

# In The Name Of God

## Curriculum Vitae

Name: Masoumeh Rajabi Bazl

### **Work Address:**

Department of Clinical Biochemistry  
Faculty of Medicine, Shahid Beheshti University of Medical Sciences , Tehran. Iran.

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Citizenship: Iran

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### **Education:**

2002-2007, Tarbiat Modares University, Tehran, Iran

PhD, Clinical Biochemistry

1999-2002- Tarbiat Modares University- Tehran-Iran

MSc, Clinical Biochemistry

1998- Shaheed Beheshti University of Medical Sciences - Tehran- Iran

BSc, Laboratory Sciences

### **Languages:**

English

### **PhD thesis:**

“Development and construction of viral and eukaryotic vectors containing lysozyme signal single domain antibody-GFP fusion for transduction of avian embryonic cells and expression confirmation in CHO cells”

### **MSc thesis:**

“Development Immunochromatography rapid test for detection of morphine in urine and saliva”

### **Research Interests:**

Molecular Cloning

Recombinant Virus

Antibody

Rapid Test

ELISA

Development of Immunochromatography Test

Recombinant Protein  
Nanotechnology  
Phage Display  
Recombinant Protein Expression

## **Research Experience**

-Project Entitled "Production and Purification of IgY in Egg Yolk against Morphine "- Supported by Tarbiat modares university (2000-2002)-

- Project Entitled "Development and Production of Morphine Immunochromatography Test in Urine and Saliva .Supported by Ministry of Industry And Mining (2000-2002).

- Project Entitled "Usage of Mesenchymal Stem Cells as a Vehicle for gene transferring in Cancer therapy.(Accepted)(Co-investigator).

-Project Entitled" Developing Rapid detection two purpose kit for serodiagnosis of Hydatid Cyst and Echinococcus granulosus using protoscolex recombinant Antigen and gold nano particles conjugated antibody".(Submitted)(Co-investigator).

- Project Entitled" Production of Recombinant Nanobodies Library against breast, colon and prostate cancer antigens. (Accepted)(Co-investigator).

- Project Entitled" Molecular and serological characterization of Iranian Borna disease virus among schizophrenia patients. . (Accepted)(Co-investigator).

- Project Entitled" Production of Recombinant EGF. (Accepted)( investigator).

- Project Entitled" Molecular and serological characterization of Iranian Borna disease virus among schizophrenia patients. . (Accepted)(Co-investigator).

- Production of Vnar phagmid library from IgNAR heavy antibodies against prostate, colon and rectum cancer antigens (Accepted)(Investigator).

## **Technical Skills:**

-Nano particles

-Ab production (Monoclonal and polyclonal)

- Designing Immunochromatography kits for detection (rapid test)

- Molecular biology (PCR, RT-PCR, Sub-cloning and Cloning, Eukaryotic expression, Western blotting)

- Cell Biology [cell culture (Cell line and primary), Transfection into the cells]

- ELISA

-Protein purification [Chromatography (Gel filtration, Ion-Exchange, Affinity), PAGE, SDS\_PAGE)

-Recombinant virus

Phage Display

## **Workshops Instructions**

1-The Workshop Entitled " ELISA And Its Applications. Tarbiat modares University.Tehran. IRAN. (2002).

2-The Workshop Entitled " The Application of Molecular Biology in Physiology."Organized by 16<sup>th</sup> Iranian Congress of Physiology And Pharmacology.Tehran. I.R.IRAN. (2002).

3-The Workshop Entitled " Production and large scale preparation of Monoclonal Antibodies to be used as diagnostic and treatment reagent ".Organized by Department of Medical Biotechnology, School of Medical Sciences ,Tarbiat Modarres University.Tehran.I.R.IRAN. (2003).

4-The Workshop Entitled "Recombinant Antibody". Tarbiat Modarres University.Tehran.IRAN. (2004).

5- Organizer in 8<sup>th</sup> Iranian Congress of Biochemistry and the First International Congress of Biochemistry & Molecular Biology, Tehran, I.R.Iran 2005.

6-The Workshop Entitled "Gene to Protein". Tarbiat Modarres University.Tehran.IRAN. (2006).

7-The 6<sup>th</sup> IBRO-Associate school and 1<sup>st</sup> Workshop Neuroscience summer program.Tarbiat Modarres University.Tehran.IRAN. (2006).

