

# CURRICULUM VITAE



## Amir Ghaemi; Ph.D.

**Date of birth:** January 27, 1980

**Current Positions:**

- Associate professor Pasteur Institute of Iran, Tehran, Iran
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### Educations:

**Ph.D. in Molecular virology** (2005-2009)

Tarbiat Modares university (TMU), Tehran, Iran

Thesis title: Design and construction of nanoparticle Lambda-phages for delivery of HPV-16 E7 gene to animal cells and their immunological evaluation in tumor mice model

**M.Sc. in Molecular Virology** (2002-2005)

Tarbiat Modares University (TMU), Tehran, Iran.

GPA: 18.89/20.00

Thesis title: Evaluation of Herpes Simplex Virus-1 latency in vaccinated mice\after inoculation of DNA vaccine encoding gD-1 of HSV-1

**B.Sc. in Microbiology** (1998-2002)

GPA: 16.46/20

### Research Interests:

- ✓ Influenza Virosome and Gene delivery systems
- ✓ Cancer Gene therapy-oncolytic therapy

## Honors:

- ❖ Ranked 1<sup>st</sup> among 480 examinees for the M.Sc. entrance exam, held by the Iranian ministry of science, research and technology. (2002)
- ❖ PhD Scholarship from ministry of health and medical education (2005)
- ❖ Iran National Elite foundation member. (2008)
- ❖ Outstanding national Student Award of Iran (National). (2009)
- ❖ The best researcher of Golestan province. (2010)
- ❖ Young Assistant Professor Grant from Iran National Elite foundation. (2010)
- ❖ The Best researcher of Golestan University of medical sciences (2010, 2011, 2013, 2015)

## Approved Grants:

1. In situ PCR development for detecting latent Herpes simplex virus type 1. Tarbiat Modares University. **2007.**
2. Design and construction of nanoparticle Lambda-phages for delivery of HPV-16 E7 gene to animal cells and their evaluation as a booster-therapeutic vaccine in tumoric mice model. Iran food and drug organization. **Approval:** Golestan university of Medical sciences, **Position: Director, 2008.**
3. Design and construction of Lambda phage based- intelligent nanobioparticles as therapeutic vaccine against hepatitis C cancers. **Approval:** Golestan university of Medical sciences, **Position: Director,** Golestan university of Medical sciences. **2009.**
4. Design and development of stem cell secreting immunosuppressive cytokines as a novel therapeutic approach against multiple sclerosis. **Approval:** Tehran university of Medical sciences, **Position: Co-Director, 2010.**
6. Design and production of chitosan nanoparticles as HPV-16 E7 gene carriers in cervical cancer tumor mice model, **Approval:** Golestan university of Medical sciences, **Position: Director, 2012**
7. Immunologic evaluation of DNA vaccine encoding influenza virus M2 gene (prime) and purified M2 protein (Booster) in type A-influenza mice model, **Approval:** Golestan university of Medical sciences, **Position: Director, 2013**
8. Design and administration of DNA vaccine- peptide of HPV-16 E7 antigen in prime-boost strategy and evaluation of its antitumor efficacy, **Approval:** Golestan university of Medical sciences, **Position: Director, 2013**
9. Assessment of DNA vaccine encoding human papillomavirus type 16 E7 gene adjuvanted with TLR 3,4,9 agonists for induction of antitumor responses. **Approval:** Golestan university of Medical sciences, **Position: Director, 2013**
10. Antitumoral response assessment of Gemcitabine chemotherapy-DNA vaccine encoding HPV-16 E7 in papillomavirus type 16-associated tumor, **Approval:** Golestan university of Medical sciences, **Position: Director, 2014**

11. Evaluation of DNA vaccine encoding HPV-16 E7- melatonin adjuvant in immune response induction in Human papillomavirus-associated tumor animal models. **Approval:** Golestan university of Medical sciences, **Position: Director, 2014**

12. Comparing the efficacy of Influenza virosomes with chimeric Influenza-VSV virosomes for delivery of DNA vaccine in tumor mice model. **Approval:** Institute Pasteur of Iran **Position: Director, 2015**

13. Application of avian Newcastle disease virus (NDV) in combination with influenza hemagglutinin Fusogenic membrane glycoproteins (FMGs) gene as novel therapy for murine model of human papillomavirus –induced cancer. **Approval:** Iran National Science Foundation (INSF), **Position: Director, 2017**

14. Evaluation of influenza virosome potency as carrier of plasmid expressing influenza genes and GM-CSF as genetic adjuvant **Approval:** Pasteur Institute of Iran **Position: Director, 2017**

