



## CURRICULUM VITAE

نام و نام خانوادگی: محمد حسن (حمید) شاه حسینی

تاریخ و محل تولد: 1344/12/1، ایران/تهران

ملیت و مذهب: ایرانی / شیعه

وضعیت تاهل: متأهل (2 فرزند)

Family name: Shahhosseiny Name: Mohammad Hassan

Date and place of birth: 20/02/ 1966 Tehran-Iran

Nationality: Iranian

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### 1- دوره (زندگی) حرفه ای آکادمیک (Professional Career)

- ✓ مربی در گروه بیولوژی سلولی مولکولی (رشته بیولوژی سلولی مولکولی با گرایش سلولی و مولکولی و گرایش میکروبیولوژی) - دانشکده علوم - دانشگاه امام حسین - از سال 1370 الی 1376
- ✓ -استادیار در گروه بیولوژی سلولی مولکولی (رشته بیولوژی سلولی مولکولی با گرایش سلولی و مولکولی و گرایش میکروبیولوژی) - دانشکده علوم - دانشگاه امام حسین - از سال 1376 تا 1382/7/16
- ✓ استادیار در گروه میکروبیولوژی - دانشکده علوم دانشگاه آزاد اسلامی واحد شهر قدس - از سال 1383
- ✓ دانشیار در گروه میکروبیولوژی - دانشکده علوم دانشگاه آزاد اسلامی واحد شهر قدس - از سال 1388
- ✓ استاد (پروفسور) در گروه میکروبیولوژی - دانشکده علوم دانشگاه آزاد اسلامی واحد شهر قدس - از سال 1395

### 2- وضعیت تحصیلی

- ✓ -لیسانس (B.Sc) رشته میکروبیولوژی از دانشکده علوم دانشگاه تهران (1368)
- ✓ -فوق لیسانس (M.Sc) رشته باکتریولوژی پزشکی از دانشکده بهداشت دانشگاه تهران (1370)
- ✓ -دکتری تخصصی (Ph.D) در رشته بیوتکنولوژی (فرآورده های بیولوژیک) از انستیتو پاستور ایران، تهران/ایران (1376)
- ✓ -مستر NLP از آکادمی پروفیسور عمرایی
- ✓ -دانشجوی POSTDBA تربیت مدرس از 1399 تا حال (اتمام در 1400)

### 3- مهارت‌های ویژه و علاقمند یهای تحقیقی و کاری (Special skills and research interest)

- ◀ تجربیاتی در زمینه روشهای میکروبیولوژی تشخیصی متداول و مولکولی و بیولوژی مولکولی، مانند کلونینگ و بیان ژنهای پروکاریوتها در میزبانهای پروکاریوت، روشهای ایمونولوژی و سنجشهای بیولوژیک (Bioassay).
- ◀ مدتها در زمینه تهیه نسل جدید واکسن ویا که واکسن نوترکیب میباشد (یعنی Whole cell بعلاوه زیر واحد B نوترکیب انتروتوکسین و بیبریو کلرا) تحقیق کرده و مقالاتی در این زمینه دارم. در این پروژه که تز دکتری هم بود موفق به کلونینگ و بیان کلرا توکسین و همینطور زیر واحد B انتروتوکسین

ویبریو کلراهای بومی ایران شدم. تمام مراحل این پروژه شامل PCR ژن CT و CTB، کلونینگ (Cloning)، بیان (Expression)، خالص سازی rCTB از طریق Affinity Chromatography، ایمونوبلاتینگ (Immunoblotting)، GM1-ELISA، بررسی فعالیت بیولوژیک (Biological Activity) و، و Large Scale Production بوسیله فرماتور، با موفقیت انجام پذیرفت.

◀ در زمینه جداسازی و تعیین هویت میکروارگانیسرها از نمونه های کلینیکی و محیطی، خصوصا میکروارگانیسرهای بیماریزا دارای تجربیاتی چند هستم. سالها بر روی روشهای همانند سازی اسیدهای نوکلئیک در شرایط In-vitro مانند PCR و مشتقات آن در زمینه میکروبیولوژی مولکولی تشخیصی و ساخت کیت های مربوط، متمرکز شده ام.

