

IUMS, Department of Immunology, 2017 Annual Report



Department of Immunology

School of Medicine

Iran University of Medical Sciences

Annual Report

2017

Section I Introduction

A. Executive Summary

In brief, 2017 was an exciting year for Immunology department. Several comprehensive projects were fulfilled by the post graduate students under expert supervision of the Immunology department eminent professors. We are happy to declare that most of those studies resulted in useful papers with good citations or they are under publication. In 2017, one of our experienced professors, Dr. Kobra Entezami was retired that we hope a happy life for her and would like to see her in our annual gatherings.

In terms of **Research**, we designed the cancer biology laboratory and developed some advanced methods in this field. Research output from the members was published in more than 30 scientific papers and books. Moreover three gatherings occurred within the department to celebrate different events including “students Day”, “Teachers Day” and “Research Day”.

Our department had good collaboration with other departments such as Pharmacology, Parasitology, Nutrition, Biochemistry and Biotechnology. This movement in the boundaries of knowledge facilitated publication of our manuscripts and provided innovative results which could result in creation of wealth and guide us towards a third generation university in the future.

In terms of **Education**, the efforts in the department was excellent by delivering novel undergraduate and graduate programs. During the year the journal club gatherings were regularly conducted. Moreover, several theoretical and practical workshops were held.

In terms of **Service and Administration**, the department had excellent collaboration with Immunology Research Center. The department plays a creative role in conducting the biosafety regulations collaborated with biosafety committee of the faculty of Medicine. Mr. Alireza Farahani, as the biosafety officer of the department, made the necessary coordination for holding the biosafety workshops. To handle ongoing cell culture techniques, a couple of biological safety cabinets were

launched. Moreover, the molecular biology laboratory was equipped by an advanced Real-Time PCR instrument.

In addition to achievements of the faculty members, Immunology post graduate students presented several oral and poster presentations in various national or international congresses, received awards, and published several original or review articles as well as books via collaboration with other departments in IUMS.

I would like to thank Dr. Reza Falak, Dr. AliAkbar Delbandi, Dr. Elaheh Safari and Dr. Nazanin Mojtabavi, department co-director, deputies of the Education of Graduate students, Undergraduate students and Research committees of the department, who showed great effort in coordination and arrangement of the courses, exams and researches, respectively. I would like also to thank Dr. Reza Falak and Mr. Yaser Bagheri for their collaboration in preparation of this report. We also hope to have further promotions in the next year.

Regards

Dr. Mehdi Shekarabi

Director of Immunology Department

Faculty of Medicine

Iran University of Medical Sciences

Tehran, Iran

B. Faculty Listing

1. List of faculty members with primary appointments in the department of Immunology

Mehdi Shekarabi, Ph.D

Alireza Salek moghadam, MD & Ph.D, Retired

Kobra Entezami, Ph.D, Retired

Mohammad-Ali Bahar, Ph.D, Retired

Tahereh Mosavi, Ph.D, Retired

Nader Tajik, Ph.D

Nazanin Mojtabavi, Ph.D

Reza Falak, Ph.D

Mohammad-Ali Asarehzadegan, Ph.D

Elahe Safari, Ph.D

Hadi Jazayeri, Ph.D

Ali Akbar Delbandi, Ph.D

Samaneh Khorami, Ph.D

2. List of Faculty members with secondary appointments

Amir Hassan Zarnani (Ph.D) from AVECINNA Research Center

Farshid Nourbakhsh (MD, Ph.D) from Immunology Department, Tehran University of Medical Sciences

Mohammad Najafi (Ph.D) from Biochemistry Department, IUMS

Mitra Nourbakhsh (Ph.D) from Biochemistry Department, IUMS

Saba Arshi (MD) from Department of Clinical Allergy and Immunology

Morteza Fallahpor (MD) from Department of Clinical Allergy and Immunology

Mohammad Hassan Bemanian (MD) from Department of Clinical Allergy and Immunology

Babak Ghale Baghi (MD) from Department of Clinical Allergy and Immunology

Mohammad Nabavi (MD) from Department of Clinical Allergy and Immunology

IUMS, Department of Immunology, 2017 Annual Report

Hadi Pourmoghim (MD) From Department of Clinical Rheumatology

Mohammad Reza Yasinzadeh (MD) From Department of Emergency Medicine

Simin Almasi (MD) From Department of Clinical Rheumatology

Shams (MD) From Department of Clinical Rheumatology

Sedigheh Moradi (MD) From Department of Clinical Endocrinology

Mahmood Bozorgmehr (Ph.D) Basic Immunologist

Shohreh Nikoo (Ph.D) Immunology Research Center of IUMS

3. Teaching and Research Assistants

Masomeh Najafi (Immunochemistry Lab RA, Medical Immunology Lab TA)