#### **ISI Journal Publications:**

**Google scholar h-index:20; Citations: 1660 (by July. 1, 2019)**

**Scopus h-index:15; Citations: 708(by July. 1, 2019)**

1. Inactivation methods for whole influenza vaccine production. Sabbaghi A, Miri SM, Keshavarz M, Zargar M **Ghaemi A (Correspond Author)**. Rev Med Virol. 2019 Jul 23:e2074. doi: 10.1002/rmv.2074. **IF: 3.7**
2. Oncolytic paramyxoviruses-induced autophagy; a prudent weapon for cancer therapy.Keshavarz M, Solaymani-Mohammadi F, Miri SM, **Ghaemi A (Correspond Author)**. J Biomed Sci. 2019 Jun 19;26(1):48. doi: 10.1186/s12929-019-0542-9. Review. **IF: 5.3**
3. Human rotavirus in Iran; molecular epidemiology, genetic diversity and recent updates on vaccine advances Tavakoli Nick S, Mohebbi SR, Ghaemi A, Hosseini SM Gastroenterol Hepatol Bed Bench. 2019 Spring;12(2):98-109. Review.
4. Immunomodulatory and prophylactic effects of Bifidobacterium bifidum probiotic strain on influenza infection in mice. Mahooti M, Abdolalipour E, Salehzadeh A, Mohebbi SR, Gorji A, **Ghaemi A (Correspond Author)**. World J Microbiol Biotechnol. 2019 Jun 3;35(6):91. doi: 10.1007/s11274-019-2667-0. **IF: 2.3**
5. A gene variation of Interferon Gamma Receptor-I promoter (rs1327474A>G) and chronic hepatitis C virus infection.Karkhane M, Mohebbi SR, Sharifian A, Ghaemi A, Asadzadeh Aghdaei H, Zali MR Gastroenterol Hepatol Bed Bench. 2019 Winter;12(1):46-51.
6. Non-replicating Newcastle Disease Virus as an adjuvant for DNA vaccine enhances antitumor efficacy through the induction of TRAIL and granzyme B expression. Mohebbi A, Ebrahimzadeh MS, Baghban Rahimi S, Saeidi M, Tabarraei A, Mohebbi SR, Shirian S, Gorji A, **Ghaemi A (Correspond Author)**. Virus Res. 2019 Feb;261:72-80. **IF:2.58..**

