

CURRICULUM VITAE

PERSONAL INFORMATION:

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Name:

Vahideh Mazaheri, MD, MPH

Address:

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PRESENT AND PREVIOUS POSITIONS:

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2005-present Influenza Research laboratory of Pasteur Institute of Iran

2001-2005 Laboratory of Arboviruses and Viral Haemorrhagic Fevers of Pasteur Institute of Iran (National Center), responsible for serological part.

2001 as a Medical doctor in Vaccination department of Pasteur Institute of Iran.

EDUCATION & COURSES:

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2006 -2009 MPH in School of public health and institute of public health
Researches of Tehran University of medical sciences

Thesis: Geographical distribution of animal bite, disease and death of rabies in seaside of Khazar sea (Mazandaran,Gilan,Golesten)

1993-2000 MD in Chaharmahal & Bakhtiari (Shahrekord) university of

Medical sciences

Thesis: study of clinical and paraclinical symptoms and signs of intervertebral disk herniation in operated cases in Kashani hospital of Shahrekord 1997-1999

Member of society:

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- The medical council of the Islamic Republic of Iran
- The member of Biosafety committee of Pasteur Institute of Iran
- The Quality Control responsible of Influenza Research Lab of Pasteur Institute of Iran

SKILLS AND RESEARCH AREAS:

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- ✓ Enzyme-linked immunosorbent assay (ELISA)
- ✓ Hemagglutination Adsorption(HA)
- ✓ Hemagglutination Inhibition(HI)
- ✓ Single Radial Immunodiffusion(SRID)
- ✓ Real Time PCR

PARTICIPATE IN THE FOLLOWING ACTIVE RESEARCH PROJECTS AND

GRANTS:

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- Studies of Crimean- Congo Haemorrhagic Fever in Iran,
✓ F o u n d e d b y : Pasteur Institute of Iran a n d Swedish Institute for Infectious Disease Control, 2003
- Seroepidemiological survey of Crimean-Congo Heamorrhagic Fever (CCHF) in Iran in suspected domestic animals and patients and ticks separated from livestock by molecular method (RT-PCR) and specific ELISA
✓ Founded by: Pasteur Institute of Iran a n d Karolinska Institute of Sweden, 2003

- Laboratory analysis of the aetiology of death among patients with clinical symptoms of viral haemorrhagic fever “CCHF disease” (with negative serological response) by molecular method (detection of the presence of viral genome in their serum).
- ✓ Founded by: Pasteur Institute of Iran,2004

- Immunogenicity of liposome containing influenza nucleocapsid protein and envelope glycoproteins;vaccine development approach
- ✓ Founded by: Pasteur Institute of Iran,2006

- Molecular analysis of influenza A virus resistance to antiviral drug “amantadine” in Iran
- ✓ Founded by: Pasteur Institute of Iran,2009

- Virosome construction from influenza virus to include Nucleoprotein gene as DNA Vaccine against the virus
- ✓ Founded by: Pasteur Institute of Iran,2009

- 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
- ✓ Founded by: Pasteur Institute of Iran,2012

- Suspending MDCK cell line for large scale culture of Influenza virus
- ✓ Founded by: Pasteur Institute of Iran,2012

- Expression of HCV F protein Core+1 in Baculovirus expression system
- ✓ Founded by: Pasteur Institute of Iran,2013

- Application of Multiplex Real Time PCR in order to detect respiratory viruses in clinical samples collected from acute respiratory infected patients
- ✓ Founded by: Pasteur Institute of Iran,2015

- Reconstituting a recombinant chimeric influenza virosome associated with VSV as a delivery system for insect and mammalian cell lines
- ✓ Founded by: Pasteur Institute of Iran,2016

- Prokaryotic production and protectivity assessment of chimer Protein consisting of Influenza Virus conserved Domains of Hemagglutinin , Matrix protein (3M2e-HA2) and Nucleoprotein (NP) in mouse model
- ✓ Founded by: Pasteur Institute of Iran,2016

- Production and protectivity assessment of intranasal administration of polyclonal antibodies against whole Influenza A/H1N1virus and conserved proteins (HA2& M2) in mice
- ✓ Founded by: Pasteur Institute of Iran,2019

- Association of the host genetic risk factors with influenza disease severity
- ✓ Founded by: Pasteur Institute of Iran,2021

