# سوابق علمی- پژوهشی

## ❖ مشخصات فردی


**نام و نام خانوادگي:** محمد حسن پوریای ولی
**نام پدر:** هوشنگ
**تاریخ تولد:**1360/ 12/6

**تابعیت:** ايراني
**مذهب:** شیعه
**وضعیت تاهل:** متاهل

**تلفن همراه:** 09131024705

**پست الکترونیکی:** MHPouriayevali@yahoo.com


## ❖ مشخصات آموزشی و مدارک تحصیلی

| مقطع تحصیلی | معدل دوره | محل اخذ مدرک | سال اخذ مدرک |
|---|---|---|---|
| کاردانی علوم آزمایشگاهی | 68/16 | دانشگاه علوم پزشکی کاشان | 1381 |
| کارشناسی علوم آزمایشگاهی | 55/17 | دانشگاه علوم پزشکی مشهد | 1384 |
| کارشناسی ارشد ویروس شناسی پزشکی | 24/18 | دانشگاه تربیت مدرس | 1387 |
| دکتری ویروس شناسی پزشکی | 93/18 | دانشگاه تربیت مدرس | 1395 |

## ❖ عنوان پایان نامه دکتری

**ارزیابی ایمنیزایی تزریق همزمان پلاسمید بیانی واجد ژن NS3 ویروس هپاتیت C و لیستریولیزین Oدر مدل موشی BALB/c**

## ❖ رتبه علمی

**دانشجوی برتر رشته علوم آزمایشگاهی بین سالهای 81 - 1379**

❖ **سوابق اجرایی**

**ریس بخش آربوویروسها و تبهای خونریزی دهنده ویروسی از سال 1401 تا کنون**

## ❖ طرحهای تحقیقاتی

✔ **بررسی ملکولی آلودگی ویروس نیل غربی (West Nile Virus)در پشه های Culicine جمع آوری شده از استان خوزستان**

- ✔ **طراحی، ساخت و ارزیابی پلاسمید bicistronic با قابلیت همزمان آنتی ژن و ادجوانت IL18/Ig (به اتمام رسیده)**
- ✔ **توسعه رده سلولی تخمدان همستر چینی(CHO)به رده سلولی پایدار بیان کننده ژنهای Nef و Vprویروس HIV (به اتمام رسیده)**
- ✔ **ارزیابی ایمنی زایی ذرات شبه ویروسی حاوی آنتی ژن MPER نوترکیب با هدف القاء پاسخ ایمنی همورال علیه ویروس HIV-1 در مدل موشی BALB/c**
- ✔ **بررسی تاثیر غالبیت اپی توپ محرک ایمنی سلولی ویروس هرپس سیمپلکس تیپ 1 در واکسن DNA حامل این اپی توپ و بهبود ایمنی زایی آن در همراهی با ژنVP22 (به اتمام رسیده)**
- ✔ **بررسی شیوع عفونت با متاپنوموویروس انسانی و ویروس سنسیشیال تنفسی به روش مولکولی در کودکان مبتلا به عفونت حاد دستگاه تنفس تحتانی بستری شده در بیمارستان حضرت علی اصغر تهران طی سالهای 1388 تا 1391 (به اتمام رسیده)**

## ❖ مقالات و سمینارهای


- ❖ Pordanjani, P.M., et al., Extracellular vesicles in vaccine development and therapeutic approaches for viral diseases. Process Biochemistry, 2023.
- ❖ Mostafavi, E., et al., Efficacy and safety of a protein-based SARS-CoV-2 vaccine: a randomized clinical trial. JAMA Network Open, 2023. 6(5): p. e2310302-e2310302.
- ❖ Salehi-Vaziri, M., et al., The ins and outs of SARS-CoV-2 variants of concern (VOCs). Archives of Virology, 2022. 167(2): p. 327-344.
- ❖ Pouriayevali, M.H., et al., Potency, toxicity and protection evaluation of PastoCoAd candidate vaccines: Novel preclinical mix and match rAd5 S, rAd5 RBD-N and SOBERANA dimeric-RBD protein. Vaccine, 2022. 40(20): p. 2856-2868.
- ❖ Mohebali, M., et al., SARS-CoV-2 in domestic cats (Felis catus) in the northwest of Iran: Evidence for SARS-CoV-2 circulating between human and cats. Virus Research, 2022. 310: p. 198673.
- ❖ Milani, A., et al., Different dendritic cells-based vaccine constructs influence HIV-1 antigen-specific immunological responses and cytokine generation in virion-exposed splenocytes. International Immunopharmacology, 2022. 113: p. 109406.
- ❖ Maleki, A., et al., Sequential HCoV-HKU1 and SARS-CoV-2 Infections, a Case Report. Journal of Medical Microbiology and Infectious Diseases, 2022. 10(2): p. 93-97.

