

## In the name of God the Beneficent the Merciful

### CURRICULUM VITAE

March 2018

#### Personal Information:

Name: Ali

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Place of Birth : Karaj

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#### Education:

1-2018-present:**PhD in Microbiology**, Faculty of Basic Sciences, Qom Islamic Azad University, Qom, Iran.

*Thesis: Sucrose Ester as a Co-vaccine Carbohydrate Based for assessment of Protectivity of Influenza Virus A/H1N1 protein Conserved Domains As a vaccine Candidate in mouse model Balb/c*

2-2013-2015:**M.Sc. in Developmental Biology**, Faculty of Biological Science, Islamic Azad university Tehran, North Branch (TNB), Tehran, Iran.

*Thesis: Evaluation of intranasal delivery system for thiolated chitosan/influenza vaccine Nano carrier as an adjuvant to improve immune responses in mice model BALB/C*

3- 2009-2012: **B.Sc.in Chemical technology and Engineering** University of Technology & Applied Science, Tehran, Iran.

4- 1994-1996: **Laboratory Science Technician** Tehran University of Medical Science, Tehran, Iran

#### Employment:

2013-Present: Excellent expert of Laboratory, Influenza and other Respiratory viruses Department, Pasteur Institute of Iran, Tehran.

2009-present: Researcher & Internal manager of Influenza and other Respiratory viruses Department, Pasteur Institute of Iran, Tehran.

2007-2008: Researcher and Internal manager of Department of Recombinant products, Production And Research Complex, Pasteur Institute of Iran, Karaj, Iran.

1991-2007: Researcher and Internal manager of Quality Control Department, Production & Research Complex, Pasteur Institute of Iran, Karaj, Iran

1990-1991: Expert of Laboratory, Bacterial vaccine & Antigen Production Department, Production And Research Complex, Pasteur Institute of Iran, Karaj, Iran

### Teaching Experiences:

- 1- 2019-2022: Theory and Practice of Biological courses, Faculty of Basic Sciences, Islamic Azad University, East Tehran Branch, Tehran, Iran.
- 2- 2010-2019: Theory and Practice of Laboratory Animals Experimentation, To Students of Summer School Course in Pasteur Institute of Iran
- 3- 2010-2019: Theory and Practice of Endotoxin Detection by Limulus Amebocyte Lysate (LAL) Method To Students of Summer School Course in Pasteur Institute of Iran.
- 4- 2014: Theory and Practice of Introductory Laboratory Course in Virology To Students of Summer School Course in Pasteur Institute of Iran.
- 5- 2013: Theory and Practice of Cell Culture & Introduction bioreactors , To Students of Summer School Course in Pasteur Institute of Iran.
- 6- 2005: Practical Course of Quality Control, To Students of Pasteur Institute of Iran.
- 7- 2005: Theory and Practice of Quality Controls of Drugs, to PhD Students of Pasteur Institute of Iran.

### Books:

2014: Hadadian SH, Noori Imanlou D, Hosseini M, **Torabi A.** Mabodi K, Torabi E, Torabi D Azimi Movahed E  
(2014) **Medical Microbiology**, Ofogh Door Publisher, Tehran. ISBN: 978-600-7167-52-6

### Published Papers:

1) Ali Torabi, Behrokh Farahmand, Mohammadreza Zolfaghari, Fatemeh Fotouhi, Mohsen Zargar  
Evaluation of immunogenicity of recombinant influenza nucleoprotein (NP) for universal vaccine  
Tehran Univ Med J (TUMJ) 2022 February; 79(11): 880-91

2) Mehrnaz Forqani, Seyed Masoud Hosseini, Behrokh Farahmand, Maryam Saleh, Hadiseh Shokouhi,  
Ali Torabi & Fatemeh Fotouhi Combination of conserved recombinant proteins (NP & 3M2e)  
formulated with Alum protected BALB/c mice against influenza A/PR8/H1N1 virus challenge  
Biotechnology Letters volume 43, pages 2137–2147 (2021)