- Long term clinical and serological assessment of confirmed COVID19 infected individuals for finding re-infection cases during 1 year after onset of infection
- ✓ Founded by: Pasteur Institute of Iran,2021

- Design, Cloning and expression of chimeric protein composed of the antigenic regions of hemagglutinin and conserved domains of influenza virus in Nicotiana benthamiana and immunogenicity assessment in .mouse model
- ✓ Founded by: Pasteur Institute of Iran,2021

- Evaluation of viral infections in patients with respiratory symptoms and negative result of COVID-19
- ✓ Founded by: Pasteur Institute of Iran,2022

Teaching Experiences:

- ✓ 2019- Pasteur Institute of Iran, Teaching theoretical and sample preparation, RNA extraction and cDNA synthesis, Biosafety in virology lab to students of the 10th Summer School course

- ✓ 2018- Pasteur Institute of Iran, Teaching theoretical and practical sample preparation, RNA extraction and cDNA synthesis, Biosafety in virology lab to students of the 9th Summer School course

- ✓ 2017- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software, sample preparation, RNA extraction and cDNA synthesis, Biosafety in virology lab to students of the 8th Summer School course
- ✓ 2016- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software, sample preparation, RNA extraction and cDNA synthesis, Biosafety in virology lab to students of the 7th Summer School course
- ✓ 2015- Pasteur Institute of Iran, Teaching theoretical and practical ELISA to students of the 6th Summer School course
- ✓ 2015- Pasteur Institute of Iran, Teaching theoretical and practical HI test to students of the 6th Summer School course
- ✓ 2014- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software to students of the 5th Summer School course
- ✓ 2014- Pasteur Institute of Iran, Teaching theoretical and practical ELISA to students of the 5th Summer School course
- ✓ 2014- Pasteur Institute of Iran, Teaching theoretical and practical HI test to students of the 5th Summer School course
- ✓ 2013- Pasteur Institute of Iran, Teaching theoretical and experimental medical virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2013- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software to students of the 4th Summer School course
- ✓ 2013- Pasteur Institute of Iran, Teaching theoretical and practical HI test to students of the 4th Summer School course
- ✓ 2013- Pasteur Institute of Iran, Teaching theoretical and practical ELISA to students of the 4th Summer School course
- ✓ 2012- Pasteur Institute of Iran, Teaching theoretical and experimental medical virology to PhD students of Bacteriology of the Pasteur Institute of Iran

- ✓ 2012- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software to students of the 3rd Summer School course
- ✓ 2012- Pasteur Institute of Iran, Teaching theoretical and practical ELISA to students of the 3rd Summer School course
- ✓ 2011- Pasteur Institute of Iran, Teaching theoretical and practical EndNote to students of the 2^{ed} Summer School course
- ✓ 2011- Pasteur Institute of Iran, Teaching theoretical and practical ELISA to students of the 2^{ed} Summer School course
- ✓ 2011- Pasteur Institute of Iran, Teaching theoretical and experimental medical virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2010- Pasteur Institute of Iran, Teaching theoretical and practical EndNote software to students of the first Summer School course
- ✓ 2010- Pasteur Institute of Iran, Teaching theoretical and experimental general virology to PhD students of Microbiology of the Pasteur Institute of Iran
- ✓ 2010- Pasteur Institute of Iran, Teaching theoretical and experimental general virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2009- Pasteur Institute of Iran, Teaching theoretical and experimental general virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2008- Pasteur Institute of Iran, Teaching theoretical and experimental general virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2004- Pasteur Institute of Iran, Teaching theoretical and experimental general virology to M.S students of Microbiology of the Pasteur Institute of Iran
- ✓ 2003- Pasteur Institute of Iran, Teaching theoretical and experimental virology of Arboviruses and Viral Haemorrhagic Fevers to M.S students of Virology of the Pasteur Institute of Iran.