◀ بین سالهای 1376 الی 1383 مدیر تولید شرکت سیناژن بودم و در این شرکت بیش از 50 محصول مانند 12 کیت PCR و RT-PCR مثل کیت تشخیص مولکولی Hepatitis C virus - Hepatitis B virus - Mycobacterium tuberculosis - HIV - Helicobacter pylori - Sex determination - Herpes Simplex Virus I & II - salmonella spp. - Cytomegalovirus Restriction Enzyme، چندین کیت استخراج DNA و RNA و سایر قرآورده ها را تولید نمودم.

◀ شرکت های ندای فن (در زمینه واردات و فروش محصولات بیولوژی مولکولی و بیوتکنولوژی) و آریا سینا پژوهش (در حوزه استانداردسازی آزمایشگاهها و مراکز تولید فرآورده های بیولوژیک) و دانشگاه غیر دولتی ربع رشیدی (با 19 رشته کارشناسی و ارشد) را در تبریز در سال 1386 تاسیس نمودیم...

◀ در سال 1390 موسسه ایرانیان ژن فنآور را جهت تولید کیت های تشخیص مولکولی تاسیس نمودم. این موسسه در سال 1393 دانش بنیان شد...

کیت های تولیدی (تولیدی 66 نوع کیت در 5 گروه) عبارت بودند از:

- ✓ کیت های تشخیص PCR باکتریال (مجموعا 40 کیت برای تشخیص 40 جنس یا گونه باکتریایی)
- ✓ کیت های تشخیص PCR سیانوباکترها و توکسینها (مجموعا 6 کیت برای تشخیص سموم سیانوباکترها)
- ✓ کیت های تشخیص PCR استافیلوکوکوس اورئوس مقاوم به متی سیلین و بتا لاکتامازهای با طیف وسیع (مجموعا 5 کیت)
- ✓ کیت های تشخیص PCR ویرال (مجموعا 7 کیت برای تشخیص 7 جنس یا گونه ویروسی)
- ✓ کیت های تشخیص PCR قارچها (مجموعا 8 کیت برای تشخیص 8 جنس یا گونه قارچی)

#### 4-سوابق و تجربیات آموزشی (Teaching Experience)

از سال 1370 دروس زیر را در دانشگاه (بیش از 23 دانشگاه) تدریس نموده ام

General Microbiology + Lab (3+1)	B.s
Microbiology 1 + Lab(3+1)	B.s
Microbiology 2 + Lab(3+1)	B.s
Bacteriology 1 + Lab(2+1)	B.s
Bacteriology 2 + Lab(2+1)	B.s
Industrial Microbiology + Lab(2+1)	B.s & M.s
Applied Microbiology + Lab(2+1)	B.s & M.s
Environmental Microbiology + Lab(2+1)	B.s
Biological Defence (2)	B.s
Cell Biology(3)	B.s
Molecular Biology(2)	B.s & M.s
DNA Replication	M.s
Biotechnology(2)	M.s & B.s
Genetic of Microorganisms(2)	M.s & Ph.D (Microbiology)
Genetic Engineering(2)	M.s & Ph.D (Genetic)
Specific Subjects(3)	Ph.D (Marine Biology)
Microbiology Texts Study(2)	B.s
Virology(2)	B.s
Genetic 2 + Lab (3+1)	B.s
Bionanotechnology(2)	B.s
Molecular Genetic	Ph.D (Genetic)
Supplemental Genetic engineering	Ph.D (Cell & Molecular biology)
Biotechnology & Genetic Engineering	Ph.D (Genetic)
Application of Biotechnology & Genetic Engineering	Ph.D (Plant Physiology)
Microbial Biotechnology	Ph.D
Medical Genetic (2 unit)	MD
Fermentation Technology	M.s
Eukaryote Genetic Engineering	M.s
Advanced Bacteriology	Ph.D