3) Elahe Abdolalipour, Mehran Mahooti, Ali Salehzadeh, **Ali Torabi**, Seyed Reza Mohebbi, Ali Gorji,  
AmirGhaemi  
Evaluation of the antitumor immune responses of probiotic *Bifidobacterium bifidum* in human  
papillomavirus-induced tumor model  
Journal of Gorgan University of Medical Science / 88 Winter 2013 / Vol 14 / no 4  
<https://doi.org/10.1016/j.micpath.2020.104207>

4) Mohammad-Taghi Moradi, Ali Karimi, Fatemeh Fotouhi, Soleiman Kheiri, and **Ali Torabi**  
In vitro and in vivo effects of *Peganum harmala* L. seeds extract against influenza A virus

Avicenna J Phytomed. 2017 Nov-Dec; 7(6): 519–530.PMCID: PMC5745536,  
Somayeh Zamani, Fatemeh Fotouhi Chahouki, Zahra Nourmohammadi , Saeideh Sadeghi Neshat  
, Vahideh Mazaheri , Ali Torabi , Behrokh Farahmand  
Production of polyclonal antibody against Tehran strain influenza virus(A/H1N1/2009) hemagglutinin  
conserved domain (HA2): brief report Tehran Univ Med J (TUMJ) 2015 October;73(7):535-9

5)SolmazDehghan, Mohsen Tafaghodi, Tina Bolourieh, VahidehMazaheri, **Ali Torabi**, Khalil  
Abnous, MasoumehTavassoti Kheiri,  
*Rabbit nasal immunization against influenza by dry-powder form of chitosan nanospheres  
encapsulated withininfluenza whole virus and adjuvant*  
International Journal of Pharmaceutics/ 2014/ no. 475/ pages 1-8

SiavashChalabianiMsc . FatemehFotouhiPhD . Maryam SalehMsc .BehrokhFarahmandPhD  
mohammad Ali Alavi-EsfahaniMsc . MansorehTabatabaianBsc . **Ali Torabi**Bsc  
Prokaryotic Production of Influenza Virus M2 Protein Fused to LeishmaniaMjorHSPIn Order to  
Preppare an Effective Flu Vaccine  
Journal of Esfahan Medical School / Vol32 / No. 288/ 1<sup>st</sup> week, August 2014

6)Elaheh Anvar, Seyed Masoud Hosseini, Masoumeh Tavasoti Kheiri, Vahideh Mazaheri , Kurosh  
Fazaei, Maryam Shabani, Effat Alizadeh, Mansoureh Tabatabaiean, **Ali Torabi**  
Serological Survey of Avian Influenza (H9N2) Among Different Occupational Groups in Tehran and  
Qazvin Provinces in IR Iran . Jundishapur J Microbiol. 2013; 6 (4): e5441. DOI: 10.5812/ jjm.5441.

7)FatemehRousta. Fatemehfotohi. Amir Ghaemi, BehnazHeidarchi,VahidehMazaheri, Maryam  
Fazeli, **Ali Torabi**  
*Effects of aqueous Echinaceapurpurea extract on munogenicity of DNA vaccine Encoding M2 gene of  
Influenza Virus.*  
Journal of Gorganuniversity ofMedical Science /88 Winter 2013 / Vol14 / no 4

### **Presentation, Abstracts and Meeting Attended:**

1 )Abdoli A, Biglari P, Hosseini M, Jamali A, NezamKheirabadi F, Rahmatollahi H, Saleh M,  
TavasotiKheiri M, **Torabi A**,  
*“The effect of chronic stress on efficiency of influenza gene vaccines to induce immune re-sponses  
against influenza virus in mouse model”*,  
14<sup>th</sup> International Iranian Congress of Microbiology, Tehran-Iran, 28-30 August 2013

