وسمة تعالي

CURRICULUM VITAE



Mohammad Babashamsi

Personal Information:

Name: Mohammad Babashamsi Marital status: Married Children: 2 Nationality: Iranian Date of birth: 1958 Place of birth: Damavand,Iran Address: Avicenna Research Institute(ARI), Shahid Beheshti University,Tehran IRAN. Tel: 22432020 E-Mail: babashams@avicenna.ac.ir babashamsi@acecr.ac.ir

University Education:

Level	Description	University	Years	
PhD	Biochemistry	try Banaras Hindu 1988-92		
		University.India		
MSc	Bio-organic chemistry	Kanpur University,	1985-87	
		India		
BSc	Chemistry	Bangalore University,	1980-84	
		India		

Major professional services:

Title	Place	Duration
Researcher in biochemistry	Jahad- Shahid Beheshti University of Medical Sciences (J-SBUM).	1994-2006
	Jahad- Avicenna Research Institute (ARI).	Since 2006
Lecturer of biochemistry	Dep of biochemistry, Banaras Hindu University, India.	1993
	Dep of biology, science and research unit, Islamic Azad university, Tehran.	2003-2005
	Dep of medicinal chemistry, Faculty of pharmacy,	
	Shahid Beheshti University of Medical Sciences, Tehran.	2005
Supervision of various MSc and PhD	Alzahra university Islamic Azad university.	Since 2001
thesis	Khatam university.Payamenoor University.Shahid Beheshti University of Medical Sciences.	

Conducting short courses and workshops in biotechnology	J-SBUM & ARI	Since 1997
Publishing Research Articles in journals. Presentation of papers in conferences and delivering scientific speeches in journal clubs	Local and international journals and conferences.	Since 1989

Administrative responsibilities:

Title	Place	Duration
Head - Medical diagnostic reagents &	J-SBUM	1994-2010
Biological products Research group(MBR)		
Head – Department of Immunochemistry	ARI	Since 2009

Memberships:

Title	Place	Duration
Member of medical committee scientific	Jahad daneshgahi(Iranian Academic Center for	Since 2001
council	Education, Culture and Research(ACECR).	
Member of scientific council of MBR	J-SBUM	1999-2010
Member of scientific council of ARI	ARI	Since 2007
Member of antigen & antibody engineering	ARI	Since2006
Research group		
Member of project management council	ACECR	2001-2005
Member of Iranian society of Biotechnology	Tehran- IRAN	Since1999
Member of Iranian society of Biochemistry	Tehran- IRAN	Since 2001
Member of Iranian society of Genetic	Tehran- IRAN	Since 2003
Member of Iranian society of Proteomics	Tehran- IRAN	Since 2009

Honors and distinctions:

Title	Reference	Year
Golden core award of Ministry of science,	Iranian Ministry of science, research and technology,	2003
research and technology for ranking the	Bulletin of the Research week, page 40.	
selected national researcher of the		
year 2003.		
Certificate of appreciation for practical	Annals of MBR, page 14.	2003
biochemical techniques tought.		
Certificate of appreciation for varification of	ACECR, Research and technology deputy.	2002
Research projects in medical committee		
scientific council.		
Certificate of appreciation from Applied	Annual report, J-SBUM.	1997
medical sciences Research Center.		

Scientific Experiences:

Subject	Place	Year
Solid phase bio-organic synthesis	Dep of chemistry, Kanpur university	1987
Enzyme purification, and immobilization	Dep of biochemistry, Banaras Hindu University	1989
Neurotransmitter and drug residue analysis by HPLC, GC and Bioassay	Dep of biochemistry, Banaras Hindu University	1991
A six months training of gene cloning and expression	Pasture institute of Iran	1994
Development of liquid and dry chemistry rapid diagnostic tests.	J-SBUM	1994-2000
Production, purification and conjugation of antibody and development of ELISA & PCR- ELISA tests.	J-SBUM and ARI	2001-2003
Production of recombinant proteins (streptokinase, VEGF)	ARI	Since 2004
Mutation detection by PCR-RFLP & DHPLC methods.	ARI	2008
Human plasma proteome analysis	ARI	