7. Natural Infection with Rabies Virus: A Histopathological and Immunohistochemical Study of Human Brains. Farahtaj F, Alizadeh L, Gholami A, Tahamtan A, Shirian S, Fazeli M, Nejad ASM, Gorji A, Niknam HM, **Ghaemi A (Correspond Author)**. *Osong Public Health Res Perspect*. 2019 Feb;10(1):6-11.
8. Vaccination with three tandem repeats of M2 extracellular domain fused to *Leishmania major* HSP70 protects mice against influenza A virus challenge. Shokouhi H, Farahmand B, **Ghaemi A**, Mazaheri V, Fotouhi F. *Virus Res*. 2018 Jun 2;251:40-46. **IF:2.58**.
9. Antitumor Immunity Induced by Genetic Immunization with Chitosan Nanoparticle Formulated Adjuvanted for HPV-16 E7 DNA Vaccine. Tahamtan A, Barati M, Tabarraei A, Mohebbi SR, Shirian S, Gorji A, **Ghaemi A (Correspond Author)**. *Iran J Immunol*. 2018 Dec;15(4):269-280. **IF:0.8**
10. Enhancement of therapeutic DNA vaccine potency by melatonin through inhibiting VEGF expression and induction of antitumor immunity mediated by CD8+ T cells. Baghban Rahimi S, Mohebbi A, Vakilzadeh G, Biglari P, Razeghi Jahromi S, Mohebi SR, Shirian S, Gorji A, **Ghaemi A (Correspond Author)**. *Arch Virol*. 2018 Mar;163(3):587-597. **IF:2.2**
11. Adjuvant use of the NKT cell agonist alpha-galactosylceramide leads to enhancement of M2-based DNA vaccine immunogenicity and protective immunity against influenza A virus. Fotouhi F, Shaffifar M, Farahmand B, Shirian S, Saeidi M, Tabarraei A, Gorji A, **Ghaemi A (Correspond Author)**. *Archive of Virol*. 2017; 162:1251–1260 **IF:2.2**
12. Synergistic effect of programmed cell death protein 1 blockade and secondary lymphoid tissue chemokine in the induction of anti-tumor immunity by a therapeutic cancer vaccine, Moeini S, Saeidi M, Fotouhi F, Mondanizadeh M, Shirian S, Mohebi A, Gorji A, **Ghaemi A (Correspond Author)** . *Archive of Virol*. 2017; 162:333-346 **IF:2.2**.
13. Astrocyte-mediated inflammation in cortical spreading depression. Ghaemi A (First Author), Alizadeh L, Babaei S, Jafarian M, Khaleghi Ghadiri M, Meuth SG, Kovac S, Gorji A. *Cephalalgia*. 2017 Jan 1:0333102417702132. **IF:6.052**
14. Rapamycin Augments Immunomodulatory Properties of Bone Marrow-Derived Mesenchymal Stem Cells in experimental autoimmune encephalomyelitis, toghae M, Jahanshahi M, Alizadeh L, Razeghi S, Gorji A and **Ghaemi A (Correspond Author)**, *Mol Neurobiol* 2016 10.1007/s12035-016-9840-3 **IF:5.4**
15. Combination of the Toll like receptor agonists and  $\alpha$ -Galactosylceramide as an Efficient Adjuvant for Cancer Vaccine, Gableh F, Saeedi M, Hamdi K, Gorji A, **Ghaemi A (Correspond Author)**, *Journal of biomedical science*, 2015 25(23):1-16- **IF: 5.3**
16. Chitosan Nanoparticles as a potential non-viral gene delivery for HPV-16 E7 into mammalian cells, Tahamtan A, Tabarraei A, Moradi A, Dinarvand M, Kelishadi M, , Fatemeh Atyabi F, **Ghaemi A (Correspond Author)**, *Artificial Cells, Nanomedicine and Biotechnology* 2015, 43: 366–372. **IF: 1.2**
17. The Effect of Melatonin on Behavioral, Molecular, and Histopathological Changes in Cuprizone Model of Demyelination. Vakilzadeh G, Khodaghali F, Ghadiri T, **Ghaemi A**, Noorbakhsh F, Sharifzadeh M, Gorji A, *Mol Neurobiol*. 2015 Aug 27. **IF: 5.4**
18. Immunomodulatory Effect of Toll-Like Receptor-3 Ligand Poly I:C on Cortical Spreading Depression. **Ghaemi A**, Sajadian A, Khodaie B, Lotfinia A, Lotfinia M, Aghabarari F, Khaleghi Ghadiri M, Meuth A, Gorji A. *Mol Neurobiol* 2015 DOI 10.1007/s12035-014-8995-z. **IF:5.4**