2)VahidehMazaheri, PeyvandBiglari, SaeedehDarzi, MansourehTabatabaiean, **Ali Torabi**,  
MasoumehTavassotiKheiri, FatemehFotouhi,  
*“ Surveillance of Influenza virus in Iran (Tehran, Zanjan, Semnan and Markazi) in 1390”*, The 5<sup>th</sup>  
International congress of laboratory&clinic (blood disorders), Iranian scientific association of  
clinicallaboratoty, 15-18 January 2013

3)VahidehMazaheri . saeedehDarzi . PayvandBiglari .Fatemehfotohi . Mina khodadadNazari .**Ali  
Torabi**, FahimehMusavi , MasoomehTavasotiKheiri  
*Comparative survey of Influenza types and subtypes in susceptible respiratory samples in The years*

2010 and 2011 in 5 provinces of Iran.

The 5<sup>TH</sup> International and 10<sup>th</sup> National Congress on Quality Improvement in Clinical Laboratory , April 23-26 , 2012 , Tehran, Iran

4) Mazaheri V, Fotouhi F . Kheiri MT. Anvar E, Tabatabaeian M, **Torabi A.**Nazari M  
*Efficacy of Influenza Vaccine in Iranian Health workers and Healthy persons*  
11<sup>th</sup> International Congress of Immunology and Allergy .April 26-29, 2012 , Tehran, Iran

5 ) Farahmand B, Kheiri MT, Khodabandeh M, Mahboudi F, Fotouhi F, Mazaheri V, Tabatabaian M, Saleh M .**Torabi A** .Kazemi N. Montazeri  
*“Expression of N-glycosylated form of Influenza hemagglutinin in Recombinant Escherichia coli”*  
Iranian congress of Virology.18-20 October 2012, university of TarbiyatModarres ,Tehran, Iran

6)AlaviEsfahani MA. FotouhiF.Saleh M .Ghaemi A . ChlabianiS Farahmand B. **Torabi A.**Kheiri M  
*Universal Vaccine Candidate : Overexpression and Characterization of Influenza Virus M2 protein in Prokaryotic System .*  
Iranian congress of Virology.18-20 October ,2012, Tehran, Iran

7) ChlabianiS .Fotouhi F. Saleh M. AlaviEsfahani MA. GhaemiA .Farahmand B. **Torabi A.**Kheiri MT  
*Subunit Vaccine against Influenza Virus: A Vaccine based – on Influenza Virus M2 protein and Leishmania Major HSP70 Gene .*  
Iranian congress of Virology.18-20 October - 2012 Tehran, Iran,

8) YosefiA .FotouhiF.Hossainzadeh S .TavassotiKheiriM .Farahmand B, Mahboudi F, Montazeri S, MousaviF.**Torabi A** .  
*Expression of antigenic determinant of hemagglutinin large subunit of novel Influenza Virus in insect cells*  
Iranian congress of Virology.18-20 October 2012, university of TarbiyatModarres ,Tehran- Iran

9)B.Farahmand, M,Khodabandeh, F.Mahboudi, F.Fotouhi, , F.Barkhordari,M.SalehM.Tabatabaeian, **A.Torabi**, M.T.Kheiri,  
*Cloning and Expression of Influenza Virus A (H1N1) Haemagglutinin large subunit in Escherichia coli.*  
International Biotechnology Symposium 2010, 14-18 Sep, Rimini, Italy (As a Poster Presentation).

10) Mazaheri V Nazari M, Musavi F, Tabatabaeian M, **Torabi A** , Kheiri MT ,Fotouhi F.  
*Prevalence of Swine Influenza (Novel A/H1N1) in patients susceptible to influenza.*  
3<sup>rd</sup> Congress of Laboratory & Clinic Pediatrics, 1-3 December 2010, Tehran, Iran

11) Mazaheri V Nazari M, Musavi F, Tabatabaeian M, **Torabi A** , Kheiri MT ,Fotouhi F.  
*Epidemiological survey of Novel A/H1N1 Influenza in susceptible respiratory samples.*  
3<sup>rd</sup> Congress of Laboratory & Clinic Pediatrics, 1-3 December 2010, Tehran, Iran