8- The Workshop entitled "Quality Control ".Organized by Department of Medical Biochemistry, School of Medical Sciences, Tehran University of medical sciences. Tehran.I.R.IRAN. (2009).

## **Teaching Experience**

2001-Present: Teaching Biotechnology and Immunochemistry to M.Sc students in Tarbiat Modarres University, Tehran, Iran.

2007-present: Teaching advanced molecular technique to Ph.D students in Tarbiat Modarres University, Tehran, Iran.

2007-present: Teaching Advanced molecular biology to Ph.D students in Tarbiat Modarres University, Tehran, Iran.

2007-present: Teaching fungal biotechnology to mycology Ph.D and M.Sc students in Tarbiat Modares University, Tehran, Iran.

2007-present: Teaching Biochemistry I, II to B.S. students, Tehran, Iran.

2007-present: Teaching Biotechnology to B.S. students, Tehran, Iran.

2009-present:Teaching Biochemistry to M.Sc students, Tehran, Iran.

2010-present:Teaching Cell culture to M.Sc students , Tehran, Iran.

2010-present: Teaching Advance Techniques in Biochemistry to M.Sc Students. Tehran, Iran.

2010-Teaching Molecular Medicine to medical students (Elective course).Tehran, Iran.

2011-Teaching Recombinant Protein and application in medical scope. (Elective course).Tehran, Iran.

2011: Teaching Biochemistry to Ph.D. students. Tehran, Iran.

2010-Present:Teaching Biochemistry I, II to student of medicine , Tehran, Iran

2010-Present:Teaching Biochemistry I, II to student of dentistry , Tehran, Iran

2010-present: Teaching Molecular Biology to M.Sc Students. Tehran, Iran.

2011-present: Teaching Bioinformatics to M.Sc Students. Tehran, Iran.

2011-present: Teaching Hormone to M.Sc Students. Tehran, Iran.

2013-present: Teaching Immunochemistry to M.Sc Students. Tehran, Iran.

2013-present: Teaching Immunochemistry to Ph.D Students. Tehran, Iran.

2013-present: Teaching Molecular Biology to Ph.D Students. Tehran, Iran.

### **Grades:**

- The third rank in National B.Sc entrance exam
- Simultaneous acceptance in Medical Biotechnology& Clinical Biochemistry in MS.c entrance exam
- The first rank in Ph.D entrance exam
- The first rank in Ph.D graduated students
- Considered as Exceptional Talent student

### **Publications:**

Shahi B, Mousavi Gargari SL, Rasooli I, **Rajabi Bazl M**, Hoseinpoor R. Random mutagenesis of BoNT/E Hc nanobody to construct a secondary phage-display library. J Appl Microbiol. 2014 Apr 25. doi: 10.1111/jam.12526. [Epub ahead of print]

Omran MD, Azizi F, **Rajabibazl M**, Safavi Naini N, Omrani S, Abbasi AM, Saleh Gargari S.Can we rely on the multiplex ligation-dependent probe amplification method (MLPA) for prenatal diagnosis?. Iran J Reprod Med. 2014 Apr; 12(4):263-8.

Baghban R, Gargari SL, **Rajabibazl M**, Nazarian S, Bakherad H. Camelid-derived heavy chain nanobody against Clostridium botulinum neurotoxin E in Pichia pastoris. *Biotechnol Appl Biochem*. 2014.

Behroz Alirezapour, **Masoumeh Rajabibazl**, Mohhamad Javad Rasaee, Kobra Omidfar. Production and characterization of Recombinant scFv Against Digoxin by Phage Display Technology. *Monoclonal Antibodies in Immunodiagnosis and Immunotherapy* Volume 32 #3.2013,172-179.2013

,Seyed Latif Mousavi Gargari,Iraj Rasooli, **Masoumeh Rajabi** Leila Safaee Ardekani **Bazl**, , Mohammad Mohammadi, Walead Ebrahimizadeh , Leila Safaee Ardakani, Hamed Zare A novel nanobody against urease activity of *Helicobacter pylori*. *International Journal of Infection Disease*. 2013 volume 17 – page 723-728 .2013