19. Antitumor effect of therapeutic HPV DNA vaccines with Chitosan-Based Nanodelivery Systems, Tahamtan A, **Ghaemi A (Correspond Author)**, Gorji A, Kalhor HR, Sajadian A, Tabarraei A, Moradi A, Atyabi F, Kelishadi M, Journal of biomedical science, 2014 31;21:69. **IF: 2.76**
20. DNA vaccine encoding HPV-16 E7 with mutation in L-Y-C-Y-E pRb-binding motif induces potent anti-tumor responses in mice, Alagheband Bahrami A, **Ghaemi A (Correspond Author)**, Tabarraei A, Sajadian A, Gorji A, Soleimanjahi H. Journal of Virological Methods 2014 206 (2014) 12–18. **IF: 2.01**
21. Enhanced Cell Immune Responses to Hepatitis C Virus Core by Novel Heterologous DNA Prime/Lambda Nanoparticles Boost in Mice, Saeedi A, **Ghaemi A (Correspond Author)**, Tabarraei A, Moradi A, Gorji A, Semnani S, Soleimanjahi H, Hosseinzadeh Adli A, Hosseini SY, Vakili MA, Virus Genes, 2014,49(1):11-21. **IF: 2**
22. Comparing the effect of Toll-Like Receptor Agonist adjuvants on the efficiency of the DNA vaccine, Sajadian A, Tabarraei A, Soleimanjahi H, Moradi A, Fotouhi F, Gorji A, **Ghaemi A (Correspond Author)**, Archive of virology, 2014, 159(8):1951-1960. **IF: 2.7**
23. Chitosan Nanoparticles as a potential non-viral gene delivery for HPV-16 E7 into mammalian cells, Tahamtan A, Tabarraei A, Moradi A, Dinarvand M, Kelishadi M, Atyabi F, **Ghaemi A (Correspond Author)**, Artificial Cells, Nanomedicine and Biotechnology 2014 DOI: 10.3109/21691401.2014.893522. **IF:1.15**
24. Immunogenicity evaluation of a DNA vaccine expressing the Hepatitis C Virus NS2 gene in C57BL/6 mice, Gorzin Z, Gorzin A, Tabarraei A, Behnampour N, Irani S, Gorji A, **Ghaemi A (Correspond Author)**, Iranian Biomedical journal, 2014,18(1):1-7.
25. Protective Effect of a cAMP Analogue on Behavioral Deficits and Neuropathological Changes in Cuprizone Model of Demyelination, Vakilzadeh G, Khodaghohi F, Ghadiri T, Darvishi M, **Ghaemi A**, Noorbakhsh F, Gorji A, Sharifzadeh M, Molecular Neurobiology, 2015, 52(1):130-141. **IF:5.4**
26. Alleviation of experimental allergic encephalomyelitis in C57BL/6 mice by soy daidzein, Razezegh S, Areffhosseini SR, **Ghaemi A**, Toghae M, Iranian Journal of Allergy, Asthma and Immunology, 2014,13(4):256-264. **IF:1.1**
27. Interleukin-12 as a genetic adjuvant enhances hepatitis C virus NS3 DNA vaccine immunogenicity, Naderi M, Saeedi A, Kelishadi M, Moradi A, Gorji A, **Ghaemi A (correspond Author)**, Virologica Sinica. 2013,28(3): 167-173. **IF:2.46**
28. HSP70 modified response against HPV based tumor, Farzanehpour M, Soleimanjahi H, Hassan ZM, Amanzadeh A, **Ghaemi A**, Fazeli M, European Review for Medical and Pharmacological Sciences ERMPS, 2013,17:228-234. **IF:1.6**
29. Genistein Induces a Protective Immunomodulatory Effect in a Mouse Model of Cervical Cancer, **Ghaemi A (Correspond Author)**, Soleimanjahi H, Razezghi S, Gorji A, Tabarraei A, Iranian Journal of immunology 2012;9(2):119-127. **IF:0.492**
30. Lambda Phage nanoparticles for Targetomics, **Ghaemi A (Correspond Author)**, Tabarraei A, Soleimanjahi H, Gorji A, Biotechnology 2012; 11(2): 95-99.
31. Mutations in the S gene region of hepatitis B virus genotype D in Golestan Province-Iran. Moradi A, Zhand S, **Ghaemi A**, Javid N, Tabarraei A. Virus Genes. 2012;44:382-387. **IF:2**