12) Hosseini SM , Hadadian S , Farzad R , Talaie H, Bageri K, NouriInanlou D, Mahboudi K, **Torabi A**

*Serology method of Brucella detection in 10 minute with centrifuging*

The 1<sup>st</sup> National Iranian conference of Applied Microbiology ,Alzahra university – July 2007

13) Hadadian S, Nowroozi M , AseminiaA, Farzad R , NouriInanlou D, Hosseini S.M , **Torabi A**  
Maboudi K

*Production of recombinant insulin in industrial level.*

The 1<sup>st</sup> National Iranian conference of Applied Microbiology ,Alzahra university – July 2007

14)AtiyehAkbari, FatemehFotouhi, MehrdadHashemi, NedaJalili, Maryam Saleh, KhadijehAkbari, Abbas Mohammadpour, **Ali Torabi**, Zahra Kianmehr, BehrokhFarahmand. Prokaryotic Expression of Influenza Virus Hemagglutinin Stalk Domain(HA2) in Order to Universal Subunit Vaccine Production, *7<sup>th</sup> International Iranian Congress of Clinical Microbiology (ICCM), Shiraz, Iran, 2013, 19-21 Oct, p:164 (As a Poster Presentation).*

15) NedaJalili, FatemehFotouhi, MehrdadHashemi, Maryam Saleh, AtiyehAkbari, KhadijehAkbari, Zahra Kianmehr, **Ali Torabi**, Maryam Ghahramani, Abbas Mohammadpour, BehrokhFarahmand. Prokaryotic Expression of Influenza A (H1N1) Hemagglutinin Small Subunit 3M2e chimeric Protein for Subunit Vaccine Development, *7<sup>th</sup> International Iranian Congress of Clinical Microbiology (ICCM), Shiraz, Iran, 2013, 19-21 Oct, (As a Poster Presentation).*

16)Chalavi M, Jamali A, Abdoli A, Shapori R, Tavasotikheiri M, Akbari KH, Biglari P, Rahmatollahi HR, **Torabi A**, Sadati SF, “Incorporation of Aluminum Hydroxide and CpG ODN Motifs into Influenza Vaccine Formulation improves protective immunity against influenza virus challenge”, *7<sup>th</sup> International Iranian Congress of Clinical Microbiology, The 68<sup>th</sup> Comprehensive collection of books in RASANEH TAKHASSOSI, Shiraz-Iran, 19-21 October 201*

17) Hossainzadeh S, Fotouhi F, Farahmand B, Saleh M, Yousefi A, **Torabi A**, Tavassoti-Kheiri M. Production of Recombinant Influenza Virus A (H1N1) Hemagglutinin Protein in insect cells, one step closer to subunit vaccine. *6<sup>th</sup> Iranian Congress of Virology 2012, 18-20 Oct, TarbiatModares University (As a Poster Presentation).*

18) B.Farahmand, M.T.KheiriM.Khodabandeh, F.Mahboodi, F.Fotouhi, V.Mazaheri, M.Tabatabaian, M.Saleh, **A.Torabi**, N.Kazemi, S.Montazeri. *Expression of N-glycosylated form of Influenza Hemagglutinin in Recombinant Escherichia coli. 6<sup>th</sup> Iranian Congress of Virology 2012, 18-20 Oct, TarbiatModares University (As a Poster Presentation).*

19)ChalabianiC, FotouhiF, Saleh M,AlaviEsfahani MA, Ghamei A, Farahmand B, **Torabi A**, TavasotiKheiri M. Subunit vaccine against Influenza Viruses: Vaccine based-on Influenza Virus M2 Protein and *Leishmania major* HSP70 Gene. *11<sup>th</sup> International Congress of Immunology&Allergy, Iranian J. Immunology Vol 9, April 2012 (As a Poster Presentation).*