Teaching Experiences:

Subject	Place	Year
Advanced Biochemical Methods to M-Sc students of Iran Medical university	ARI	2001-2005
Biotechnology to M-Sc students of Khatam university	ARI	2002
Biochemistry	Islamic Azad University	2003-2005
Advanced Biochemistry to PhD students	Faculty of pharmacy, Shahid Beheshti medical sciences university.	2005

Research projects:

Subject	Granted by	Duration
A study of acetylcholine and related enzymes in	Banaras Hindu University	1989-1992
cases of certain neurological disorders.		
Durification of Dom 111 and claning the CAT gaps in	J-SBUM & office of scientific and industrial	1994
Purification of Bam H1 and cloning the CAT gene in		1994
PUC 19.	studies of presidency	
Isolation and purification of human C-reactive	J-SBUM	1995
protein		
Development of a diagnostic kit for determination	J-SBUM	1996
of phosphorus in biological fluids.		
Development of a diagnostic kit for determination	J-SBUM	1996
of chloride in biological fluids.		
Development of a diagnostic kit for determination	J-SBUM	1997
of creatinin in biological fluids. (Kinetic & End point)		
Synthesis of stannous fluoride for fluoride gel	J-SBUM	1998
formulation.		

National project (Synthesis, extraction &	Iranian management and planning	2001-2004
····	Iranian management and planning	2001-2004
purification of streptokinase and pancreatin.	organization	
Development of a simple method for purification	ACECR-Deputy of research & technology	2001-2003
of human C-reactive protein & production of a		
diagnostic kit for CRP.		
Immobilization of streptokinase and determination	ACECR-Deputy of research & technology	2004
of its antibody in thrombolytic therapy		
Isolation of streptokinase gene, cloning ,	ACECR-Deputy of research & technology	2005-2007
expression and purification of recombinant protein		
Development of ELISA method for determination of	ARI	2006-2007
CRP in serum and folecular fluid of patients under		
treatment by ICSI & IVF.		
Efficiency assessment of DHPLC and PCR_RFLP	ACECR-Deputy of research & technology	2008-2010
methods in detection of C677T mutation in MTHFR		
gene.		
Evaluation of the efficiency of high pressure	ACECR-Deputy of research & technology	2011-2012
immuno-affinity chromatography method for high		
abundant serum proteins depletion.		
Production of recombinant vascular endothelial	Vice presidency of sciense and technology	2013-2016
growth factor in E.Coli		
Low molecular weight human plasma proteome	ARI	On progress
analysis in endometriosis by LC-MS/MS utilizing an		
immunoaffinity protein depletion. Production of antibody against Carcinoembryonic	ACECR-Deputy of research & technology	On progress
antigen (CEA) and development of a new ELISA	listen zopary of resolution a rearrangy	en progross
method for quantitation.		

Publications:

Papers & Short communications

Authors	Title	Year	Journal	Issue No.	Pages
M.Babashamsi, H.P.Pandey and R.H.Singh	A biological age rating scale.	1989	Biome	4(2)	117-24
M.Babashamsi	Immobilization of plasminogen in agarose for rapid detection of streptokinase.	2000	Iranian biomedical journal	4(4)	170
M.H.Razavian, <u>M.Babashamsi</u> and M.R.Nejadmoghaddam	A Single step Purification of Plasminogen from human Plasma.	2003	Proc 3 rd Nation cong Biotech of Iran	3	241-244
M.Babashamsi	Large scale Hybridoma cell culture.	2003	Bulletin of Monoclonal aintibody	1(6)	2-5
<u>M.Babashamsi</u>	Single domain and single chain antibody	2004	Bulletin of Monoclonal antibodiy.	2(12)	3
M.R.Nejadmoghaddam M.Babashamsi, and M.H.Modarresi	Streptokinase gene, isolation, cloning and overexpression of recombinant protein.	2006	Pejouhesh Quarterly research Journal.	30(3)	245-252
M.R.Nejadmoghaddam, M.H.Modarresi, <u>M.Babashamsi</u> , and M.Chamankhah	cloning and overexpression of active recombinant fusion streptokinase, a new approach to facilitate purification	2007	Pakistan Journal of Biological Sciences	10(13)	2146- 2151