Workshops and training Attendance:

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- ✓ 2015- Workshop on Biorisk management in Pasteur Institute of Iran
- ✓ 2012- Training on management of quality assurance in Pasteur Institute of Iran
- ✓ 2012- Workshop on Monitoring and QC of steam sterilization processes in Pasteur Institute of Iran
- ✓ 2011- Workshop on STATA software in Pasteur Institute of Iran
- ✓ 2011- Workshop on Real Time PCR in national lab of Influenza of Tehran University of Medical Sciences Tehran-Iran
- ✓ 2010- Workshop on Primer and Probe designing in Shahid Beheshti University of Medical Sciences Tehran-Iran
- ✓ 2010- Workshop on Bioinformatics in Shahid Beheshti University of Medical Sciences Tehran-Iran
- ✓ 2009- Workshop on Biosafety in Pasteur Institute of Iran
- ✓ 2006-Workshop on Cloning for Heterologous Gene Expression in Shahid Beheshti University of Medical Sciences Tehran-Iran
- ✓ 2004-Workshop on serological (ELISA) and molecular (RT-PCR) diagnosis of CCHF by Allen Ronald Grolla and Shane Jones,which took place in Pasteur Institute of Iran (IPI) , in the frame of collaboration between Arboviruses Laboratory (IPI) and The Canadian Science Center for Human and Animal Health in Winnipeg, , Manitoba, Canada, 22-29 May 2004.
- ✓ 2004- Workshop on molecular diagnosis of CCHF by Dr Ramon Flick, Assistant Professor and Director of Operations in Department of Pathology of the University of Texas Medical Branch, which took place in Pasteur Institute of Iran, in the frame of Collaboration between Arboviruses Laboratory (IPI) and the university of Texas Medical Branch, USA, 15-20 May 2004.

- ✓ 2004-Workshope on serological diagnosis of arboviruses by Dr Hervé Zeller (Directeur des Centres Nationaux de Référence et du Centre Collaborateur OMS des Arbovirus et des Fièvres Hémorragiques Virales) and Dr Michèle Bouloy (Unité Postuante de Génétique Moléculaire des Bunyaviridés), which took place in IPI, in the frame of collaboration between Arboviruses Laboratory (IPI), IPP and IP of LYON, France, 10-15 January 2004.
- ✓ 2002- Workshope on molecular diagnosis of CCHF by Dr Heinz Feldmann (Head of Level 4 Program Bureau of Microbiology Laboratory Center for Disease Control, Canada) and Dr Ramon Flick and Allen Ronald Grolla, which took place in IPI, in the frame of collaboration between Arboviruses Laboratory (IPI) and the Canadian Science Center for Human and Animal Health in Winnipeg, Canada, 17-31 October 2002.
- ✓ 2002- Workshope on serological diagnosis of Arboviruses by Dr Marie-Francoise Saron, which took place in IPI, in the frame of collaboration between Arboviruses Laboratory (IPI) and IPD, Senegal, 1-15 October 2002.
- ✓ 2001- Workshope on serological diagnosis of arboviruses and epidemiology by Dr Marie-Francoise Saron and Dr Pierre Nabbet which took place in IPI, in the frame of Collaboration between IPI and IPD, Senegal, 19 October 2001-5 November 2001.

Author & Co author in PUBLICATIONS/SEMINARS/PATENTS: (Start from most recent)

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- ❖ Prolonged viral shedding and antibody persistence in patients with COVID-19. *Microbes and Infection*, May–June 2021, Vol 23.
- ❖ Anti-whole influenza A/H1N1 virus polyclonal antibody for passive immunization against influenza, Abstract presented on the 20th International Congress of Microbiology of Iran, Kerman, Iran, 2019, as poster presentation.
- ❖ Evaluation of the structural changes in the aluminum salt adjuvant antigen-based vaccine in influenza virus, Abstract presented on the 12th International & 17th National Congress on Quality Improvement in Clinical

Laboratories, 2019, Tehran, Iran. As Poster presentation.