20)B.Farahmand, M.Khodabandeh, F.Mahboodi, F.Fotouhi, M.Saleh, F.Barkhordari, M.Tabatabaeian, **A.Torabi**, M.T.Kheiri, *Cloning and Expression of Influenza Virus A(H1N1)Haemagglutinin large subunit in Escherichia coli. International Biotechnology Symposium 2010, 14-18 Sep, Rimini, Italy (As a Poster Presentation).*

## Professional Experience:

### **Biochemistry and Immunology Techniques, Molecular Biology such as:**

Immunochemistry Technique, Downstream and Upstream processing in Fermentation & Bioreactors, Protein and Nucleic acid extraction and purification, Isolation of DNA and RNA, Western Blotting, Protein assay, Protein-ElectroElution, Affinity chromatography, Gel filtration Chromatography, High Pressure Liquid Chromatography(HPLC), Recombinant DNA and Gene Cloning, Protein Electrophoresis and SDS-PAGE, Primer Designation, PCR and Real-time PCR techniques, Thin-layer chromatography (TLC)

### **Quality Controls of Drugs such as :**

Quality control of pharmaceutical raw materials , Quality control of pharmaceutical packaging material, Maintenance of laboratory equipment , Chemical & Biochemistry tests, Atomic Absorption & Accessories,

### **Quality control of vaccines such as :**

Sterility Test , pyrogenicity Test , Safety Test, Toxicity Test & Immunogenicity Test & Animal challenge , Endotoxin detection by LAL method.

### **Microbiological Experience such as:**

Preparation of Bacterial strains , promotion Cultivation, Isolation and Identification of pathogens, bacteria and fungi, Diagnostic of parasites in clinical samples, Preparation of culture media, Quality control media and cell culture media, Identification of typical and atypical Mycobacteria( according to WHO and IUATLD methods), Preparation of bacterial strains as (ATCC).

**Instrument operation ability of:** Calibration & Maintenance of laboratory Equipment, Air Laminar flow Hood and Cabinet , Microscope (TEM, SEM, Inverted, Fluorescence and Compound Microscopes), ELISA microplate washer & reader, Thermo-cycler, pH meter, Autoclave System, Ultra-sonicator, CO<sub>2</sub> Incubator and shaker Incubator, Oven, UV Transilluminator, Spectrophotometer (Nanodrop and picodrop), Centrifuge (Refrigerated, Micro- and Ultra-Centrifuges)

### **Computer and IT Skills:**

The International Computer Driving License (ICDL), General Software: Microsoft Office (Excel, Word, Access, Power point), Photoshop , Programming Software (Visual Basic, End note, SPSS )

## Research project co-worker:

- 1) Construction of a chimerical expression vector carrying influenza virus M2 protein and HSP70 Gene and protein expression in COS-7 and/or HEK 293 cells (2010)
- 2) Production of M2-HSP70 chimeric protein containing influenza virus M2 protein and Leishmania Major HSP70 in prokaryotic system (E.coli) and assessment of its Immunogenicity in mice (2012)

- 3) Expression of Human Influenza Hemagglutinin in BES (Baculovirus Expression System) for subunit vaccine production
- 4) Molecular analysis of Influenza A virus "amantadine" resistance in Pediatric Infectious Research Center's outpatients during Fall and Winter of 1387
- 5) Virosome construction from Influenza virus to include Nucleoprotein gene as DNA Vaccine against the virus
- 6) Influenza Virus detection and identification
- 7) Military laboratory services for patient care-co-worker with Health Reference Laboratory of Iran
- 8) Evaluation of mucosal and systemic immunogenicity of some nanospheres and adjuvants After nasal administration of Influenza whole virus to Rabbit