M.Soheili, M.R.Nejadmoghaddam, <u>M.Babashamsi</u> , J.Ghasemi and M.Jeddi Tehran.	Detection of Legionella pneumophilla by PCR-ELISA Method in Industrial Cooling Tower Water.	2007	Pakistan Journal of Biological Sciences	10(22)	4015- 4021
Arefi. S <u>, Babashamsi M</u> , Shariatpanahi. P,Savadi Shirazi	The effect of induction of ovulation and ovarian puncture on CRP levels in patients undergoing IVF/ICSI	2009	Medical Journal of Reproduction & Infertility	10(1)	25- 31
M.Babashamsi, M.H.Razavian and M.R.Nejadmoghaddam	Production and purification of streptokinase by protected affinity chromatography	2009	Avicenna Journal of Medical Biotechnology	1(1)	47-51
Nejadmoqaddam, M.R; Hadavi,R; Babashamsi, M ; Niakan, M	A rapid and efficient method for transformation of Escherichia coli.	2009	Daneshvar Bimonthly research Journal.	16(80)	71 - 76
M.R.Nejadmoghaddam, M.H.Razavian and <u>M.Babashams</u> i	Evaluation of Streptokinase Production Potential by Group C Streptococcal Strain H46A in Batch Culture and Bactericidal Effect of Hexyl Resorcinol	2009	Journal of Babol University of Medical Sciences « Quarterly Research Journal »	11(4)	13-18
Arefi. S <u>, Babashamsi. M</u> , Shariatpanahi. P, Asgharipour, p. Zeraati. H	C-reactive protein level and pregnancy rate in patients undergoing IVF/ICSI	2010	Iranian Journal of Reproductive Medicine	8(4)	197-202
Karimi. Z, Babashamsi. M , Asgarani. E, Niakan. M and Salimi. A	Fermentation, Fractionation and Purification of Streptokinase by Chemical Reduction Method.	2011	Iranian Journal of Microbiology	3(1)	42-46
Karimi. Z, Babashamsi. M , Asgarani. E and Salimi. A	Development of an immunoaffinity method for purification of streptokinase	2012	Avicenna Journal of Medical Biotechnology	4(3)	142-147
S. Sahraian, M. Babashamsi, P. Reza- Soltani, H. Najmabadi, K. Kahrizi, S. Hemmati Gorgani,	Serotonin Transporter Polymorphism (5-HTTLPR) and Citalopram Effectiveness in Iranian Patients with Major Depressive Disorder	2013	Iranian Journal of Psychiatry	8(2)	86-91
A. Salimi and M.Babashamsi	Cloning and optimization of soluble vascular endothelial growth factor 165 expression in Escherichia coli	2016	Avicenna Journal of Medical Biotechnology	8(1)	23-28
M.M.Babashamsi, S. Halalkhor, H. M. Firouzjah, H.Parsian, S.F. Jalali, and M.Babashamsi	Association of ATP-Binding Cassette Transporter A1 (ABCA1)-565 C/T Gene Polymorphism with Hypoalphalipoproteinemia and Serum Lipids, IL-6 and CRP Levels	2017	Avicenna Journal of Medical Biotechnology	9(1)	38-43

Abstracts:

Authors	Title	Year	Journal/Proceeding	Issue No.	Page
M.Babashamsi, A.Ram and H.P.Pandey	Acetylcholine response in wound healing rats.	1989	Proceed 14 th Indian symp biophys	March 11	77
M.Babashamsi and H.P.Pandey	Pharmacological and biochemical studies of Acetylcholine and cholinesterase in certain stress disorders.	1991	Proceed 10 th Iranian cong physiol pharmacol	Dec 9	315
M.Babashamsi, H.P.Pandey and R.H.Singh	A study of acetylcholine and cholinesterase changes in epilepsy.	1993	Proceed 80 th Indian science cong	3	22