- Maleki, A., et al., Novel Mutations Associated with N-Gene Target Failure in SARS-COV-2 Genome in Iran, Case Series. Journal of Medical Microbiology and Infectious Diseases, 2022. 10(3): p. 141-145.

- Salehi-Vaziri, M., et al., Evidence of Hantavirus circulation among municipal street sweepers, southwest of Iran. Virusdisease, 2021. 32(2): p. 251-254.

- Salehi-Vaziri, M., et al., SARS-CoV-2 re-infection rate in Iranian COVID-19 cases within one-year follow-up. Microbial pathogenesis, 2021. 161: p. 105296.

- Salehi-Vaziri, M., et al., SARS-CoV-2 presented moderately during two episodes of the infection with lack of antibody responses. Virus research, 2021. 299: p. 198421.

- Salehi-Vaziri, M., et al., Corrigendum to 'How Iran responded to expanding need for laboratory services for COVID-19?'. Health Policy and Technology, 2021. 10(4): p. 100570.

- Parsania, A., et al., Chelidonium majus L. alkaloid extract enhances TRAIL-induced apoptosis in HeLa cell line through death receptors 4 and 5 upregulation. Gene Reports, 2021. 25: p. 101311.

- Larijani, M.S., et al., HIV-1 p24-nef DNA vaccine plus protein boost expands T-Cell responses in BALB/c. Current drug delivery, 2021. 18(7): p. 1014-1021.

- Jalali, T., et al., Aptamer based diagnosis of crimean-congo hemorrhagic fever from clinical specimens. Scientific Reports, 2021. 11(1): p. 1-10.

- Fattahi, Z., et al., Disease waves of SARS-CoV-2 in Iran closely mirror global pandemic trends. MedRxiv, 2021: p. 2021.10. 23.21265086.

- Mostafa Salehi-Vaziri, Mir Davood Omrani, **Mohammad Hassan Pouriayevali**, Fatemeh Fotouhi, Mohammad Banifazl,.. ; SARS-CoV-2 presented moderately during two episodes of the infection with lack of antibody responses, Virus Research, 2021 (in press).

- Mostafa Salehi-Vaziri, Arash Arashkia, Ehsan Mostafavi, Tahmineh Jalali, **Mohammad Hassan Pouriayevali**, Mehdi Fazlalipour, Zabihollah Shoja, ..; How Iran responded to expanding need for laboratory services for COVID-19?, Health Policy and Technology, 2021 (in press).

- Mona Sadat Larijani, Amitis Ramezani, Maryam Mashhadi Abolghasem Shirazi, Azam Bolhassani, **Mohammad Hassan Pouriayevali**, Sepideh Shahbazi, Seyed Mehdi Sadat, Evaluation of transduced dendritic cells expressing HIV-1 p24-Nef antigens in HIV-specific cytotoxic T cells induction as a therapeutic candidate vaccine, Virus Research, 2021 (in press).

- Mostafa Salehi-Vaziri, Jamal Sarvari, Maryam Mansurnejadan, Alireza Shiri, Negar Joharinia, Ruhollah Khoshbakht, Omid Jaberi, **Mohammad Hassan Pouriayevali**,..; Evidence of Hantavirus circulation among municipal street sweepers, southwest of Iran, VirusDisease, 2021 (in press).

- Mostafa Salehi-Vaziri, Tahmineh Jalali, Behrokh Farahmand, Fatemeh Fotouhi, Mohammad Banifazl, **Mohammad Hassan Pouriayevali**, et al.; Clinical characteristics of SARS-CoV-2 by re-infection vs. reactivation: a case series from Iran, European Journal of Clinical Microbiology & Infectious Diseases, 2021 (in press).