32. Tissue Inhibitors of Matrix Metalloproteinase-3, potential therapeutic target against Multiple sclerosis. **Ghaemi A (Correspond Author)**, Hamdi K, Togha M, Kazemi H, Gorji A, American Journal of Biochemistry and Molecular biology 2012;2(3): 195-199.
33. Protection of mice by a Lambda-based therapeutic vaccine against HPV16-associated cancer. **Ghaemi A**, Soleimanjahi H, Gill P, Hassan Z, Razeghi S, Fazeli M, Razavinikoo MH, Intervirology 2011; 19;54(3):105-112. **IF:1.8**
34. Efficacy of HPV-16 E7 Based Vaccine in a TC-1 Tumoric Animal Model of Cervical Cancer. Fazeli M, Soleimanjahi H, **Ghaemi A**, Farzanehpour M, Amanzade A, Hashemi R, Cell Journal 2011;12(4): 483-488.
35. Recombinant Lambda-phage nanobioparticles for tumor therapy in mice models. **Ghaemi A**, Soleimanjahi H, Gill P, Hassan Z, Razeghi S, Roohvand F, Genetic Vaccine and Therapy 2010;8(3):1-7. **IF:2.3**
36. Localization of Herpes Simplex Virus Type 1 DNA in Latently Infected BALB/c Mice Neurons Using in situ Polymerase Chain Reaction. Khansarinejad B, Soleimanjahi H, **Ghaemi A**, taki T, Iranian Biomedical Journal 2010;14 (3): 83-88.
37. Echinacea purpurea Polysaccharide Reduces the Latency Rate in Herpes Simplex Virus Type-1 Infections. **Ghaemi A (Correspond Author)**, Soleimanjahi H, Gill P, Arefian E, Soudi S, And Hassan Z. Intervirology 2009;52:29–34. **IF:1.8**
38. Virulence Increasing of Salmonella typhimurium in Balb/c Mice After Heat-Stress Induction of Phage Shock Protein A. Hassani AS, Amirmozafari N, **Ghaemi, A (Correspond Author)**, Current Microbiology. 2009; 59:446-450. **IF:2.2**.
39. A Kinetic Study of Gamma Interferon Production in Herpes Simplex Virus–1 DNA Prime-Protein Boost Regimen Comparing to DNA or Subunit Vaccination. Arefian E. Bamdad T. Soleimanjahi H. Akhoond M, Parsania M, **Ghaemi A**. Cell Molecular Biology, 2009; 43 (3):388–393. **IF:1.7**
40. Phage shock protein G, a Novel Ethanol Induced Stress Protein in Salmonella typhimurium. Shoaehassani A, Malekzadeh F, Amirmozafari N, Hamdi K, Ordouzadeh N, **Ghaemi A. (Correspond Author)**. Current Microbiology. 2009; 58:239-244. **IF:2.2**
41. In vitro inhibition of Helicobacter pylori urease with non and semi fermented Camellia sinensis. Shoaehassani A, Ordouzadeh N, Hamdi K, **Ghaemi A. (Correspond Author)** Nazari R, Amirmozafari N. Indian Journal of Medical Microbiology. IJMM. 2009;27(1):30-34.
42. Nucleic Acid Isothermal Amplification Technologies - A Review, Gill P and **Ghaemi A**. Nucleoside, nucleotide and nucleic acid. NNNA. 2008; 27:224–243. **IF:1.8**
43. Nanodiagnostic Method for Colorimetric Detection of Mycobacterium tuberculosis 16S rRNA. Gill P, Ghalami M, **Ghaemi A**, Mosavari N, Abdul-Tehrani H, Sadeghizadeh M. Nanobiotechnology 2008; 4: 28-35.
44. Prophylactic effects of Echinacea purpurea polysaccharide against lethal ocular herpes simplex virus type I. **Ghaemi A**, Soleimanjahi H, Gill P, Arefian E, Soudi S, Hassan Z. Saudi S. Medical Journal. SMJ 2008; 29(8): 1203-1205.

45. Volatile components of *Commellia sinensis* inhibit growth and biofilm formation of oral *Streptococci* in vitro. Shoae hassani A, Amirmozafari N, Ordouzadeh N, Hamdi K, Nazari R, **Ghaemi A**. *Pakistan Journal of Biological Sciences*. PJBS 2008; 11(10): 1336-1341.
46. Induction of humoral and cellular immunity against latent HSV-1 infection by DNA immunization in BALB/c mice. **Ghaemi A**, Soleimanjahi H, Bamdad T, Arefian E. *Comparative microbiology, immunology and infectious disease CIMID*. 2007; 30: 197-210. **IF:2.4**
47. Molecular detection of *Mycobacterium tuberculosis* by tHDA-ELISA DIG detection system, Gill, P, Abdul-Tehrani, H, **Ghaemi A**, Hashempour T, VP Amiri, Ghalami M, Eshraghi N, Noori-Dalooi M. *International Journal of Antimicrobial Agents*. 2007; 29: 570-571. **IF:4.2**
48. Thermophilic helicase-dependent isothermal DNA amplification for molecular detection of *Helicobacter pylori*, Gill P, Abdul-Tehrani H, **Ghaemi A**, Hashempour T, Alvandi A, Noori-Dalooi M. *International Journal of Antimicrobial Agents*. 2007; 29: 135-136. **IF:4.2**
49. Evaluation of gamma interferon Kinetics in Herpes Simplex Virus infected mice in different days post infection (in vivo) and post re-stimulation (in vitro). Arefian A, Bamdad, T, Soleimanjahi H, Sabahi F, Akhoond R, Parsania M, **Ghaemi A**. *Comparative Immunology, Microbiology & Infectious Diseases*. CIMID. 2007; 30:1-9. **IF:2.4**
50. Detection of *Helicobacter pylori* by enzyme-linked immunosorbent assay of thermophilic helicase-dependent isothermal DNA amplification, Gill P, Amini M, **Ghaemi A**, Shokouhizadeh L, Abdul-Tehrani H, Karami A, Gilag A. *Diagnostic Microbiology and infectious Disease*. DMID 2007; 59: 243-249. **IF:2.45**
51. Pro12Ala polymorphism of the PPAR $\gamma$ -2 gene is associated with insulin resistance and type 2 diabetes in an Iranian population. Meshkani R, Taghikhani M, Larijani B, Bahrami Y, Khatami S, Khoshbin E, **Ghaemi A**, Sadeghi S, Mirkhani F, Molapour A and Adeli K. *Clinical Chemistry and Laboratory Medicine CCLM*. 2007;45(4):477-482. **IF:2.7**
52. Antileishmanial effect of *Echinacea purpurea* root extract cultivated in Iran. Souidi S, Hashemi SM, Zavarani A, **Ghaemi A**, Jafarabadi M. *Iranian Journal of Pharmaceutical Research*. 2007;6(2):147-149.
53. Enzyme-linked immunosorbent assay of nucleic acid sequence-based amplification for molecular detection of *M. tuberculosis*, Gill P, Ramezani R, Amiri M, **Ghaemi A**, Hashempour T, Eshraghi N, Ghalami M, Tehrani H. *Biochemical and Biophysical research communication*. BBRC. 2006; 374:1151-1157. **IF:2.29**
54. PCR detection of Thymidine Kinase gene of latent Herpes simplex virus type 1 in mice trigeminal ganglia. **Ghaemi A**, Soleimanjahi H, Bamdad T, Roostaei MH and Arefian E. *Archives of Razi Institute*. 2006; 61(3): 136-141.