Azam Janipour,Mahnaz Mazaheri Assadi,Hamideh Ofoghi,Mohammad Reza Kalbassi,Hoda Ahmadi Behazin,**Masoumeh Rajabibazl**,Hale Kosari Molecular Identification of *Dunaliella* Species in Some ranian Salt Lakes *European Journal of Scientific Research*.ISSN 1450-216X / 1450-202X Vol. 103 No 4 June, 2013, pp.570-580.2013

**Masoumeh Rajabibazl**, Mohammad Javad Rasaee, Mehdi Forouzandeh , Azam Rahimpour Retroviral transduction of Fluonanobody and the Variable Domain of Camelid Heavy-Chain Antibodies to chicken embryonic cells *IJI* Vol(10)-No(4) ;page 247- 58. .2013

Sara Mohammadzadeh, **Masoumeh Rajabibazl** , Mehdi Fourozandeh ,Mohammad Javad Rasaee,Mohammad Mohammadi.Production of Recombinant scFv Against p24 of Human Immunodeficiency Virus Type1 by Phage Display Technology.*Monoclonal Antibodies in Immunodiagnosis and Immunotherapy* .2014

Hamed Zare, **Masoumeh Rajabibazl**, Iraj rasooli , Mohammad Mohammadi, Walead Ebrahimizadeh ,Hamid Bakherad, Leila Safaee Ardakani, Seyed Latif Mousavi Gargari .Production of nanobodies against prostate-specific membrane antigen (PSMA) recognizing LnCaP cells. *Int J Biol Markers* 2013.2013

Taheripak G, Bakhtiyari S, **Rajabibazl M**, Pasalar P, Meshkani Protein tyrosine phosphatase 1B (PTP1B) inhibition ameliorates palmitate-induced mitochondrial dysfunction and apoptosis in skeletal muscle cells. *Free Radic Biol Med*, vol (65) , Page (1435-1446). R.2013

Fateme Araste, Walead Ebrahimizadeh, Iraj Rasooli , **Masoumeh Rajabibazl**, Seyed Latif Mousavi Gargari.A novel VHH nanobody against the active site (the CA domain) of tumor-associated, carbonic anhydrase isoform IX and its usefulness for cancer diagnosis.*Biotechnol Lett*,2013

Amini A, Heidari M.H. **Masoumeh Rajabibazl** ADand et al. detection of Protomic Biomarker in Fibroblast Cell Derived Nuclear Transfer Fertilization Compare by Nuclear Fertilization. *Journal of Applied Enviroment and Biological Sciences*. 2014

Payandeh Z, Mousavi M.L, Rasoli I, **Masoumeh Rajabibazl**. Ebrahimizadeh. Immunoreaction of a recombinant nanobody from camelid single domain antibody fragment with *Acinetobacter baumannii*. *Transactions of the Royal Society of Tropical Medicine and Hygiene* .2014

Neurizadeh A, Mesbah Namin A, Taheri A, **Masoumeh Rajabibazl** , Taheri T . Non-viral human proGDNF gene delivery to rat bone marrow stromal cells under ex vivo conditions. *Journal of the neurological sciences*. 2014

Reyhaneh Hoseinpoor , Mousavi M.L, Rasoli I, **Masoumeh Rajabibazl**, Bahareh Shahi. Functional mutations in and characterization of VHH against *Helicobacter pylori* urease. *Applied Biochemistry and Biotechnology*. 2014

Walead Ebrahimizadeh, Masoumeh Rajabibazl. Bacteriophage vehicles for phage display: Biology, mechanism and application. *Current Microbiology* .2014

Aslani Peyman, Yadegari Mohammad Hossein, **Rajabibazl Masoumeh**. Investigation the effect of echynophora platyloba & satureja bachtiarica on MDR1 & ERG11 gene expression in fluconazole resistance clinical isolates *Candida albicans* using Real time PCR. *European journal of Experimental Biology*. 2014

Hamid Bakherad, Seyed Latif Mousavi Gargari I, Iraj rasooli , **Masoumeh Rajabi Bazl**, Mohammad Mohammadi, Walead Ebrahimizadeh , Leila Safaee Ardakani, Hamed Zare. In vivo neutralization of Botulinum neurotoxins serotype E with Heavy chain camelid- antibodies (VHH), *Molecular Biotechnology*. 2013

Ebrahimizadeh W, Mousavi S, **Rajabibazl M**, Safaee Ardekani L, Zare H, Bakherad H. Isolation and characterization of protective anti-LPS nanobody against *V. cholerae* O1 recognizing Inaba and Ogawa serotypes. *Appl Microbiol Biotechnol*. 2012 Nov 8 [Epub ahead of print].