- ❖ Anti - whole Influenza A/H1N1 Virus Polyclonal Antibody for passive immunization against influenza. 20th International Congress of Microbiology of Iran, 2019, as poster presentation
- ❖ Vaccination with three tandem repeats of M2 extracellular domain fused to Leishmania major HSP70 protects mice against influenza A virus challenge. VIRUS RESEARCH, June 2018 , Vol251, 40-46
- ❖ Hemagglutinin Conserved Domain (HA2) Prepared in Prokaryotic System is Immunogenic in Mice but not Protective against Lethal Influenza Challenge. Iranian Journal of Virology, 2017;11(3): 7-12
- ❖ Association of IFITM3 rs12252 polymorphisms, BMI, diabetes, and hypercholesterolemia with mild flu in an Iranian population. Virology Journal, November 2017, 14(1)
- ❖ Purification of Influenza virus A (H1N1) recombinant Hemagglutinin (HA1) and polyclonal antibody production. TUMS Med J, November 2017, Vol 75, 585-592
- ❖ Development of a multiplex real-time RT-PCR assay for detection of human parainfluenza viruses in patients with respiratory symptoms. FUTURE VIROLOGY, Sep 2016, Vol 11, NO 9.
- ❖ Vero and MDCK cell lines transfection by human SIAT7e gene - a new approach for cell-culture-based vaccine production, Abstract presented on the 9th International Congress of Clinical Microbiology (ICCM9), Medical University of Shiraz, IRAN. (Oral), 2015
- ❖ Production of polyclonal antibody against Tehran strain influenza virus (A/H1N1/2009) hemagglutinin conserved domain(HA2): brief report. Tehran University Medical Journal, October 2015, vol73, no7:535-539.
- ❖ Development of an efficient TAQMAN-based Real-Time-PCR assay for diagnosing human parainfluenza viruses in respiratory samples. The 16th International and Iranian Congress of Microbiology, Tehran-Iran. 25-27 August 2015. as poster presentation.
- ❖ Simultaneous detection of human parainfluenza viruses 1,2,3, and 4 in patients with influenza-like illness using a multiplex Real-Time PCR. OMICS/August 18-20 2015 ,Frankfurt, Germany. as poster presentation.

- ❖ An H1-H3 chimeric influenza virosome confers complete protection against lethal challenge with PR8 (H1N1) and X47 (H3N2) viruses in mice. *Pathogens and Disease*, September 2014, 72(3):197-207
- ❖ Serological survey of Avian Influenza (H9N2) among different occupational groups in Tehran and Qazvin provinces in IRAN. *Jundishapur Journal of Microbiology*/2013; 6(4):e5441.
- ❖ Effects of aqueous *Echinacea purpurea* extract on immunogenicity of DNA vaccine encoding M2 gene of Influenza virus. *Journal of Gorgan University of medical sciences*/88, winter 2013, vol14, no14.
- ❖ Surveillance of Influenza viruses in Iran (Tehran, Zanjan, Semnan, and Markazi) in 1390. 5th International Congress of Laboratory & Clinics, Tehran-Iran. January 15-18 2013. as first author and as poster presentation.
- ❖ Expression of N-glycosylated form of influenza hemagglutinin in recombinant *Escherichia coli*, 6th Iranian congress of virology, Tehran-Iran. 17-19 October 2012. as poster presentation.
- ❖ Efficacy of Influenza Vaccine in Iranian Health Workers and Healthy Persons. 11th International Congress of Immunology and Allergy, Tehran-Iran. April 26-29 2012. as first author and as poster presentation.
- ❖ Comparative survey of Influenza types and subtypes in susceptible respiratory samples in the years 2010 and 2011 in provinces of Iran. The 5th International & 10th National Congress on Quality Improvement in Clinical Laboratory. April 23-26, 2012. as first author and as poster presentation.
- ❖ Detection of Avian Influenza (H9N2) Virus Antibody Titers in Different Occupational Categories in Tehran and Qazvin Provinces in Iran in 1389. The 20th Iranian Congress on Infectious and Tropical Medicine. Dec.3.2011-Jan.4.2012. as poster presentation.
- ❖ Assessment of increasing effects of *Echinacea purpurea* extract on DNA vaccine encoding M₂ gene of Influenza virus in mice. 4th Congress of Laboratory and Clinics. 21-23 December 2011. as poster presentation.
- ❖ Isolation, Cloning and sequencing of novel Influenza Virus A/H1N1/09 Hemagglutinin gene. The 5th Iranian Congress of Clinical Microbiology 8-10 Nov, 2011. as poster presentation.