- Fatemeh Fotouhi, Mostafa Salehi-Vaziri, Behrokh Farahmand, Ehsan Mostafavi, **Mohammad Hassan Pouriayevali**, et al.; Prolonged viral shedding and antibody persistence in patients with COVID-19, Microbes and Infection, 2021 (in press).

- Mona Sadat Larijani, Seyed Mehdi Sadat, Azam Bolhassani, **Mohammad Hassan Pouriayevali**, Amitis Ramezani; HIV-1 p24-nef DNA Vaccine Plus Protein Boost Expands T-Cell Responses in BALB/c, Current Drug Delivery, 2021 (in press).

- Arashkia A, Jalilvand S, Mohajel N, Afchangi A, Azadmanesh K,Salehi-Vaziri M,Fazlalipour M, **Pouriayevali MH**, Jalali T: Severe acute respiratory syndrome coronavirus 2 spike (S) protein based vaccine candidates: State of the art and future prospects, Rev Med Virol. 2020;e2183.

- M Salehi-Vaziri, H Vatandoost, A Sanei-Dehkordi, M Fazlalipour, **MH Pouriayevali**; T Jalali; Tahereh Molecular Assay on Detection of Crimean Congo Hemorrhagic Fever (CCHF) Virus in Ixodid Ticks Collected from Livestock in Slaughterhouse from South of Iran. J Arthropod-Borne Dis, September 2020, 14(3): 286–292

- Larijani MS, **Pouriayevali MH**, Sadat SM, Ramezani A. Production of Recombinant HIV-1 p24-Nef Protein in Two Forms as Potential Candidate Vaccines in Three Vehicles. Curr Drug Deliv. 2020 Mar

- Abbas Ahmadi Vasmehjani, Mostafa Salehi-Vaziri, Kayhan Azadmanesh, Ahmad Nejati, **Mohammad Hassan Pouriayevali**, Mohammad Mahdi Gouya,et al. Efficient production of a lentiviral system for displaying Crimean-Congo hemorrhagic fever virus glycoproteins reveals

a broad range of cellular susceptibility and neutralization ability. Arch Virol 165, 1109–1120 (2020)

- **Pouriayevali, M.H**., Rezaei, F., Jalali, T. et al. Imported cases of Chikungunya virus in Iran. BMC Infect Dis 19, 1004 (2019).

- Mostafa Salehi Vaziri, Azadeh Salarian Kaleji, Mehdi Fazlalipour, Tahmineh Jalali, Tahereh Mohammadi, Sahar Khakifirouz, Vahid Baniasadi, **Mohammad Hassan Pouriayevali**, et al. Hantavirus infection in Iranian patients suspected to viral hemorrhagic fever. J Med Virol. 2019;91:1737-1742.

- **Mohammad H Pouriayevali**, Taravat Bamdad, Seyed M Sadat, Seyed A Sadeghi, Farzaneh Sabahi, Mehdi Mahdavi, Mohammad R Aghasadeghi. Listeriolysin O immunogenetic adjuvant enhanced potency of hepatitis C virus NS3 DNA vaccine. IUBMB Life. 2019;71:1645–1652.

- Tahmineh Jalali, Mostafa Salehi-Vaziri, **Mohammad Hassan Pouriayevali**, Seyed Latif Mousavi Gargari. Evaluation of Crimean-Congo Hemorrhagic Fever Orthonairovirus AviTaged Nucleoprotein for Potential Application in Diagnosis. Iran. Biomed. J. 2019. Proofs accepted, (in press).

- Eybpoosh S, Fazlalipour M, Baniasadi V, **Pouriayevali MH**, Sadeghi F, Ahmadi Vasmehjani A,et al. Epidemiology of West Nile Virus in the Eastern Mediterranean region: A systematic review. PLoS Negl Trop Dis. 2019; 13(1): e0007081

- Vahid Baniasadi , **Mohammad Hassan Pouriayevali**, Tahmineh Jalali, Mehdi Fazlalipour Kayhan Azadmanesh, Mostafa Salehi-Vaziri. Evaluation of first rapid diagnostic kit for Anti-Crimean-Congo Hemorrhagic Fever virus IgM antibody using clinical samples from Iran. Journal of virological methods. 2019;(265): 49-52

- Larijani M, Sadat S, Bolhassani A, **Pouriayevali M**, Bahramali G, Ramezani A. In silico design and immunologic evaluation of HIV-1 p24-Nef fusion protein to approach a therapeutic vaccine candidate. Current HIV research. 2018 (16): 322-337

- Khalili S, Rasaee MJ, Bamdad T, Mard-Soltani M, Ghalehni MA, Jahangiri A, **Pouriayevali MH**, Aghasadeghi MR, Malaei F . A novel molecular design for a hybrid phage-DNA construct against DKK1. Mol Biotechnol. 2018; 60(11):833–842.