Amin Daemi, Sahar Hosseinzadeh, Sima Rafati, Farnaz Zahedifard, **Masoumeh Rajabi Bazl**, Fatemeh Doustdari, Mehrdad Hashemi, Elnaz Agi, Azam Bolhassani. HPV16 E7-CT (gp96) fusion protein: Molecular cloning, expression and purification of a recombinant 6xHis-tagged protein in *E. coli*. *Journal of Paramedical Sciences (JPS)* Spring 2012, Vol.3, No.2 ISSN 2008-49782.

Kowsar Shariati Mehr, Seyed Latif Mousavi, Iraj Rasooli, Jafar Amani and **Masoumeh Rajabi**. A DNA Vaccine against *Escherichia coli* O157:H7. *Iranian Biomedical Journal* 16 (3): 133-9.

Mallezadeh S.A, Yadegari MH, Mansouri P, **Rajabibazl M**, Kachuei R. Rapid Detection Of Trichophyton Rubrum in Clinical Samples From Tinea Ungium Using PCR. Short Communication. Modares Journal of Medical Pathobiology. 15(2), 2012

**Rajabi bazl M.**, Rasaee MJ., Tahi M. Development of Oral Morphine Rapid Test by using Yolk immunoglobulin. The journal of Applied Research. 2010, Vol 10, N(3).

**Rajabi bazl M.**, Rasaee MJ., Foruzandeh M., Rahimpour A. and Mohammadi M. Production of Chimeric Recombinant Single Domain Antibody-green fluorescent fusion Protein in Chinese Hamster Ovary Cells. Hybridoma, 2007 Feb; 26:1-9.

Mohammadi M., Rasaee MJ., **Rajabi bazl M.**, Paknejad M., Mohammadzadeh S., Zareh M. Epitope mapping of PR81 anti-muc1 monoclonal antibody following PEPSCAN and Phage display. 2007 Hybridoma, Vol 26, N(4):223-229.

Paknejad M., Rasaee M., Mohammadnejad J., Pour Amir M., **Rajabi Bazl M** and kahki M. Development and Characterization of Enzyme Linked Immunosorbent Assay for Aflatoxin B1 Measurement in Urine Sample Using Penicillinase as Label. The journal of Toxicological Sciences. Volume 33, Number 5 (2008).

Mohammadnejad J, Rasaee MJ, Saqhafi B, **Rajabi bazl M**, Omidfar K, Paknejad M. A new competitive enzyme linked immunosorbent assay (MRP83-CA15-3) for MUC1 measurement in breast cancer. Journal of Immunoassay and Immunochemistry. 2006; 27: 139-149.

Farahnejad Z., Rasaee MJ., Foruzandeh M, Paknejad M, Kashanian S, **Rajabi Bazl M**. Preparation and characterization of a monoclonal antibody against mannoprotein of Candida albicans. Hybridoma. 2005; 24:146-51.

Paknejad M., Rasaee MJ., Karami T., Kashanian S., Mohagheghi MJ., Omidfar K., and **Rajabi Bazl M**. Production of Monoclonal Antibody, PR81, Recognizing The Tandem Repeat Region of MUC, Mucin. Hybridoma and Hybridomics. 2003; 23:3, 153-157.

Kashanian S., Rasaee MJ., Paknejad M., Omidfar K., Pour Amir M. and **Rajabi Bazl M**. Preparation and Characterization of Monoclonal Antibody against Digoxin. Hybridoma and Hybridomics. 2002; 21:5, 375-379.

**Rajabi Bazl M.**, Rasaee MJ, Foruzandeh M. Development of Transgenic Chicken Using Recombinant Retrovirus Containing Fluonanobody : The Variable Domain of Camelid Heavy-Chain Antibodies Fused Green Fluorescent Protein. Journal of Biotechnology. **Manuscript was submitted.**

ابراهیمی زاده ولید، موسوی سید لطیف، **رجبی بذل معصومه**. نقش microRNA در پایداری و عملکرد سلول‌های بنیادی. مجله علمی و پژوهشی پزشکی و آزمایشگاه.