- ❖ Serological survey against Avian influenza (H9N2) among different occupational categories in Tehran and Qazvin provinces in Iran in 1389. First international & 12th Iranian congress of microbiology. Kermanshah, Iran, 23-26 May, 2011. as poster presentation.
- ❖ Geographical distribution of animal bite and rabies in the Caspian Sea Littoral provinces during 2002-2007. Journal of school of public health and institute of public health. Vol8, No3, 2010.
- ❖ Epidemiological survey of Novel A/H1N1 Influenza in susceptible respiratory samples. The 3rd congress of laboratory and clinic of pediatrics. 1-3 Dec, 2010. as poster presentation.
- ❖ Prevalence of Swine Influenza (Novel A/H1N1) in patients susceptible to influenza. The 3rd congress of laboratory and clinic of pediatrics. 1-3 Dec, 2010. as poster presentation.
- ❖ Expression of a chimerical pcDNA encoding influenza virus M2 protein and HSP70 gene in eukaryotic cell lines. Institute Pasteur International Network Annual Scientific meeting, Hong Kong. 22-23 Nov, 2010. as poster presentation.
- ❖ Amantadin resistant variants of influenza A virus from Flu-like Infected suspects in a Child Infectious Research Center in Tehran, Iran. Institute Pasteur International Network Annual Scientific meeting, Hong Kong. 22-23 Nov, 2010. as poster presentation.
- ❖ Prevalence of human Influenza type A virus isolated from viral respiratory infected children referring to Children Infectious Research Center of Mofid Hospital during Winter of 1387. The 18th Infectious and Tropical disease congress. 12-16 Dec 2009. as oral presentation.
- ❖ Comparison of cell culture and RT-PCR results in the seasonal influenza suspected patients considering the age and duration of the disease. The 18th Infectious and Tropical disease congress. 12-16 Dec 2009. as poster presentation.
- ❖ Avian Influenza (H9N2) among poultry workers in Iran. Iranian Journal of Microbiology, vol1. No 3, 3-6, autumn 2009.
- ❖ Avian influenza and professional risk. First scientific –specific

biology congress, Payamenour University, Iran, 18-19 Nov 2007.

- ❖ Seroepidemiological study of Crimean-Congo Haemorrhagic Fever in Iranian suspected patients between 2000-2004. 8th Annual Meeting of the European Society for Clinical Virology, 27-30 April 2005/World Meteorologia Orgazization (OMM) Geneva,Switzerland.2005.
- ❖ A serological survey in suspected human patients of Crimean-Congo Hemorrhagic Fever in Iran by determination of IgM specific ELISA method during 2000-2004. Archives of Iranian Medicine, 7(4):1-4, 2004.
- ❖ Detection of CCHF virus in soft ticks (Argasidae) by RT-PCR method. Journal of Infectious disease and tropical medicine. 9(24):11-15,2004.
- ❖ Study on the infection by Crimean-Congo Haemorrhagic Fever Virus (CCHFV) in different provinces in Iran during 2000-2004. The 9thArbovirus Research in Australia / 6th National Conference of the Mosquito Control Association of Australia, Australia Noosa Lakes Resort, 22-27 August 2004.
- ❖ A four year laboratory survey of Crimean-Congo Haemorrhagic Fever (CCHF) in Iran. The IX European multicolloquium of parasitology, Valencia/ Spain, 18-23 July 2004.
- ❖ Seroepidemiology of crimean-Congo haemorrhagic fever (CCHF) in Iran during the years 2000-2004. The Second European Congress of Virology, EuroVirology 2004, Madrid / Spain, 5-9 September 2004.
- ❖ Investigation of Humoral Immune responses and RT-PCR method for detection and follow-up of Crimean-Congo Haemorrhagic Fever (CCHF) Disease In Iranian patients. The12th International Congress of Immunology and 4th Annual Conference of FOCIS, Montreal / Canada, 18-23 July 2004.
- ❖ Crimean –Congo Haemorrhagic Fever (CCHF), the main aetiological cause of viral haemorrhagic fevers(VHFs) in the last four years(2000-2003) in Iran. The14th European Congress of Clinical Microbiology and Infectious Diseases. Prague / Czech Republic, 1-4 May 2004.