- **Pouriayevali MH**, Bamdad T, Sadat SM, Sabahi F, Aghasadeghi M R. Construction of pLLO vector encoding truncated form of Listeriolysin O as molecular adjuvant for DNA vaccine studies. Arch Med Lab Sci. 2018;2(3):89-93.

- Nemattalab M, Shenagari M, Mojtahedi A, Aghasadeghi M R, **Pouriayevali MH**, Taheri M et al . Design, cloning and expression assay of oipA gene in a bicistronic vector harboring mice IL-18 gene: potential implications for Helicobacter pylori vaccine investigations. JBRMS. 2017; 4 (3) :1-7
- Razavi Nikoo H, Ardebili A, Ravanshad M, Rezaei F, Teimoori A, Khanizadeh S, **Pouriayevali MH**. E6-Specific Detection and Typing of Human Papillomaviruses in Oral Cavity Specimens from Iranian Patients. IBJ. 2017; 21 (6) :411-416.

- **Pouriayevali MH**, Bamdad T, Sadat SM, Sabahi F, Aghasadeghi M R. Construction of pLLO vector encoding truncated form of Listeriolysin O as molecular adjuvant for DNA vaccine studies. Arch Med Lab Sci. 2016;2(3):89-93.

- **Mohammad Hassan Pouriayevali**, Taravat Bamdad, Mohammad Reza Aghasadeghi, Seyed Mehdi Sadat, Farzaneh Sabahi .Construction and Immunogenicity Analysis of Hepatitis C Virus (HCV) Truncated Non-Structural Protein 3 (NS3) Plasmid Vaccine. Jundishapur J Microbiol. 2016 March; 9(3):e33909.

- Masoud Parsania, Behzad Poopak, **Mohammad Hassan Pouriayevali**, Sama Haghighi, Aref Amirkhani, and Alireza Nateghian. Detection of Human Metapneumovirus and Respiratory Syncytial Virus by Real-Time Polymerase Chain Reaction Among Hospitalized Young Children in Iran. Jundishapur J Microbiol. 2016 Mar; 9(3): e32974.

- Zavvar M, Moshiri A, Motevali F, **Pouriayevali MH**, Bahramali G. Construction of pIRES2 vector encoding truncated NS3 of HCV and IL-18. Vaccine Research. 2015; 2(1): 24-28

- **Pouriayevali M**, Bamdad T, Sadat S, Sabahi F, Aghasadeghi M, Yazdani S. Establishment of NS3 tumor cell line expressing Hepatitis C virus Non-structural Protein 3 as valuable tool for HCV challenging in mice. vacres. 2015; 2 (5 and 6) :101-106.

- **Pouriayevali MH**, Zavvar M, Aghasadeghi MR, Sadat SM, Azizi-Saraji AR, Javadi F, Sadraraei J ,Mostafavi E, Motevalli F, Rahimi P, Shafiee Ardestani M, Akkafzadeh E. A study on the prevalence of rotavirus infection among the HIV-positive patients with gastroenteritis. Feyz, Journal of Kashan University of Medical Sciences. 2013; 17( 3):294-299.( in Persian)

- AkramTabatabaee, Seyed Davar Siadat, Seyed Fazllolah Mousavi, Mohammad Reza Aghasadeghi , Arash Memarnejadian, **Mohammad Hassan Pouriayevali,** and Neda Yavari.Overexpression and Purification of C-terminal Fragment of the Passenger Domain of Hap Protein from Nontypeable Haemophilus influenzae in a Highly Optimized Escherichia coli Expression System. Avicenna J Med Biotech 2013; 5(3): 176-185.

- Dorostkar, Rohollah; Bamdad, Taravat; Parsania, Masoud; **Pouriayevali, Hassan**. An Endogenous Immune Adjuvant Released by Necrotic Cells for Enhancement of DNA Vaccine Potency.. Iranian Journal of Immunology 2012: 9(4): 215-25.