### Workshops&Training Courses:

- 1) Influenza Virus Detection work shop", held in Influenza Department, Institute Pasteur of Iran, August 8th To September 2th 2015
- 2) Influenza Virus Detection work shop", held in Influenza Department, Institute Pasteur of Iran, August 15th to September 2th 2014
- 3) Research on Influenza Vaccine production methods work shop", held in Influenza Department, Institute Pasteur of Iran, August 15th to September 2th 2014
- 4) "5<sup>th</sup> International Congress of Laboratory and Clinic" Razi Congress Hall, Tehran-Iran 15-18 Jan 2013.
- 5) Research on Influenza Vaccine production methods work shop", held in Influenza Department, Institute Pasteur of Iran, 19-29 Aug 2013
- 6) Influenza Virus Detection work shop", held in Influenza Department, Institute Pasteur of Iran, 19-29 Aug 2013
- 7) English Course for Adult Learners", Upper-Intermediate 3, 42 hours, 21 Sessions, held in Institute Pasteur of Iran, 7 Aug 2013
- 8) Biosafety workshop", Institute Pasteur of Iran, 25 Nov 2013
- 9) Workshop of Mammalian Expression technologies , conducted on 2-4 February 2013 held by Technology department. Institute Pasteur Tehran, Iran
- 10) English Course for Adult Learners", Upper-Intermediate 2, 42 hours, 21 Sessions, held in Institute Pasteur of Iran, 18 May 2013

- 11)"Committee for Management of Quality Assurance& Education Steering Committee" (2012&2013),  
Pasteur Institute of Iran.
- 12) Theory and Practice of Methods for isolation and purification of proteins Institute Pasteur of Iran, March 2012
- 13)"5<sup>th</sup> International & 10<sup>th</sup> National Congress on Quality Improvement in Clinical Laboratories", 23-26 April 2012, Tehran, Iran.
- 14)The5<sup>th</sup> International and the 10<sup>th</sup> National Congress on quality improving in clinical laboratory", Iranian Association Clinical Laboratory Doctors, Razi Congress Hall, Tehran-Iran, 23-26 April 2012,
- 15)Training course of basic concepts of Calibration equipment", held in Institute Pasteur of Iran, 2012
- 16)English Course for Adult Learners", Intermediate 3, 42 hours, 21 Sessions, held in Institute Pasteur of Iran, 10 March 2012
- 17)Green Chemistry and medicine Institute Pasteur of Iran, March 2012
- 18) "Symposium on World Thalassemia Day", ShahidBeheshti University, 6 May 2012
- 19)The second Influenza Virus Detection work shop", held in Influenza Department, Institute Pasteur of Iran, 5-10 sept 2012
- 20) The second Research on Influenza Vaccine production methods work shop", held in Influenza Department, Institute Pasteur of Iran, 12-17 sept 2012
- 21)Influenza Virus Detection work shop", held in Influenza Department, Institute Pasteur of Iran, 3-11 Sep 2012
- 22)Research on Influenza Vaccine production methods work shop", held in Influenza Department, Institute Pasteur of Iran, 3-11 Sep 2012
- 23)"20<sup>th</sup> Iranian congress on Infectious diseases and tropical medicine" , Iranian Society of Infectious Diseases and tropical medicine, 31 Dec 2011- 4 Jan 2012
- 24)Sixth Iranian congress of virology, 17-19 October 2012, TarbiatModares University-Tehran
- 25)The forth International and the ninth National Congress on quality improving in clinical laboratory", Iranian Association Clinical Laboratory Doctors, Razi Congress Hall, Tehran-Iran, 20-23 April 2011
- 26)Quantitative Real Time PCR workshop " , Institute Pasteur of Iran, Iranian molecular medicine network, 12-13 February 2011