- ❖ The situation and trend of Crimean – Congo Haemorrhagic Fever (CCHF) in Iran. The 11th International Congress on Infectious Diseases. Cancun / Mexico, March 4-7, 2004.
- ❖ The situation and trend of Crimean – Congo Haemorrhagic Fever (CCHF) in Iran. ESCV Winter Meeting 2004. Copenhagen / Denmark, January 15-17, 2004.
- ❖ Comparison of research finding on Crimean-Congo Haemorrhagic Fever (CCHF) disease in the last four years (2000-2003) in Iran. The 12th Iranian Congress on Infectious disease and tropical medicine. Tehran / Iran, January 17-21, 2004.
- ❖ The situation and trend of Crimean – Congo Haemorrhagic Fever (CCHF) in Iran. The 2nd Iranian Congress on Virology. Tehran / Iran, 13-15 Feb, 2004.
- ❖ Epidemiological feature of Crimean - Congo Haemorrhagic Fever (CCHF) in Man and Domestic animals of Iran during the period March 2000 to March 2003. The 13th Veterinary Congress of Iran. Tehran / Iran, 24-26 Feb, 2004.
- ❖ 'Crimean –Congo Haemorrhagic Fever (CCHF)' The main aetiological of Viral Haemorrhagic Fevers(VHFs) in Iran. 6th IEA Eastern Mediterranean Regional Scientific Meeting. Ahwaz / Iran, 2-4 Dec, 2003.
- ❖ Serological and Molecular Diagnosis of Crimean-Congo Haemorrhagic Fever (CCHF) Disease in Iranian Suspected patients. 6th Asia pacific Congress of Medical Virology. Kuala Lumpur/ Malaysia, 7 – 10Dec, 2003.
- ❖ A three year laboratory survey of Crimean–Congo Haemorrhagic Fever (CCHF) Disease in Iran. XII International Conference on Negative Strand Viruses. Pisa / Italy, 14- 19 Jun 2003.
- ❖ Crimean –Congo Haemorrhagic Fever (CCHF) the main aetiological of Viral Haemorrhagic Fevers(VHFs) in Iran. 6th annual meeting of the European Society for Clinical Virology. Lyon/ France. 24-27 Aug 2003.

- ❖ A survey of Crimean –Congo Haemorrhagic Fever in Iran. 13th European Congress of Clinical Microbiology and Infectious Disease, Glasgow/UK, 10-13 May, 2003.
- ❖ A three year Laboratory survey of the Crimean –Congo Haemorrhagic Fever disease in suspected domestic animals in Iran. The 11th Iranian Congress on Infectious disease and tropical medicine 28 Feb – 4 Mar 2003.
- ❖ Serological survey by specific Elisa in suspected domestic animals and human (with regard to the contacts and profession of the patients) of Crimean – Congo Haemorrhagic Fever (CCHF) in 23 provinces of Iran . 1st Seminar on the Role of Microbiology Lab in control and prevention of Hospital snoitcefniv 1-2 oct 2002.
- ❖ Seroepidemiology of Crimean-Congo Haemorrhagic Fever (CCHF) in human (Considering the profession) and domestic animals in Iran by quantifying specific IgMs and IgGs by ELISA. The congress of military medicine 7-9 Oct 2002 .
- ❖ Analysis and presentation of suspected cases of Crimean – Congo Haemorrhagic Fever in military forces during the year 1378-1380. Military Medicine Journal, Vol. 4, No. 1, spring 2002. pp 1-5.
- ❖ The seroepidemiological aspect of Crimean- Congo Haemorrhagic Fever in Three Health Workers: a report from Iran. Archives of Iranian Medicine Vo15, No4 , October 2002. pp 255-258.
- ❖ The Seroepidemiology of the Crimean- Congo Haemorrhagic Fever (CCHF) in humans and domestic animals in Iran by analyzing the amounts of specific IgM and IgG against the virus of the disease by Elisa technique. Annual Congress of Pathology 2002 in Tehran.
- ❖ Seroepidemiology of Crimean -Congo Haemorrhagic Fever (CCHF) in suspected human patients and domestic animals in Iran. In the XII international congress of Virology Paris. 27th July to 1st August 2002.
- ❖ Determination of humoral immune response (IgM, IgG) to

Crimean - Congo Haemorrhagic Fever Virus (CCHFV) in suspected human patients and domestic animals by specific Elisa techniques. In the 14th international conference on lymphatic tissues and germinal centers in immune reactions. 23-27 Jun 2002. Groningen - The Netherlands.

- ❖ The specific serological investigation of suspected humans and domestic animals to have Crimean-Congo Haemorrhagic Fever in various parts of Iran using Elisa techniques. Hakim Journal . (National research center of medical sciences. I.R. Iran) Vol.4 No. 4 winter 2002. pp 294-300.
- ❖ A serological survey by specific Elisa techniques in man and domestic animals suspected of Crimean -Congo Haemorrhagic Fever disease (CCHF) in different parts of the country from 7 June 2000 until 30 October 2001. in the first Iranian congress on virology, 19-21 Feb 2002.