- S.Yazdani Neyshabouri, MR.Aghasadeghi ,A.Jahanian Najafabadi, S.Bouzari, A.Arashkia, SM. Sadat,SD. Siadat, ZA. Sadigh, S.Hekmat ,**MH.Pouriayevali**, N.Kashanizadeh. Expression of recombinant Hepatitis C virus (HCV)Core, E1 and E2 proteins by the baculovirus expression vector system. African Journal of Microbiology Research Vol. 6(19), pp. 4152-4157. 2012

- **Mohammad Hassan Pouriayevali**, Taravat Bamdad, Masoud Parsania, Rohollah Dorostkar Sari. Full length antigen priming enhances the CTL epitope-based DNA vaccine efficacy. Cellular Immunology, 2011.268: 4-8,

- Seyed Davar Siadat, Saied Reza Naddaf , Mehrangiz Zangeneh, Arfa Moshiri, Seyed Mehdi Sadat, Mehdi Shafiee Ardestani, **Mohammad Hassan Pouriayevali**, Safieh Amini and Mohammad Reza Aghasadeghi. Outer membrane vesicle of Neisseria meningitides serogroup B as an adjuvant in immunization of rabbit against Neisseria meningitidis serogroup A. African Journal of Microbiology Research .2011; 5(19): 3090-3095.

- **Pouriayevali MH**, Memarnejadian AR, Sadat M, Zavva M, Siadat SD, Hartoonian C, et al. Designing and construction of bicistronic plasmid pIRES-Igk/mIL 18/Fc potential implications for vaccine investigations. Modares J Med Sci: Pathobiol 2011; 14 (2): 13– 23.

- Masoud Parsania, Taravat Bamdad, Zuhair Hassan, Maryam Kheirandish, **Mohammad Hassan Pouriayevali**, Rohollah Dorostkar Sari, Abbas Jamali. Evalution of apoptotic and anti-apoptotic genes on efficacy of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus type 1. Immunology Letters 128: 137-142, 2010.

- Parsania M, Hassan Z, Bamdad T, Kheirandish M, **Pouriayevali MH**, Dorostkar R, Sarbolouki M, Jamali A, Mahdavi M .Pro-apoptotic gene enhances the immunogenicity of glycoprotein B gene of herpes simplex virus-1. Gene Therapy and Molecular Biology, 12: 7-14, 2008.

- علیرضا ناطقیان، سما حقیقی، بهناز پروینی، بهزاد پوپک، **محمد حسن پوریای ولی** ، مسعود پارسانیا مقایسه علائم بالینی، یافته‌های آزمایشگاهی و دموگرافیک در کودکان مبتلا به عفونت حاد دستگاه تنفس تحتانی با ویروس سنسیشیال تنفسی و متاپنوموویروس انسانی مجله علوم پزشکي رازي 1394

- مسعود پارسانیا، زهیر محمد حسن، طراوت بامداد، مریم خیراندیش، محمد نبی سربلوکی، **محمد حسن پوریای ولی**، روح الله درستکار، مهدی مهدوی. بررسي تاثیر همراهی پلاسمید کد کننده Bax در افزایش کارایی DNA واکسن پلاسمید gB ویروس هرپس سیمپلکس نوع یک. فصلنامه پزشکی یاخته سال دهم، شماره 2 تابستان 87

## ❖ سخنرانی

- Designing and evaluation of HCV exhausted mice model . 7th Iranian congress of virology 10-11 may 2017

- Listeriolysin O Plasmid as Genetic Adjuvant for Hepatitis C virus DNA vaccine. 13th international congress of immunology and allergy of Iran. Tabriz University of Medical sciences and Iranian society for immunology and allergy 2016

- Construction and Immunogical Evaluation of Truncated form of the Hepatitis C virus non-Structural Protein 3 (NS3) gene. 22nd International Student Congress of(BIO)Medical Sciences. University Medical Center Groningen 2014

- بررسی اثر ایمنی زایی واکسن DNA کد کننده VP22 ویروس هرپس سیمپلکس تیپ یک، همایش منطقی یافته های نوین میکروبشناسی ملکولی، تنکابن، آذرماه 88
- ارزیابی وابستگی میزان سلول های Treg در عفونت HIV و پیشرفت آن. نوزدهمین کنگره بیماریهای عفونی و گرمسیری ایران. تهران دی ماه 89