فرح بخش احسان، یادگاری محمد حسین، **رجبی بذل معصومه**. بررسی حساسیت سویه های کاندیدا آلیکنس جدا شده از بیماران ایدزی به داروی فلوکونازول و تعیین ژن CDR2 در سویه های مقاوم با روش واکنش زنجیره ای پلیمرز معکوس. مجله ارمان دانش. دانشگاه علوم پزشکی کهگیلویه و بویراحمد. 2011

طراحی و ساخت واکسن فاژی مهارکننده جهت سرطان پروستات : **مجله پژوهش در پزشکی**، دوره ۳۷، شماره ۱، بهار ۱۳۹۲. غلامرضا رفیعی ده بیدی، **معصومه رجبی بذل (نویسنده مسئول)**، سید لطیف موسوی، بهرام یغمایی .

تشخیص سریع و حساس اونیکومایکوزیس در نمونه های بالینی مشکوک به درماتوفیتوزیس ناخن (ترایکوفیتون رو بروم) با استفاده از روش PCR. **مجله علوم پزشکی مدرس**، دوره ۱۵، شماره ۲، تابستان ۱۳۹۱. سید علی معلم زاده، محمد حسین یادگاری، پروین منصوری، **معصومه رجبی بذل**، رضا کچوئی .. تابستان ۱۳۹۱

روش مولکولی ساده برای تایید شناسایی گونه های اصلی فارجهای کاندیدا، آسپرژیلوس و درماتوفیت. سید علی معلم زاده، محمد حسین یادگاری، **معصومه رجبی بذل**، رضا کچوئی. **مجله دانشگاه علوم پزشکی ارومیه**. ۱۳۹۳

فرح بخش احسان، یادگاری محمد حسین، **رجبی بذل معصومه**. شناسایی گونه های کاندیدا آلیکنس جدا شده از برفک بیماران ایدزی به داروی فلوکونازول با استفاده از دو روش ماکرودایلوشن و دیسک فیوژن.

## Conferences:

Development of Salivary Immunochromatography for Morphine Detection. **Rajabi Bazl M**, Rasae MJ. Presented In 6<sup>th</sup> Iranian Congress of Physiology And Pharmacology. Tehran. I.R. IRAN 9-13 May (2003).

Preparation, Purification and Charactrization of Chicken Anti-morphine Antibody. **Rajabi Bazl M**, Rasae MJ. Presanted in 15<sup>th</sup> IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine . Barcolona-SPAIN. 1-5 June (2003).

Enzyme Linked Immunosorbent Assay of Morphine Using Yolk Immunoglobulin. **Rajabi Bazl M.**, Rasae MJ. Kashanian S. And Paknejad M. Presented in the 3<sup>rd</sup> Iranian Congress of Biotechnology. Mashhad. I.R. IRAN. 9-11 Sep (2003).

Use of colloidal gold for detection of morphine in low level in saliva. **Rajabi Bazl M.**, Rasae MJ. 7<sup>th</sup> Iranian Congress of Biochemistry. Ahvaz. IRAN. 2005.

Production of Anti-Salmonella Antibody in Egg Yolk . Moghaddam Z., Rahimi S., Zahraii T., Rasae MJ ., Karimi MA., Moghaddamian AA., **Rajabi M** . 14<sup>th</sup> World Veterinary Poultry Congress And Exhibition . Istanbul. Turkey. 22-26 Aug (2005).

Production of chimeric recombinant single domain antibody-green fluorescent fusion protein in chinese hamster ovary cells. **Rajabi Bazl M**, Rasae MJ. Biology Congress, Tarbiat Modares University, Tehran, IRAN, 2007.

Production of recombinant single domain antibody in SP2/0 cells. Rahimpour M, Rasae MJ, Rajabi Bazl M. Biology Congress, Tarbiat Modares University, Tehran, IRAN, 2007.

Generation of recombinant Adeno Associated Virus particles containing Lysozyme signal -Single domain antibody -GFP construct. **Rajabi Bazl M**, Rasae MJ. In 9<sup>th</sup> Iranian Congress of Biochemistry, 2007.