## **CONFERENCE PROCEEDINGS**

- 1- Shahhosseiny MH, Salari, M. (1992). Evaluation of anaerobic bacteria in bacterial vaginosis between patients and controls. Proceeding of the Third conference of Tropical and Infectious Diseases, Semnan/IRAN.
- 2- Shahhosseiny MH, Salari M, (1992). Introducing of simple method for diagnosis of bacterial vaginosis. Proceeding of the First conference of Iran Society for Microbiology, Sari/IRAN.
- 3- Shahhosseiny MH, Tabarraei B, Rechinsky V. (1997). Molecular cloning and expression of the enterotoxin of *Vibrio cholerae* O1 isolated recently in IRAN. Proceeding of the first seminar of Infectious Diseases in War and Unexpected Events, Bagiyatalah Medical Science University, Tehran/IRAN.
- 4- Shahhosseiny MH. (13-15 May, 1998). Expression of cholera toxin B-subunit gene of *Vibrio cholerae* and immunological evaluation as a basis for oral vaccine. Proceeding of the Fourth International Congress of Immunological and Allergy, Isfahan/IRAN.
- 5- Shahhosseiny MH, Akbari MR, Rechinsky V. (1998). Construction of plasmid pSCTB. Proceeding of the Seventh Biology Conference, Isfahan/IRAN.
- 6- Shahhosseiny MH. (1998). Bioterrorism: Outcomes of economic and security.' Proceeding of the Seminar Control and Disarmament and Outcomes of National Security, Imam Hossein University, Tehran/IRAN.
- 7- Shahhosseiny MH. (2000). Bioterrorism: Inevitable Alliance. Proceeding of the First Congress of National Health and Prophylactic medicine, Kermanshah/IRAN.
- 8- Shahhosseiny MH. (2000). The new generation of Biologic and Toxin Weapons. Proceeding of the First Congress of National Health and Prophylactic medicine, Kermanshah/IRAN.
- 9- Shahhosseiny MH. (2000). Bioterrorism: The specter of Biological Warfare. Proceeding of the congress Evaluation of legal Aspects of International Terrorism, Ministry of Foreign Affairs, Tehran/IRAN.
- 10- Shahhosseiny MH. (2000). The outcomes of health medical of bioterrorist attack. Proceeding of the Congress "The Role of Basic Science in Modern Wars Defence" Imam Hossein University, Tehran/IRAN.
- 11- Shahhosseiny MH. (2000). Military biotechnology: the dark side of genetic engineering. Proceeding of the Congress "The Role of Basic Science in Modern Wars Defence" Imam Hossein University, Tehran/IRAN.
- 12- Shahhosseiny MH. (2000). Historical review on application of microbial agents in warfare and bioterrorist operations.' Proceeding of the Congress "The Role of Basic Science in Modern Wars Defence" Imam Hossein University, Tehran/IRAN.
- 13- Shahhosseiny MH. (2000). Toxin and biological agents using in warfare. proceeding of the Congress "The Role of Basic Science in Modern Wars Defence" Imam Hossein University, Tehran/IRAN.
- 14- Shahhosseiny MH. (2000). Biological disarmament convention and modern war: perspective and indications for future. proceeding of the Congress "The Role of Basic Science in Modern Wars Defence" Imam Hossein University, Tehran/IRAN.