- 27)The 3<sup>th</sup> International congress of laboratory and clinic (blood disorders), Iranian scientific association of clinical laboratoty , 21-23 Dec 2011
- 28)The 3<sup>rd</sup> International and the 8<sup>th</sup> National Congress on quality improving in clinical laboratory”, Iranian Association Clinical Laboratory Doctors, Razi Congress Hall, Tehran-Iran, 20-23 April 2010
- 29)"The Third Iranian Proteomics Congress Pasteur Institute of Iran" 26-27 May, 2010, Tehran, Iran.
- 30)Biosafety workshop ” , Institute Pasteur of Iran, 3 February 2010
- 31)Effective Communication workshop” , Institute Pasteur of Iran, Tajrish branch of Pasteur Institute of Iran, Nov. and Dec 2010
- 32)19<sup>th</sup> Iranian congress on Infectious diseases and tropical medicine” , Iranian Society of Infectious Diseases and tropical medicine, 25-29 Dec 2010
- 33)The second International and the seventh National Congress on quality improving in clinical Laboratory”, Iranian Association Clinical Laboratory Doctors, Razi Congress Hall, Tehran-Iran, 20-23 April 2009
- 34) “The Fifth National Congress on Virology and First Congress on Iranian Vaccine”, Iranian
- 35)Association Virology and Razi Association and research on Immunoglobulin and Vaccine’s production , Karaj-Iran, 2-4 May 2009
- 36)“18<sup>th</sup> Iranian congress on Infectious diseases and tropical medicine” , Iranian Society of Infectious Diseases and tropical medicine, 12-16 Dec 2009
- 37)Workshop of Biotech from beginning to the market conducted on 4 may 2008 Production & Research Complex, Pasteur Institute of Iran, Karaj, Iran
- 38)“Training course on cell culture techniques, freezing and multiplication of different cell lines”, Cell Banking department of Pasteur Institute of Iran, July 2008
- 39)The 5<sup>th</sup> National Congress on Improving the Quality in Clinical Laboratories: Bacteriology (7), Pulmonary Diseases, Tehran, Iran, 22<sup>nd</sup> of Jan 2007.
- 40) Quality Control of Biotechnology Products (June 2007), NRGEB
- 41)"Experimental Design and Optimization of Biotechnology Process Using Statistical Methods" 24-26 April 2006 Organized by National Institute of Genetics Engineering and Biotechnology and Higher Council of Biotechnology, Tehran, Iran.
- 42)The Seminar of "Introduction to ISO/IEC 17025:2005", 17<sup>th</sup> April 2006, Tehran.
- 43)Workshop of Sampling which was held on 29/Jan/2006.2006 by head of the Production & Research Complex, Pasteur Institute of Iran, Karaj, Iran
- 44)"The GLP and GMP Courses" organized by Quality Assurance Dept. of Pasteur Institute of Iran, March- April 2006, Tehran, Iran.

- 45)the workshop on "2<sup>nd</sup> Advanced Industrial Biotechnology Course" 28-31 May 2006, Tarbiat Modares University, Tehran, Iran.
- 46)Workshop of basic course of quality control for biological products management , conducted on Apr 15th to may 21th.2006 held by . Institute Pasteur of Iran,
- 47). Workshop of An introduction to the planning for project management , conducted on feb 14.2006  
by analysis & system improvement office. Institute Pasteur of Iran,
- 48)workshop on "Diagnostic methods of Pertusis and Diphteria ”, 16-17 July,2005, Pasteur Institute of Iran, Tehran.
- 49)"The First International Symposium of Molecular Technology: Advanced Biotechnology"  
29-31 Aug 2005, ShahidBeheshti University, Tehran, Iran.
- 50)"Micro Satellite Analysis & SSCP Based on Mutation Screening" 4-5 Oct 2005, Pasteur Institute of Iran, Tehran, Iran.
- 51)the workshop on “Epidemiology, Diagnosis and Treatment of *Helicobacter pylori*”, 16 June, 2005, Pasteur Institute of Iran, Tehran.
- 52)Workshop on “Education and set-up Fermentor software” 1997, Pasteur Institute of Iran, Tehran.

### Social and Scientific Activity:

Member of Iranian Society of Chemical Engineering

### Language Skills:

Persian (Native)

English (well)

Arabic (Intermediate)