Construction and stabilization of secretory cell line expressing recombinant camel single domain antibody labeled with GFP by synthetic Lysozyme signal peptide. **Rajabi Bazl M**, Rasae MJ, In 9<sup>th</sup> Iranian Congress of Biochemistry, 2007.

Construction of recombinant pantropic retrovirus particles containing Lysozyme signal -Single domain antibody -GFP. **Rajabi Bazl M**, Rasae MJ. Presented in the 5<sup>th</sup> Iranian Congress of Biotechnology. Tehran. I.R. IRAN. 2007.

Optimization of overproduction of human recombinant alpha 1 proteinase inhibitor in yeast. Majdi M, Saheb Ghadam Lotfi, Forouzandeh M, **Rajabi bazl M**. 1<sup>th</sup> International Congress on Health genomics and biotechnology. Tehran. I.R. IRAN. 2007. **Abstract was awarded as one of the best abstracts.**

Studying the effect of silencing beta catenin and aldose reductase using Si RNA in colon cancer. Farokhzad k, Forouzandeh M, **Rajabi bazl M**. Presented in the Congress of Genetics y. Tehran. I.R. IRAN., 2008.

13- Development of transgenic chicken containing fluonanobody. **Rajabi Bazl M**, Rasae MJ, In 10<sup>th</sup> Iranian Congress of Biochemistry, 2009.

Trying to develop transgenic chicken by sperm Cell. **Rajabi Bazl M**, Rasae MJ, In 10<sup>th</sup> Iranian Congress of Biochemistry, 2009.

Development of Nanovirus Containing Fluonanobody for Gene Transferring. **Rajabi Bazl M**, Rasae MJ. ICBN, Singapore, 2010.

Production and immunogenic characterization of recombinant prostate specific membrane antigen (rPSMA) as potential target in prostate cancer therapy. Hamed Zare, Seyed Latif Mousavi, **Masoumeh Rajabi Bazl**,. 12<sup>th</sup> Congress of biochemistry and 4<sup>th</sup> international congress of biochemistry and molecular biology, 2011, Mashhad. Iran.

Comparison of different LPS extraction methods for isolation of smooth and rough LPS. Ebrahimi Zade W Mousavi, **Rajabi Bazl M**,. First International and 12<sup>th</sup> Iranian congress of microbiology, 23 until 26 of May, 2011, Kermanshah Iran.

Purification and immunogenic characterization of anti-LPS Rabbit antibodies produced against *Vibrio cholerae* extracted Lipopolysaccharide. Ebrahimi Zade W

Mousavi S, **Rajabi bazl M.** 12<sup>th</sup> Congress of biochemistry and 4<sup>th</sup> international congress of biochemistry and molecular biology, 2011, Mashhad. Iran.

Production of phagmid library of camelid single-domain VHH antibodies against UreC of *H.pylori*. Leila Safaee, Seyed Latif Mousavi , **Masoumeh Rajabi Bazl\***, .

Production of Nanobodies from camelid-derived Heavy chain antibodies against clostridium botulinum type E Toxin. Bakherad H. Seyed Latif Mousavi , **Masoumeh Rajabi Bazl.** 12<sup>th</sup> Congress of biochemistry and 4<sup>th</sup> international congress of biochemistry and molecular biology, 2011, Mashhad. Iran.

Evaluation of the resistance gene MDR1 to fluconazole in strains of *C.albicans* by RT-PCR. Taghizadeh M, Yadegari MH, **Rajabi bazl M.** Microbiology Congress. 9-11 November, Isfahan.

Expression of camelid derived heavy chain antibody (Nanobody) against *Clostridium botulinum* neurotoxin E in *Pichia Pastoris*. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

A phagmid library containing nanobody against Bap antigen of *Acinetobacte baumani*. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Inhibition effect of variable domain of heavy chain antibody (Nanobody) against Urease activity of *Helicobacter Pylori*. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Generation of random mutant library against Urease from *Helicobacter Pylori* by Error-prone PCR. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Expression of camelid derived heavy chain antibody (Nanobody) against UreC subunit of urease from *Helicobacter Pylori* in *Pichia Pastoris*. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Selection of Nanobodies from Naïve VHH phage library derived from camelid derived heavy chain antibody (Nanobody) by whole cell panning. . 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Production of Nanobodies from camelid derived heavy chain antibody (Nanobody) against VEGF. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Engineering of recombinant nanobody against *Clostridium botulinum* neurotoxin E by Error-prone PCR. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

Preparation and evaluation of labeled antigen B with gold nanoparticles in order to rapid diagnosis of hydatid cyst. 11<sup>th</sup> Congress of immunology, 2012, Tehran. Iran.