- 15- Tehrani R, Azizi A, Shahhosseiny MH, Jahani M, Estakizadeh A, Mobtaker H. (3-5 Jan. 2002). Construction of RT-PCR kit of Hepatitis C Virus. Proceeding of the 10<sup>th</sup> Iranian Congress on Infectious Diseases and Tropical Medicine, Tehran/IRAN.
- 16- Tehrani R, Azizi A, Shahhosseiny MH, Jahani M, Estakizadeh A, Mobtaker H. (3-5 Jan. 2002). Construction of PCR kit of Hepatitis B Virus.' Proceeding of the 10<sup>th</sup> Iranian Congress on Infectious Diseases and Tropical Medicine, Tehran/IRAN.
- 17- Shahhosseiny MH. (2001). Mass destruction and Bioterrorism: the shadows of hallucination or reality. Proceeding of the National Seminar of Military Medicine. Tehran/IRAN.
- 18- Shahhosseiny MH. (2001). Bioterrorism: the dark side of microbiology. Proceeding of the Bioterrorism congress. Tehran/IRAN.
- 19- Shahhosseiny MH. (6-8 Nov 2001). Amplification methods in diagnostic microbiology. Proceeding of the 4th Congress of the Microbiology, Tehran/IRAN.
- 20- Shahhosseiny MH. (6-8 Nov 2001). Nucleic acid amplification methods: revolution in diagnostic bacteriology. Proceeding of the 4th Congress of the Microbiology, Tehran/IRAN.
- 21- Shahhosseiny MH. (2001). Decontamination methods in biological warfare. Proceeding of the First Congress of Military Nursing, Tehran/IRAN.
- 22- Shahhosseiny MH. (2001). Biological and toxin agents in biological warfare. Proceeding of the First Congress of Military Nursing, Tehran/IRAN.
- 23- Shahhosseiny MH. (2001). Molecular detection of Hepatitis C Virus. Proceeding of the Second Iranian International Congress of Kidney & Digestion Diseases, Tehran/IRAN.
- 24- Shahhosseiny MH. (2002). What is bioterrorism. Proceeding of the Bioterrorism Seminar, Tehran/IRAN.
- 25- Shahhosseiny MH. (2002). Medical and hygiene threat of biological weapons and bioterrorism. Proceeding of the congress of the Health and Military hygiene, Tehran/IRAN.
- 26- Shahhosseiny MH, Tehrani R, Jazayeri H, Karimi A, Bahremand AR, Mobtaker H, Azizi A, Mahboudi F. (7-9 Oct 2002). Diagnosis of *Mycobacterium tuberculosis* in doubtful patients sputum using PCR on the basis of IS6110. Proceeding of the congress of Military Medicine, Tehran/IRAN.
- 27- Shahhosseiny MH, Rezaei Y, Tehrani M, Keivani H, Nachjavani F, Mobtaker H. (7-9 Oct 2002). Diagnosis of Herpes simplex virus encephalitis by PCR using primers for the DNA polymerase gene. Proceeding of the congress of Military Medicine, Tehran/IRAN.
- 28- Shahhosseiny MH. (7-9 october 2002). Bioregulators: new generation of bioterrorism agents. Proceeding of the congress of Military Medicine, Tehran/IRAN.
- 29- Shahhosseiny MH, Tehrani M. (19-21 Oct 2002). Real Time polymerase chain reaction. Proceeding of the first national congress on improving the quality in clinical laboratories, Tehran/IRAN.
- 30- Tehrani M, Shahhosseiny MH. (19-21 Oct 2002). Molecular diagnostics laboratory establishing. Proceeding of the first national congress on improving the quality in clinical laboratories, Tehran/IRAN.