### Articles in Persian journal:

1. Immunologic Evaluation of DNA Vaccine Encoding Influenza Virus M2 Gene in Type A- Influenza Mice Model, Shaffifar, M., Tabarraei, A., Sajadian, A., Fotouhi, F , **Ghaemi, A**, *Medical Laboratory Journal*. 2015; 9 (1) :9-16.

2. Drug- Resistance- Associated Mutations and HIV Sub-Type Determination in Drug-Naïve and HIV-Positive Patients under Treatment with Antiretroviral Drugs. Naziri H, Tabarraei A, Ghaemi A, Davarpanah M, Javid N, Moradi A. **Medical Laboratory Journal**. 2013; 7 (3) :1-8.
3. Seroepidemiology of Hepatitis E Virus in Hemodialysis Patients in Gorgan-Iran. Tahamtan A, Moradi A, Ghaemi A, Kelishadi M, Ghafari H, Hashemi P, **Medical Laboratory Journal**. 2013; 7 (2) :13-17
4. Expression of M2 Protein of Human Influenza Virus in Escherichia Coli. Alavi Esfahani MA, Fotouhi F, **Ghaemi A**, Saleh M, Chalabiani S, Farahmand B, Tavasoti Kheiri M. **Journal of Isfahan Medical School**, 2013, 30(216): 2091-2102.
5. Effects of aqueous Echinacea purpurea extract on immunogenicity of DNA vaccine encoding M2 gene of Influenza virus. Rousta F, Fotouhi F, **Ghaemi A**, Heidarchi B, Mazaheri B, Fazeli M. **Journal of Gorgan University of Medical Sciences**, 2013, 14(4): 81-88.
6. Meningitis caused by mumps virus in children admitted to Gorgan's Taleghani hospital. Moradi AV, Azadfar S, Cheraghali F, Javid N, Ghaemi A, Tabarraei A. **Medical Laboratory Journal**, 2011, 5 (2): 1-7.
7. NASBA Isothermal Technique: a Novel Tool for Mycobacterium tuberculosis Diagnosis. Ghaemi A, Gill P, Moradi A, Tabarraei A. **Medical Laboratory Journal**, 2010, 3 (2): 60-64 (Mini Review).
8. Inhibitory Effect of Green and Black Teas Ethyl acetate extracts on Helicobacter pylori the causative agent of peptic ulcers. Shoa Hassani AR, Hamdi K, **Ghaemi A\*(Corres Author)**. **Journal of Qazvin University of Medical Sciences**. 2010; 13(4):12-18.
9. Construction of the Chimeric HSP70 - E7 Vector and Evaluation of its Protein Production. Razavinikoo H, Soleimanjahi H, Fotouhi F, **Ghaemi A**, Fazeli M. **Iranian Journal of Virology**. 2009;3(3): 29-34 (English).
10. Design and Construction of Recombinant Phage Nanobioparticles as a Candidate Vehicle for Oral-Gene Vaccine Delivery to Animal Systems. **Ghaemi A**, Soleimanjahi H, Gill P, Hassan ZM, Roohvand F. **Daneshvar** 2009; 81:1-6.
11. Determination of Annual Incidence, Age Specific Incidence Rate and Risk of Rotavirus Gastroenteritis among Children in Iran. Zaraei-Mahmoodabadi B, Kargar M, Tabatabaei H, Saedegipour S, **Ghaemi A**, Nategh R. **Iranian Journal of Virology**. 2009;3(1): 39-42 (English)
12. In vitro Reduction in Colonization of Streptococcus mutans by Honey Beeswax Ethyl Acetate Extract, Shoa Hassani AR, Hamdi K, **Ghaemi A\*(Corres Author)**. **Journal of Arak University of Medical Sciences**. 2009; 11(4): 87-95
13. Antibacterial effects comparison between Black and Green tea (Camellia sinensis) extracts on the growth inhibition and biofilm formation of Enterobacteriaceae. A. Shoa Hassani, N. Ordouzadeh, **Ghaemi \*(Corres Author)**, R. Nazari, K. Hamdi, D Hekmatpou. **Arak university of medical sciences Journal**. 2008; 11(2):62-73.