تولید ابراهیمی زاده، سیدلطیف موسوی، **معصومه رجبی بذل**، لیلا صفایی اردکانی، حامد زارع. بیماری های قدیمی و تکنولوژی نوین؛ تولید نانوبادی با استفاده از تکنیک نمایش فاژی جهت مهار وبا. هفتمین همایش ملی بیوتکنولوژی جمهوری اسلامی ایران، ۲۱ تا ۲۳ شهریور ۱۳۹۰. ایران، تهران.

تولید ابراهیمی زاده، سیدلطیف موسوی، **معصومه رجبی بذل**، لیلا صفایی اردکانی، حامد زارع. تهیه و تولید نانوبادی با استفاده از تکنیک نمایش فاژی جهت مهار سالمونلا در عمق بافت. هفتمین همایش ملی بیوتکنولوژی جمهوری اسلامی ایران، ۲۱ تا ۲۳ شهریور ۱۳۹۰. ایران، تهران.

حامد زارع، میرلطیف موسوی، **معصومه رجبی بذل**، حمید باخرد، ولید ابراهیمی زاده، لیلا صفایی. تهیه کتابخانه نانوبادی های مشتق از آنتی بادی های زنجیره ی سنگین شتری بر علیه بخشی از آنتی ژن PSMA نوترکیب در سرطان پروستات. هفتمین همایش ملی بیوتکنولوژی جمهوری اسلامی ایران، ۲۱ تا ۲۳ شهریور ۱۳۹۰. ایران، تهران.

لیلا صفایی اردکانی، سیدلطیف موسوی، **معصومه رجبی بذل**، حمید باخرد، ولید ابراهیمی زاده، حامد زارع. انتخاب قطعات VHH (نانوبادی) اختصاصی علیه زیرواحد UreC آنزیم اوره آز از کتابخانه فائز میدی. هفتمین همایش ملی بیوتکنولوژی جمهوری اسلامی ایران، ۲۱ تا ۲۳ شهریور ۱۳۹۰. ایران، تهران. (در دست بررسی).

تولید ابراهیمی زاده، سیدلطیف موسوی، **معصومه رجبی بذل**. تولید آنتی بادی پلی کلونال موشی بر علیه لیپوپلی ساکارید تخلیص شده از باکتری ویبریوکلرا اینابا O1. شانزدهمین کنفرانس سراسری و چهارمین کنفرانس بین المللی زیست شناسی ایران، ۲۳ تا ۲۵ شهریور ۱۳۸۹، دانشگاه فردوسی مشهد.

سیدلطیف موسوی، **معصومه رجبی بذل**، ولید ابراهیمی زاده. تولید آنتی بادی پلی کلونال موشی بر علیه لیپوپلی ساکارید تخلیص شده از باکتری سالمونلا تیفی موریوم. شانزدهمین کنفرانس سراسری و چهارمین کنفرانس بین المللی زیست شناسی ایران، ۲۳ تا ۲۵ شهریور ۱۳۸۹، دانشگاه فردوسی مشهد.

## Book

Tietz Fundamentals of Clinical Chemistry (Translator & Editor).

Molecular Biology Robert Weaver (Translator).