- 331- Shahhosseiny MH. (26-28 Oct 2002). Evaluation of mutagenic properties of Tehran air by Ames test. Proceeding of the 5th national congress of Environmental Health, Tehran/Iran.
- 32- Shahhosseiny MH. (31 Oct 2002). Bioterrorism:generalities. Proceeding of the Health and Treatment of Bioterrorism, Medical Sciences university of Oromieh, Tehran/Iran.
- 33- Shahhosseiny MH. (31 Oct 2002). Novel diagnosis of Bioterrorism agents. Proceeding of the Health and Treatment of Bioterrorism, Medical Sciences university of Oromieh, Tehran/Iran.
- 34- Shahhosseiny MH. (11 october 2002). Current and new identification laboratory methods for bioterrorism agents. Proceeding of the National Congress of Defence preparedness against Bioterrorism , Imam Hossein University ,Tehran/Iran.
- 35- Shahhosseiny MH. (11 october 2002). Iraq Biological Weapons. Proceeding of the National Congress of Defence preparedness Against Bioterrorism , Imam Hossein University ,Tehran/Iran.
- 36- Shahhosseiny MH. (December 17-19, 2002). Diagnostic molecular methods to the epidemic recognition. Proceeding of the First Congress ' From Bed to Bench in Gastroenterology' Tehran/Iran.
- 37- Shahhosseiny MH. (JAN 21-23, 2003). Construction of Mycobacterium tuberculosis PCR KIT. Proceeding of the 5th national Iranian Congress of Microbiology , Ahvaz/Iran.
- 38- Shahhosseiny MH. (JAN 21-23, 2003). The role of the microbiology laboratory and methods in managing preparedness against biological terrorism. Proceeding of the 5 th national Iranian Congress of Microbiology , Ahvaz/Iran.
- 39- Shahhosseiny MH. (2003). Managing preparedness in against biological terrorism. Proceeding of the first national Iranian Congress of RESCUE, Tehran/Iran.
- 40- Shahhosseiny MH. (2003). Construction of internal control and hepatitis B virus PCR detection kit. Proceeding of the first national Iranian Congress of Cell and molecular Biology, Ahvaz/Iran.
- 41- Shahhosseiny MH, Rahimi AA, Ahangari G, Tehrani R. (2003). Sex determination by nested PCR and amelogenin gene. Proceeding of the first national Iranian Congress of Cell and molecular Biology, Ahvaz/Iran.
- 42- Shahhosseiny MH. (2003). Prophylaxis: loss circle in managing against biological warfare and bioterrorism. Proceeding of the first national Congress of hygiene, treatment and crisis management in inevitable alliance. Tehran/Iran.
- 43- Shahhosseiny MH. (2003). Environmental decontamination from microbial agents. Proceeding of the first national Congress of hygiene, treatment and crisis management in inevitable alliance. Tehran/Iran.
- 44- Shahhosseiny MH. (2003). Construction of internal control and HSV I & II PCR detection kit. Proceeding of the 3 th national Iranian Congress of Biotechnology , Mashhad/Iran.
- 45- Tehrani R, Shahhosseiny MH, Rahimi AA, Azizi A, Mobtaker H, Mahboudi F. (2003). Production of DNA extraction solution for whole blood. Proceeding of the 3 th national Iranian Congress of Biotechnology , Mashhad/Iran.
- 46- Rahimi AA, Ahangari G, Shahhosseiny MH, Tehrani R, Azizi A, Mahboudi F. (2003). Construction of sex determination PCR kit. Proceeding of the 3 th national Iranian Congress of Biotechnology , Mashhad/Iran.
- 47- Azizi A, Tehrani R, Shahhosseiny MH, Rahimi A A. (2003). Construction of HIV1 PCR kit. Proceeding of the second national Iranian Congress of Virology , Tehran/Iran.
- 48- Soltani-banavandi MJ, Shahhosseiny MH, Shahbazzadeh D, Rahimi AA, Abachi M, Javadi G. (15-17 June 2004). Rapid diagnosis of Salmonella typhi by molecular techniques. Proceeding of the national Iranian Congress of Medical Laboratories: past, present, future. Tehran/Iran.
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- 50- Shahhosseiny MH. (23-25 Nov 2004). The role of the microbiology laboratory and methods in managing preparedness against biological terrorism. Proceeding of The 2nd international Congress on Health, Medication and Crisis management in Disaster incidents , Tehran-Razi conference-center, Tehran /Iran