14. In vitro Biofilm Inhibitory Effects of Black and Green Teas Extracts on Dental plaque forming Streptococci. A. Shoa Hassani, N. Ordouzadeh, **A Ghaemi** \*(Corres Author), K. Hamdi, **Shahrekoord university of medical sciences Journal**. 2008; 10(3): 1-8.
15. Study the Effect of Echinacea Purpurea Extract on Cellular Delayed Type Hypersensitivity and Splenocyte Proliferation in BALB/c Mice, S.M. Hashemi, S. Soudi, **A. Ghaemi**, H. Soleimanjahi:, Z.M. Hassan. **Yakhteh Medical Journal**; 2008; 9(4):254-261.
16. Study of antiherpetic activities of root extract from Tagetes minuta on cell culture against herpes simplex virus type 1 and 2. **A. Ghaemi**, Farshbaf Moghaddam M, Soleimanjahi H, Omidbiagi R, Bamdad T, Hekmatpou D, Hamdi K. **Arak university of medical sciences Journal**. 2007; 10(2):47-53
17. Evaluation of ethanolic extracts of tagetes minuta against Candida Albicans susceptible and resistant to Fluconazole. Eskandari A., Holakoe M, Yadegari MH, **A. Ghaemi**, Zarinkafsh H. **Kowsar medical journal**. 2007; 12(1):21-29.

### **Congress/ Conference:**

1. Antiviral activity of root extract from Tagetes minuta against Herpes Simplex Virus Types 1 **Ghaemi A**, H. Soleimanjahi, R.Omidbeigi, To be Presented on 3rd International Congress of Health, Environment& Natural Products(HENP). Mashhad , Iran, 2004
2. Evaluation antiviral activity of aerial parts extracts of Echinacea purpurea from Iran against HSV-1. **Ghaemi A**, H. Soleimanjahi, R.Omidbeigi, To be Presented on 2nd International Congress on Traditional Medicine & Materia Medica, Tehran, Iran, 2004.
3. Chemical composition of essential oil Tagetes minuta from Iran. H. Soleimanjahi, **Ghaemi A**, , H. Soleimanjahi, R.Omidbeigi, To be Presented on 2nd International Congress on Traditional Medicine & Materia Medica, Tehran, Iran, 2004.
4. In Vitro antifungal effect and chemical composition of thyme( thymus vulgaris) essential oil on some fungi, M.Farshbaf, M. Omidbeigi, **Ghaemi A**, To be Presented on 2nd International Congress on Traditional Medicine & Materia Medica, Tehran, Iran, 2004.
5. Vaccination with avirulent strain of HSV-1 provides protection against lethal HSV-1 challenge but not from latency in chronic morphine treatment Mice, **Ghaemi A**, H. Soleimanjahi, M.H. Rostaie ,T. Bamdad be Presented on 1st International Congress on Immunodeficiency Disorders ,Tehran, Iran, 2005.
6. Immunization with DNA vaccine encoding gD-1 of HSV-1 elicits lymphocyte proliferation response to herpes simplex virus type 1, **Ghaemi A**, H. Soleimanjahi, T. Bamdad. The 1st Iranian seminar on immunity and infections, Saree, Iran, 2005.
7. Evaluation of gamma IFN mRNA synthesizes after mice infection with HSV-1 in different days; E.Arefian, H. Soleimanjahi ,T. Bamdad, **Ghaemi A**, The 1st Iranian seminar on immunity and infections ,Saree, Iran, 2005.
8. Comparison of the virus neutralization test (VNT),ELISA and dot immunoassay (DIA) for detection of mumps antibodies, F.Ghandyani, M.roostaei, T.Bamdad, H. Soleimanjahi, **Ghaemi A**. 15th European

Congress of Clinical microbiology and Infectious Disease Copenhagen, Denmark ECCMID, April 2005.

