maize plant	Tabriz University	2005	**2006**
Molecular cloning of mRNA encoding ClpS from *Celosia cristata* plant	Tabriz University	2006	**2006**
Interaction of plant tissues with *Eco*RI DNA restriction enzyme	Tabriz University	2006	**2007**
Preparation of genetically engineered bacteria encoding RM system and its bio-molecular consequences evaluation	Tabriz University	2007	**2008**
Identification of iron siderophore producing bacteria in *Celosia cristata*	Tabriz University	2008	**2009**
Analysis of E3 ubiquitin ligase gene expression in different organs of maize	Tabriz University	2009	**2009**

Preparation of geneticully engineered bacteria encoding maize E3 ubiquitin ligase gene	Tabriz University	2009	**2010**
Studies on the morpho-molecular interactions of *Eco*RI DNA restriction enzyme with tobacco leaf tissues	Tabriz University	2010	**2010**
Over-expression of sunflower cystatin molecule in bacterial system	Tabriz University	2010	**2011**
In silico studies on the interaction of plant recombinant cysteine proteinase inhibitors with proteinases	Tabriz University	2010	**2011**
Effects of growth regulators on the regeneration process of potato plant	Tabriz Azad University	2010	**2011**
Preparation of genetically engineered cold–challenged starch resistant to phosphorylase enzyme	MSRT	2008	**2012**
Isolation and purification of ribosome-inactivating proteins from Iranian *Celosia* plants	INSF	2012	**2015**
Studies on the expression of D-amino acid oxidase gene in drought-challenged maize	Tabriz University	2011	**2012**
Studies on the effects of methylobacteria on color production in plants	Tabriz University	2012	**2013**
Isolation of Helianthus protein fraction and evaluation of its morpho-molecular effects on fern leaves	Tabriz University	2012	**2013**
Effects of D-amino acid metabolism on the activity of proteolytic system in plants	Tabriz University	2012	**2013**
Comparison of human BPI proteins with plants homologous	Tabriz University	2012	**2013**
Effects of salt stress on D-amino acid oxidase gene expression in *Arabidopsis thaliana*	Tabriz University	2013	**2014**
Comparison of human BPI proteins with hydrolytic enzymes	Tabriz University	2013	**2014**
Maltose-binding protein act as cell-death switching factor in glutinosa	Tabriz University	2013	**2014**

Differential fusion expression analysis of a cystatin and cysteine proteinase pair	Tabriz University	2014	**2015**
Molecular interaction between the fusion forms of a cystatin and cysteine proteinase pair	Tabriz University	2014	**2015**
Studies on the structure and function of DUF538 protein family in plant system	Tabriz University	2014	**2015**
Identification and expression analysis of herps viral protein gene from Celosia	Tabriz University	2015	**2016**
Stage to stage SINAT5 gene expression studies in Celosia	Tabriz University	2015	**2016**
Comparison of DUF538 proteins with water-soluble chlorophyll binding proteins	Tabriz University	2015	**2016**
Structural- functional studies on plants water soluble chlorophyll binding proteins	Tabriz University	2016	**On going**
Structural- functional studies on plants ribosome-inactivating proteins	Tabriz University	2016	**On going**

Research interests

Designing and identification of affibody molecules	Tabriz University	2015	**2017**
Designing and identification of molecular interactions	Tabriz University	2015	**2017**
Structural-functional identifications of plants photosynthetic system	Tabriz University	2015	**2017**
Structural-functional studies on plants DUF538 protein superfamily	Tabriz University	2015	**2017**
Structural-functional studies on plants ribosome-inactivating proteins	Tabriz University	2011	**2017**

Papers Presented at National and International Scientific Assemblies

Title of Paper	Title and Place of Assembly	Date
Cloning of bacterial-type integrase mRNA from *Celosia cristata*	7th Iranian National Biochem. Biophys. Conf. Tabriz-Iran	2004
Application of plasmid DNA patterns in pest control	5th Iranian National Biotechnology Conf. Tehran-Iran	2005
Chloroplast genome isolation and identification from *Mentha piperita*	2th Iranian National Bio. Cell. Mol. Conf. Kerman-Iran	2005
In vitro effects of hormonal shocks on the shooting of *Vicia ervilia*	10th Iranian National Genetic Conf. Tehran-Iran	2006
Introducing rooting protocol from regenerated shoots of *Vicia ervilia*	1th National Biology Conf. Talesh-Iran	2006
Cloning of napain seed-specific promoter from canola	1th National Agricultural Technology Conf. Rasht-Iran	2006
Seed-specific promoter cloning from soybean	6th National Biotechnology Conf. Tehran-Iran	2007
In vitro effects of cycocel on microtubule production in potato cultures	11th National Genetic Conf. Tehran-Iran	2008
Production of folic acid-rich plants by over-expression of the key biosynthetic genes	7th National Biotechnology Conf. Gorgan-Iran	2008
RNAi vector and Agro-bacterium for the production of low phytate maize seeds	5th Agricultural Researches Conf. Kordestan-Iran	2008
Isolation and cloning of D-Hordein promoter	7th National Biotechnology Conf. Tehran-Iran	2011
Construction of seed specific RNai construct for suppression of 19kD alpha zein genes from *Zea mays* L.	7th National Biotechnology Conf. Tehran-Iran	2011

Cloning of 5' UTR and signal peptide of gbss gene in Agria putato	7th National Biotechnology Conf. Tehran-Iran	2011
Cloning of gbss gene promoter from Agria putato	7th National Biotechnology Conf. Tehran-Iran	2011
Cloning of tuber specific patatin promoter with UTR region and signal peptide	7th National Biotechnology Conf. Tehran-Iran	2011
Cloning of tuber specific patatin class I promoter from potato cultivated in Iran	7th National Biotechnology Conf. Tehran-Iran	2011
Cloning of high molecular weight Glutenin gene specific promoter from Durum wheat	7th National Biotechnology Conf. Tehran-Iran	2011
Invitro culture of currently cultivated flax in Iran	7th National Biotechnology Conf. Tehran-Iran	2011
Differential *invitro* responses of two cotton varieties in Iran	12th Genetic congress, Tehran, Iran	2012
Preparing RNAi construct for fad2 gene fragment of *Brassica napus* as a step towards gene silencing	International plant breeding congress, Antalya, Turkey	2013
Growth stage dependent detection of maize E3 type ubiquitin ligase gene expression	2th International Genetic congress, Tehran, Iran	2016
Identification of partial mRNA containing UL31 viral protein domain from *Celosia cristata* expressed sequences	2th International Genetic congress, Tehran, Iran	2016
Spectroscopic studies on the interaction of a hydrazo derivative with calf thymus DNA	2th International Genetic congress, Tehran, Iran	2016
Ribosome-inactivating proteins from plants	Under preparation	2017

Awards, Honorary Degrees, Medals and Positions

Title of Award, Medal, Position	Issuing Authority	Country	Year
Excellency (Top researcher)	Tabriz university	Iran	2011
Excellency (Top researcher)	Tabriz university	Iran	2006
Merit medalist	PUSA Institute	India	2003