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- 53- Shahhosseiny MH. (21-23 Dec 2004). Real Time PCR and molecular pathology. Proceeding of The Annual Pathology Seminar, Milad Hospital conference-center, Tehran /Iran.
- 54- Shahhosseiny MH. (21-23 Dec 2004). Microarray and Genechips. Proceeding of The Annual Pathology Seminar, Milad Hospital conference-center, Tehran /Iran.
- 55- Shahhosseiny MH. (30 Nov - 1 Dec 2004). Novel diagnosis methods of biological agents. Proceeding of The 2nd congress of Defence against biological agents , Tehran-imam Hossein university, Tehran /Iran.
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- 58- Shahhosseiny MH. (1-3 Feb,2005). Diagnostic Molecular Microbiology laboratory Establishing" Proceeding of the 7 th national Iranian Congress of Microbiology, Semnan/Iran.
- 59- Shahhosseiny MH. (16-17 Feb, 2005). Biotechnology, Bioterrorism and Biosafety. Proceeding of the First National Biosafety Congress of Iran , Agriculture Biotechnology Research Institute of Iran, Karaj/Iran.
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- 71- Shahhosseiny M H. (1-3 Feb. 2006). Molecular Diagnostics in virology. Proceeding of The 4th National Congress on Improving The Quality in Clinical Laboratories; Tehran / IRAN.
- 72- Ghavam-Mostafavi PG, Fatemi MR, Shahhosseiny MH, Loh WK, Hoegh-Guldberg O. (5-7 March. 2006). Genetic diversity of symbiodinium from coral reefs off Kish island, the Persian Gulf, IRAN. Proceeding of The first international conference on THE STATE OF THE GULF ECOSYSTEMS: FUTURE and THREATS Al Ain, United Arab Emirates.
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- 74- Ghavam-Mostafavi PG, Loh WK, Shahhosseiny MH, Fatemi MR, Hoegh-Guldberg O. (4-10 Aug. 2006). The presence of Symbiodinium clade D in dominant coral reefs off larak island, the Persian Gulf IRAN. Proceeding of The 5th international Symbiosis Society. Vienna universitat/ Austeria.
- 75- Shahhosseiny MH. (2-4 Nov. 2006). Rapid and simple detection of mycoplasma pneumoniae pneumonia by PCR. Proceeding of The 2nd congress of Iranian Cancer Association and 8th Congress of Iranian Society of Pathology. Tehran/IRAN.
- 76- Shahhosseiny MH. (2-4 Nov. 2006). Relationships between Anti-CCP positive test in rheumatoid arthritis and Mycoplasmas by molecular diagnosis. Proceeding of The 2nd congress of Iranian Cancer Association and 8th Congress of Iranian Society of Pathology. Tehran/IRAN.
- 77- Dorraji E, Lellahi M, Shahhosseiny MH. (2-4 Nov. 2006). Nanobacteria:smallest novel pathogen . Proceeding of The 2nd congress of Iranian Cancer Association and 8th Congress of Iranian Society of Pathology. Tehran/IRAN
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- 79- Mohammadi A, Shahhosseiny MH. (2-4 Nov. 2006). Microarray for pathologists. Proceeding of The 2nd congress of Iranian Cancer Association and 8th Congress of Iranian Society of Pathology. Tehran/IRAN.
- 80- Daemi-Tusinejad SM, Shahhosseiny MH. (2-4 Nov. 2006). Bioinformatic in pathology. Proceeding of The 2nd congress of Iranian Cancer Association and 8th Congress of Iranian Society of Pathology. Tehran/IRAN.
- 81- Shahhosseiny MH. (4-6 Jan. 2007). Applications of nanoparticle in medicine and laboratory. Proceeding of The 5th National Congress on Improving The Quality in Clinical Laboratories; Tehran / IRAN.
- 82- Shahhosseiny MH, Tehrani M. (4-6 Jan. 2007). Nanobacteria laboratory diagnosis methods. Submitted to The 5th National Congress on Improving The Quality in Clinical Laboratories; Tehran / IRAN.
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101- پاشا طالبی چرمچی ، محمد حسن شاه حسینی ، مهسا ملک محمدی کلهرودی ، هدا کاووسی 1398 و ارزیابی اثر تریب ناشی از مایکوباکتریوم توپرکلوزیس با استفاده از روش مولکولی ، مجله تازه های بیوتکنولوژی سلولی مولکولی (ازاد پرند) - (Accept)