M.Babashamsi	Activity of acetylcholine system	1993	Proceed 4 th semin	Feb 10	5
W.Bubushamsi	in epilepsy.	1770	Iranian students in	10010	°,
			India		
M.Babashamsi and	Simple method for isolation of	2000	Proceed 1 st nati cong	1	433-
M.Moradi	human C-reactive protein		biotech		437
M.Babashamsi, M.Niakan	Determination of histamine and	2001	Proceed 6 TH cong	Oct 22	67
and E.Yeganeh	histidine in preserved fish by	2001	biochem	00122	07
ana ziroganon	HPLC				
M.Niakan, F. Torkestani, N.F	Relevance of mycoplasma	2003	Abstract book, Middle	Dec 10	
allah, and M.Babashamsi	homonis and ureaplasma in		East Fertility Society,		
	infertile females of Tehran		10 th annual meeting		
	infertility clinics				
F.Salehzadeh, M.Niakan	Determination of antibiotic	2002	Abstract book, The 10 th	Jan 5	274
and M.Babashamsi	residues in meat by HPLC		cong infec disease &		
			tropical medicine		
M.Babashamsi	Role of free Acetylcholine in	2002	Iranian Journal of	2(5)	63
W.Bubushamsi	convulsion	2002	Neurology	2(0)	00
M-Babashamsi	Synthesis and analysis of GnRH	2003	Bulletin of Reproduction	5(59)	2
	agonists.		and Infertility.		
M.Niakan, T.Zahraei, M.Ma	Preparation of antisera aginst	2003	Clin chem Lab med	41	398
hzonie and M.Babashamsi	group D of salmonella				
M.Babashamsi,	Purification of streptokinase by	2003	Proc 3 rd Nation cong	4	89-92
M.H.Razavian and	protected affinity		Biotech of Iran		
M.R.Nejadmoghaddam M.Babashamsi,	chromatography Isolation and cloning of	2004	Proceed 7 th Iranian	1	113
M.H.Modarresi and	streptokinase gene in E.Coli	2004	cong biochemistry		115
M.R.Nejadmoghaddam	Stroptokindso gono in 2.00ii		bong biobininitity		
M.Babashamsi,	Optimization of streptokinase	2004	Proceed 7 th Iranian	1	112
M.H.Razavian and	secretion and its rapid		cong biochemistry		
M.R.Nejadmoghaddam	purification				
M.H.Razavian	Optimization of plasminogen	2004	Proceed 7 th Iranian	1	134
M.Babashamsi, and	purification by affinity		cong biochemistry		
M.R.Nejadmoghaddam	chromatography, utilizing a new				
	method for EACA measurement				
M.R.Nejadmoghaddam	Optimization of streptococcus C	2004	Proceed 6 th Iranian	Mar 5	92
M.Babashamsi, and	batch culture and elevation of		cong microbiology		
M.H.Razavian	its potency for production of				
	streptokinase		46		
M.Babashamsi and N Lotfi	Purification of ascetic fluid CRP	2005	Proc 4 th Nation cong	1	338
gheshlaghi.	and developing a reagent for its		Biotech of Iran		
	measurement in serum.				
M.Babashamsi,	Evaluation of biochemical	2005	Iranian journal of	1(1)	131
H.P.Pandey and R.H.Singh	changes of cholinergic system in epileptic patients.		Biochemistry& Molecular biology		
M.R.Nejadmoghaddam	Extraction, cloning, sequencing	2005	Iranian journal of	1(1)	95
M.Babashamsi, and	and expression of H46A	2005	Biochemistry&	1(1)	75
M.H.Modarresi	streptokinase gene.	0001	Molecular biology	0 (0)	450
Babashamsi M.and Maleki M.	Development of ELISA and colorimetric assay of antibody in	2006	Iranian journal of	2(3)	158
101.	patients under treatment with		pharmaceutical		
	streptokinase.		sciences		
	Developetion of according out	2006	Iranian journal of	2(3)	155
Nejadmoqaddam	Production of recombinant	2000	Iranian journal of	2(3)	
Nejadmoqaddam M.R.,Babashamsi M.,Modaresi M.H.	fusion streptokinase and its purification in a single step	2000	pharmaceutical	2(3)	