## ❖ پوستر

- ❖ Designing and construction of bicistronic plasmid capable of simultaneous expression of antigen and IL18/Ig adjuvant. 11th Iranian Congress genetics.Tehran, June 2010.
- ❖ Molecular detection of Entric Adenovirus prevalence among Iranian HIV infected patients using Nested PCR method. 4th Iranian congress of clinical microbiology. Isfahan 9-11Nov. 2010
- ❖ Assessment of Different Protocols of full Length and immunodominant CTL epitope Glycoprotein B DNA vaccine on Cell mediated immune response in C57BL/6 mice. 11th Iranian Congress genetics.Tehran, June 2010.
- ❖ the Immunological Effects of DNA Vaccine Encoding VP22 of Herpes Simplex Virus Type 1. *4th Iranian Congress of Virology*, Tehran, May 2007.
- ❖ The effect of pro-apoptotic Bax protein on efficiency of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus Type 1. *4th Iranian Congress of Virology*, Tehran, May 2007.
- ❖ The effect of supernatant of necrotic cells as an innate adjuvant on efficiency of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus type 1. *Fourth Iranian Congress of Virology, May 2007.*
- ❖ F. Javadi ,M.R. Aghasadeghi, S.D. Siadat, S.M.Sadat, R. Vahabpour, R. Zabiholahi, **MH Pouriayevali** , M. Davari, A. Delbaz, R. Hajabed Naeini. Outer membrane vesicle of Neisseria meningitidis serogroup B as a new adjuvant to induce strong immune responses against HIV-1. International Student Congress of (bio) Medical Student, (ISCOMS2011). 7-10 th June 2011. Croningen – the Netherland.
- ❖ **M.S Pouriayevali**, S. M Sadat, M.R Aghasadeghi, M. Zavar, F Javadi, S.D Siadat, A.R Saraji,A Delbaz, R Vahabpoor,J Sadraei, R Edalat. Prevalence of rotavirus infection among Iranian HIV-infected patients with gastroenteritis. 14th Tabriz International Medical Sciences Congress (TIMSC 2011). May 2011, Tabriz-Iran.
- ❖ M. Zavar, S. M Sadat **,** M.R Aghasadeghi M.S **Pouriayevali,** , F Javadi, S.D Siadat, S Amini, S Hekmat, F Motevalli, J Sadraei. Another case for gastroenteritis episodes among Iranian HIV infected patients. 14th Tabriz International Medical Sciences Congress (TIMSC 2011). May 2011, Tabriz-Iran.

- M.R Aghasadeghi,A. farahani, G. bahramali, S.M. Sadat,, A. Memarnejadian. S.D Siadat, M. Mohraz,M. Foroughi, F. Javadi,F. Roohvand,R. Vahabpoor,M.R **Pouriayevali**- Prevalence of HBV Lamivudine- Resistance Mutations in a cohort of Iranian HBV- infected patient with and without HIV co-infection. *ESCMIDP1145- 2010.*

- Sadat SM**,** Zavvar M, **Pouriayevali MH**, Javadi F, Aghasadeghi MR, Khosravy MS, Amini S, Bahramali G, Zabihollahi R, Shafiee Ardestani M**.** Comparation and Optimization of Two Nestd-PCR Methods for Human Adenovirus Detection in HIV Positive Patients. 8th national biotechnology congress of I.R.Iran 2013.

- Sadat SM**, Pouriayevali MH**, Zavvar M, Aghasadeghi MR, Javadi F, Shafiee Ardestani M, Rahimi P, Davari M, Azizi Saraji AR, Hekmat S, Bolhassani A. Studying Prevalence of Rotavirus Infection in Iranian HIV positive Patients with Diarrhea 8th national biotechnology congress of I.R.Iran 2013.

- Sadat SM**,** Zavvar M, **Pouriayevali MH**, Aghasadeghi MR, Sadrari J, Javadi F, Mostafavi E, Azizi Saraji AR, Memarnejadian A, Motevalli F**,** Vahabpour R.Studying the prevalence of Enteric Adenoviruses among Iranian HIV infected patients with Gastroenteritis 8th national biotechnology congress of I.R.Iran 2013.