9. Evaluation of herpes simplex virus-1 latency in trigeminal ganglia of ocular and systemic infected mice, **Ghaemi A**, H. Soleimanjahi, T. Bamdad, . 15th European Congress of Clinical microbiology and Infectious Disease Copenhagen ECCMID, Denmark, April. 2005.
10. Echinacea; beyond an Immunostimulator. M. Hashemi, S. Soudi, **Ghaemi A**, ZM. Hassan. 1st International congress of Biology. Rasht. May 2005
11. Evaluation of herpes simplex virus latency after vaccination with vector containing gD gene of HSV-1. **Ghaemi A**, Soleimanjahi H, Bamdad T, Roostaie MH, E. Arefian The 4th national biotechnology congress of Islamic republic of Iran. 15-17 August, Kerman, 2005.
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19. In Vivo and In Vitro immunostimulatory activity of E.purpurea extract. M. Hashemi, S. Soudi, A. **Ghaemi A**, ZM. Hassan. 8th Iranian congress of Immunology & Allergy, Tehran, Iran. May 2006
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21. Inhibitory activity of Echinacea purpurea extract on macrophage function. M. Hashemi, S. Soudi, **Ghaemi A**, AZ. Hosseini. 8th Iranian congress of Immunology & Allergy, Tehran, Iran. May 2006
22. Enzyme linked oligonucleotidesorbent assay of Thermophilic Helicase-Dependent Isothermal DNA Amplification for molecular detection of M. tuberculosis rrs gene. P. Gill, H.A. Tehrani, N. Eshraghi, A. **Ghaemi A**, T. Hashempour, M. Ghalami. 14th National & 2nd International conference of Biology, TMU, Tehran, Iran, August 2006

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24. Development of In Situ PCR technique for detection of latent HSV-1 DNA in mice trigeminal ganglia. B. Khansarinejad, H. Soleimanjahi, **Ghaemi A.**, S. Poorbeiranvand, A. teimori. Archives of Iranian Medicine. 2007; 10(4), Suppl1: S21
25. Design and construction of chimeric nanobioparticles for killing of intracellular *Mycobacterium leprae*. 5th Anniversary of International Drug Discovery Science and Technology, P. Gill, **Ghaemi A.** (IDDST-2007)-Serial II: Advances and Challenges Toward Major Diseases. Xi'an-China. 7-13 November 2008.
26. Construction of therapeutic nanovaccine against cervical cancer using phage-based particles. **Ghaemi A.**, H. Soleimanjahi, Z M Hassan , P Gill, The Edinburgh Phage Conference, 2008
27. Design of recombinant Lambda-based nanoparticles against Human Papillomavirus virus neoplasms, **Ghaemi A.**, H. Soleimanjahi, Z M Hassan , P Gill, S. M. Razavi Nikoo, 5rd Iranian congress on Virology, Tehran, Iran. may 2009
28. Protection of mice by a Lambda-based therapeutic vaccine against HPV16-associated cancer. **Ghaemi A.** , Soleimanjahi H, Gill P, Hassan Z, 4th Vaccine and ISV Annual Global Congress 2010, Vienna, Austria.

### Patents:

- Prophylactic effect of Echinacea purpurea extract on ocular disease caused by HSV-1. **A. Ghaemi** and H. Soleimanjahi

### Books:

Application of NASBA-ELISA technologies for diagnosis of microorganisms; HIV, HCV and HBV

- Medical Microbiology

### Research Students, Supervisor:

1. 10 Student (M.Sc student of Azad University- Microbiology- Biotechnology) 2009-2018
2. 3 Student (M.Sc student of Golestan university of medical sciences- Biotechnology) 2011-2014
3. 7 Student (M.Sc student of Golestan university of medical sciences- Virology) 2011-2016
4. 3 Student (PhD student of Tehran university of medical sciences- Virology) 2015-2018
5. 4 Student (PhD student of Azad University - Microbiology) 2015-2018

## **Nucleotides in NCBI**

1. Synthetic construct E7 protein (E7) gene, complete cds, GenBank: KC344538
2. Synthetic construct E7 protein (E7) gene, complete cds, GenBank: KC410871.1
3. Hepatitis B virus isolate GOR-1391 core protein gene, partial cds, GenBank: KC928094.1
4. Hepatitis B virus isolate GOR-1390-1 S protein (S) gene, partial cds, GenBank: KC633131.1