102- مصطفی خوش بین ، محمد حسن شاه حسینی ، منصوره پاکنژادی ، 1398 ، تشخیص مولکولی هلیکوباکتر پیلوری در Semen مردان نابارور ، مجله تازه های بیوتکنولوژی سلولی مولکولی (ازاد پرند) - (Accept)

## Project

- Construction of Sex Determination PCR Kit
- Construction of Herpes Simplex Virus PCR detection Kit
- Construction of internal control of Hepatitis B Virus PCR detection Kit
- Construction of internal control of Hepatitis C Virus RT-PCR detection Kit
- Construction of internal control of HIV RT-PCR detection Kit
- Construction of internal control of CytoMegalovirus PCR detection Kit
- Construction of DNA Extraction Kit
- PCR diagnosis of Mycoplasma pneumoniae and Mycoplasma spp.
- Assesment of adjuvant effects of IMOD, AngiPars and STP
- Molecular diagnosis of symbiotic dinoflagellate (Zooxanthellae) in shallow-water reef-building corals of certain northern Persian Gulf islands
- LAMP detection Of Hepatitis B virus
- LAMP detection Of Cryptococcus neoformans

## Students (Thesis)

-Ms Student 140  
-Ph.D Student 25

## Workshop

برگزاری بیش از 80 کارگاه آموزشی

-To dispose of Three Workshop in 4<sup>th</sup> Congress of the Microbiology (Nov, 6-8 2001), Tehran/IRAN

- 1) 'The basic data of molecular detection and PCR Technique (one day)'
- 2) 'PCR detection of Mycobacterium tuberculosis (one day)'
- 3) 'PCR detection of Helicobacter pylori (one day)'

-To dispose of Two Workshop in Azad Islamic University (2001), Tehran/IRAN

- 1) 'The basic data of molecular detection and PCR Technique (one day)'
- 2) 'RT-PCR (Two day)'

-To dispose of Three Workshop in 6<sup>th</sup> Iranian International Congress of immunology and allergy, (2002) Tehran/IRAN.

- 1 'The basic data of molecular detection and PCR Technique (one day)'
- 2 'PCR detection of mycobacterium tuberculosis (one day)'
- 3 'PCR detection of hepatitis B virus (one day)'

-To dispose of Three Workshop in 7<sup>th</sup> Congress of the Microbiology (feb, 1-3 ,2005), Semnan/IRAN

- 4) 'The basic data of molecular detection and PCR Technique (one day)'
- 5) 'PCR detection of Mycobacterium tuberculosis (one day)'
- 6) 'RT-PCR detection of Hepatitis C Virus (one day)'
- 7)

-To dispose of Workshop in 16<sup>th</sup> Congress of the physiology and pharmacology , Tarbiat modarres/IRAN

-To dispose of 23 Workshop in Cinnagen Inc. between 2001-2004 in the field of in vitro nucleic acid amplification techniques. Tehran/IRAN

-To dispose of one Workshop in 4<sup>th</sup> Congress on Improving The Quality in Clinical Laboratories; (1-3 Feb. 2006), Tehran / IRAN.

-To dispose of four Workshop (each three days) in Azad Islamic University/Shahr-e-Qods Branch (2009-2010), IRAN

- 1) 'T/A Cloning (3 day)'
- 2) 'Molecular diagnosis 1 (3 day)'
- 3) 'Molecular diagnosis 2 (3 day)'
- 4) 'Molecular diagnosis 3 (3 day)'

-To dispose of Workshop (four days) in Azad Islamic University/Rasht Branch (2010), Rasht/IRAN

Title: Molecular diagnosis of infectious disease

-To dispose of Workshop (four days) in Iranian scientific Association of Clinical Laboratory (IACLD) (2015), Tehran/IRAN

Title: Quality Assurance Molecular Biology Laboratory

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