Babashamsi M., Nejadmoghaddam MR. Modaresi MH.	Production, purification and assay of native and recombinant streptokinase	2006	Iranian journal of pharmaceutical sciences	2(3)	282
Shariatpanahi P. Babashamsi M. Arefi.S	Development of ELISA method for determination of CRP in serum and folecular fluid of patients under treatment by ICSI & IVF.	2006	Proceed 13 th national and 2 nd International conference of biology	1	316
Araghi S, Babashamsi M., Nejadmoghaddam MR. Modaresi MH. Amirmozaffari N.	Extraction and cloning of mutant streptokinase in order to reduse its immunogenicity.	2006	Proceed 13 th national and 2 nd International conference of biolog	1	393
Arefi S, Babashamsi M. Shariatpanahi P, Tochmechi R, Sadeghpour Tabaei A, Ebadi P.	CRP Level and pregnancy rate in patients undergoing IVF/ICSI	2008	Iranian Journal of Reproductive Medicine	6- Suppl	1
Solaimani M, Babashamsi M, Yaghmaei B, Sadeghi MR, Rayegani M, Karimi Z.	Efficiency assessment of DHPLC and PCR_RFLP methods in detection of C677T mutation in MTHFR gene.	2010	Proceed 16 th national and 4 th International conference of biolog		206
Karimi Z, Babashamsi M, Asgarani E, Salimi A.	Construction of an immunoaffinity column based on protein A-anti SK(IgG) for purification of streptokinase.	2010	Proceed 16 th national and 4 th International conference of biolog		123
Babashamsi M, Karimi Z, Salimi A.	Production of a fusion recombinant streptokinase and purification by affinity and immunoaffinity methods.	2011	Proceed 7 th National Biotech cong of Iran		
M.Babashamsi and A. Salimi	Evaluation of the efficiency of multiple affinity removal system for high abundant plasma proteins depletion.	2013	Iranian journal of Biotechnology	Vol 42, No 11	24
M. M.Babashamsi, S. Halalkhor, M. Babashamsi, S. F Jalali	Association of 565 C/T polymorphism in ABCA1 gene with serum C-Reactive Protein levels and incidence of atherosclerosis	2015	Proceed 3 rd National Cong On Cellular And Molecular News in Non- Contagious Diseases		200
M.Babashamsi and A. Salimi	Efficient expression of recombinant Streptokinase: cloning, expression and purification	2015	Proceed 1 st Internation and 9 th National Biotech Congress		P-1107
M.Babashamsi and A. Salimi	Production, optimized refolding and purification of insoluble recombinant human VEGF-165	2015	Proceed 1 st Internation and 9 th National Biotech Congress		P-925

Conference Presentations:

Subject	Place	Year
Acetylcholine response in wound healing rats.	14 th Indian symposium of biophysics,Varansi, India	1989
Pharmacological and biochemical studies of Acetylcholine and cholinesterase in certain stress disorders	10 th Iranian cong physiol pharmacol Ahwaz, Iran.	1991
Activity of Acetylcholine system in epilepsy.	4 th semin Iranian students in India. Poona, India.	1993
A study of acetylcholine and cholinesterase changes in epilepsy.	Proceed 80 th Indian science cong. Goa, India	1993
Stability of proteins	2 nd seminar of the applied medical sciences research center. Tehran, Iran.	1998
Synthesis of small peptide hormones	7 th seminar of the applied medical sciences research center. Tehran, Iran.	1999