## Supervised thesis

- 1-Production of single domain Antibody(Nanobody) against LPS Vibrio .Abrahimi(Student).For the Degree of M.Sc. in Biotechnology. To be Submitted in 2010.
- 2-development of nanobody against H.pylori. Safaei(student).For the Degree of M.Sc. in Biotechnology. To be Submitted in 2010.
- 3-characterization and production of nanobody against Botulism.Bakherad (student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2010.
- 4-Production of Nanobody against PSMA.Zareh(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2011.
- 5-Production of Nanobody against VGF. Javidan(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2011.
- 6-Production of Nanobody against IX CA.Araste(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted.
- 7-Production of Nanobody against H.Pylori with high affinity with Error prone PCR.Hosseinpour(student). For the Degree of M.Sc. in Biotechnology. To be Submitted.
- 8- Production of Nanobody against Butolism with high affinity with Error prone PCR. For the Degree of M.Sc. in Biotechnology.Shahei(student). To be Submitted.
- 9-Production of nanobody against Botulism in *Pichia pastorius*.Bagban.(student).For the Degree of M.Sc. in Biotechnology. To be Submitted in 2011.
- 10-Production of nanobody against H.pylori in *Pichia pastorius*.Pourasadi (student).For the Degree of M.Sc. in Biotechnology. To be Submitted in 2011.
- 11-Gene diversity and  $\beta$ -lactamase activity diversion among different isolates of *E.coli*. Rahimi M(STUDENT). For the Degree of M.Sc. in Biochemistry. To be Submitted
- 12-Cloning and expression of E70gp96 Fusion as a DNA vaccine. Daemi A (Student). For the Degree of M.Sc. in Biochemistry. To be Submitted.
- 13-Development of potent inhibitory phage vaccine for prostate cancer.Rafiee A(Student). For the Degree of M.Sc. in Biochemistry. To be Submitted.
- 14- Distribution of genotype of *Candida albicans* strains associated with different conditions of vulvovaginal candidiasis by PCR-SSCP and Real time PCR.
- 15- Production of SCFV Monoclonal Antibody against VEGF. Hosseini(Student). For the Degree of M.Sc. in clinical Biochemistry. To be Submitted in 2013.
- 16-15- Production of SCFV Monoclonal Antibody against PSMA. Rezaeei(Student). For the Degree of M.Sc. in clinical Biochemistry. To be Submitted in 2013.

17-Construction of fuse gene containing Antibody-GFP for expression in eukaryote system.Tofani(Student). For the Degree of M.Sc. in clinical Biochemistry. To be Submitted in 2013.

Production of SCFV against VEGF. Hosseini(Student). For the Degree of M.Sc. in Biochemistry. To be Submitted in 2012.

Production of SCFV against PSMA. Rezaee(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2012.

Production of SCFV against EGFR. Foromadi(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2012.

Production of SCFV against NMP22. Yarahmadi(Student). For the Degree of M.Sc. in Biotechnology. To be Submitted in 2012.

### **Co- Supervised Thesis**

1--Candida Albicans detection with phenotype and genotyping.Farahbaksh(Student).For the Degree of M.Sc. in mycology. To be Submitted in 2010.

2-Identification of fluconazole resistance genes in candida albicans.Tagizadeh(Student). For the Degree of M.Sc. in mycology. To be Submitted in 2010.

3-Identification of insulin resistance with PTP1. For the Degree of Ph.D in Clinical Biochemistry. To be Submitted in 2012.

4-Development of Rapid detection kit for Hydatid Cyst.Jafari(Student). For the Degree of M.Sc. in Biochemistry.To be Submitted in 2011.

5-8-Development of agglutination test for detection of Hydatid Cyst by using Nanogold. Jahani(Student) For the Degree of M.Sc. in Biochemistry.To be Submitted in 2011.

6-Detection of C.albicans drug resistancy by real time PCR.Aslani. (Student).For the Degree of M.Sc. in mycology. To be Submitted in 2012.

7- Detection of C.albicans by SSCP.Foladi. (Student).For the Degree of Ph.D in mycology. To be Submitted in 2012.

### **Patents:**

1- Construction of recombinant Adeno Associated Virus containing VHH Nanobody -GFP for gene transferring. **Rajabi Bazl M**, Rasae MJ, Forouzandeh M.IRAN (2007).No;42685 .

2. Development and Construction of recombinant Pantropic retrovirus containing Lysozyme signal -Single domain antibody –GFP for gene transfer to germinal cells. **Rajabi Bazl M**, Rasae MJ, Foruzandeh M.IRAN (2007).No; 42701.
3. Usage of Nano- gold particle for development of Immunochromatography test for detection of Morphine. **Rajabi Bazl M**, Rasae MJ. (2008) ;No;48512.
4. Development of Immunochromatography rapid test for detection of morphine in low level. **Rajabi Bazl M**, Rasae MJ. (2008).No; 48534.