Simple method for isolation of human C-reactive	Proceed 1 st nati cong biotech. Tehran, Iran.	2000
protein Immobilization of plasminogen in agarose for rapid	1 st Iranian cong biochem biophys Tehran, Iran	2000
detection of streptokinase.		
Streptokinase and infertility.	40 th scientific seminar of the Avesina Research Center. Tehran, Iran.	2000
Determination of histamine and histidine in preserved fish by HPLC	6 TH cong biochem. Tehran, Iran.	2001
Determination of antibiotic residues in meat by HPLC	10 th cong infec disease & tropical medicine Tehran, Iran	2002
Role of free Acetylcholine in convulsion	9 th Iranian cong neurology & clin physiol Tehran, Iran	2002
Preparation of antisera aginst group D of salmonella	Euromedlab 2003, Barcelona, Spain.	2003
Synthesis and analysis of GnRH agonists.	90 th scientific seminar of the Avesina Research Center. Tehran, Iran.	2003
Isolation and cloning of streptokinase gene in E.Coli	7 th Iranian cong biochemistry. Ahwaz, Iran	2004
Optimization of streptokinase secretion and its rapid purification	7 th Iranian cong biochemistry. Ahwaz, Iran	2004
Optimization of plasminogen purification by affinity chromatography, utilizing a new method for EACA measurement	7 th Iranian cong biochemistry. Ahwaz, Iran	2004
Optimization of streptococcus C batch culture and elevation of its potency for production of streptokinase	6 th Iranian cong microbiology. Tehran, Iran	2004
Peoduction and Purification of streptokinase by protected affinity chromatography	Saudi Bio – 2004 International Conference. Jeddah , Saudi Arabia.	2004
Production and Optimized Purification of C- Reactive Protein(CRP) and its Antibody & Development of a sensitive ELISA Test for CRP	Saudi Bio – 2004 International Conference. Jeddah , Saudi Arabia.	2004
Purification of ascetic fluid CRP and developing a reagent for its measurement in serum.	4 th Nation cong Biotech of Iran. Kerman. Iran	2005
Evaluation of biochemical changes of cholinergic system in epileptic patients.	8 th Iranian congress of biochemistry and first international congress of biochemistry & molecular biology. Tehran, Iran	2005
Development of ELISA and colorimetric assay of antibody in patients under treatment with streptokinase.	10 th Iranian pharmaceutical sciences conference(TPSC 2006). Tehran, Iran	2006
Production of recombinant fusion streptokinase and its purification in a single step	10 th Iranian pharmaceutical sciences conference(TPSC 2006). Tehran, Iran	2006
Production, purification and assay of native and recombinant streptokinase	10 th Iranian pharmaceutical sciences conference(TPSC 2006). Tehran, Iran	2006
Development of ELISA method for determination of CRP in serum and folecular fluid of patients under treatment by ICSI & IVF.	13 th national and 2 nd International conference of biolog. Tehran, Iran	2006
Extraction and cloning of mutant streptokinase in order to reduse its immunogenicity.	13 th national and 2 nd International conference of biolog. Tehran, Iran	2006
	1 st Iranian cong of Endometriosis	2008
	2 nd international congress of Proteomics	2009
Efficiency assessment of DHPLC and PCR_RFLP methods in detection of C677T mutation in MTHFR gene.	16 th national and 4 th International conference of biolog. Mashhad, Iran	2010
Construction of an immunoaffinity column based on protein A-anti SK(IgG) for purification of streptokinase.	16 th national and 4 th International conference of biolog. Mashhad, Iran	2010
Production of a fusion recombinant streptokinase and purification by affinity and immunoaffinity methods.	7 th National Biotech cong of Iran, Tehran, Iran.	2011
Evaluation of the efficiency of multiple affinity removal system for high abundant plasma proteins depletion.	13 th Iranian congress of biochemistry and 5 th international congress of biochemistry & molecular biology. Tehran, Iran	2013

Association of 565 C/T polymorphism in ABCA1 gene with serum C-Reactive Protein levels and incidence of atherosclerosis Efficient expression of recombinant Streptokinase: cloning, expression and purification Production, optimized refolding and purification of insoluble recombinant human VEGF-165		3 rd National Cong On Cellular And Molecular News in Non-Contagious Diseases, Babol, Iran.			
		1stInternationand9thNationalBiotechCongress, Tehran, Iran.1stInternationand9thNationalBiotechCongress, Tehran, Iran.Iran.ItalItalItalItal			2015 2015
M.Babashamsi.	Laboratory manual of advance biochemical methods	ed 1998	J-SBUM		
M.Babashamsi. Research Interests:	,	ed 1998	J-SBUM		

Epitope mapping, peptide design and antibody formation.

Recombinant proteins(Diagnostic & pharmaceutical), their modification, engineering and purification.

Nano-tag combination to biomolecules.