Alireza Farahani (Biosafety Officer, Molecular Lab RA, Medical Immunology Lab TA)

Alireza Najafi (Medical Immunology Lab RA and TA)

4. Secretary and service providers

Soraya Rafiei (Secretary)

Hossein Afshar

Section II Research

Publications, Lectures, Patents of the members

Mehdi Shekarabi, Ph.D

Associate professor of Immunology



Research interest: Clinical laboratory immunology, Innovations in diagnostic immunology, Determination of the role of autoantibodies in SRD

Publications

Mohammad Khoshroo, Mohammad Ebrahim Khamseh, Ali Akbar Amir Zargar, Mojtaba Malek, Reza Falak, **Mehdi Shekarabi***. The Relationship between insulin variable number of tandem repeats (INS-VNTR) -23 A/T and cytotoxic Tlymphocyte associated protein-4 (CTLA-4) +49 A/G polymorphisms with islet autoantibodies in persons with diabetes. Medical Journal of the Islamic Republic of Iran. 2017; 31.83

Arshi S, Dehghani Firouzabadi F, Ghalehbaghi B, Dehghani Firouzabadi A, Jalali F, **Shekarabi M**, Sirous R, Dehghani Firouzabadi M. Otitis Media with Effusion in Children and the Impact of Risk Factors on Serum Cytokine Levels. Iran J Otorhinolaryngology. 2017; 29(91):75-81.

Majid Khoshmirsafa , Farhad Seif , Monireh Mohsenzadegan , Mohammad Najafi , Kobra Mokhtarian , **Mehdi Shekarabi ***; Circulating microRNAs, valuable biomarkers in biological fluids. 2017

Khoshroo Mohammad, **Shekarabi Mehdi**, Khamseh Mohammad Ebrahim, Kalhor Naser, Novin Leila, Shiri Zahra, Khazeni Mohammad, Yousefi Mehdi; Frequency of Latent Autoimmune Diabetes in Adults (LADA) in Phenotypically Type2 Diabetic Patients in Qom. 2017

Mohammad Khoshroo, **Mehdi Shekarabi**, Mohammad Ebrahim Khamseh, Naser Kalhor, Leila Novin, Zahra Shiri, Mohammad Khazeni, Mehdi Yousefi; Comparison of Type1 diabetes mellitus and Latent Autoimmune Diabetes in Adults based on family history of diabetes. 2017

BOOKS

1. **Shekarabi M**, Safari E, Khorami S, Mojtavavi N, Mirsafa M. Principles and Application of Immunology Laboratory Techniques In diagnosis and treatment of disease, 2017, Khosravi Publication.
2. Hassan Z, Farid Hosseini R, Mir Shafi A, **Shekarabi M**, Amir Zargar A, Zarnani A, Khalili A. Immunology. 2017

Nader Tajik, Ph.D

Professor of Immunology, Division of Transplant Immunology and Immunogenetics



Research interest

Transplantation Immunology and Immunogenetics. Molecular studies of the complexity, polymorphism and functional roles of HLA region (A, B, C, DR, DQ, DP, TAP and LMP) genes. Immunogenetic profiling in transplantation and various clinical conditions. Study of cytokines, killer cell immunoglobulin-like receptors, adhesion and other immunoregulatory molecules polymorphism in the Iranian population. Immunology of stem cells and regenerative medicine.

ISI Publications (h-index=12)

1- Jafari R, Aflatoonian R, Falak R, Pourmand G, Dehghani S, Mortazavi M, Adelipour A, Rezaei A, **Tajik N**. Down-regulation of inflammatory signaling pathways despite up-regulation of Toll-like receptors; the effects of corticosteroid therapy in brain-dead kidney donors, a double-blind, randomized, controlled trial. *Mol Immunol*. 2018; 94:36-44. doi: 10.1016/j.molimm.2017.12.012. Epub 2017 Dec 16.

2- Baharlou R, **Tajik N**, Habibi-Anbouhi M, Shokrgozar MA, Zarnani AH, Shahhosseini F, Behdani M. Generation and characterization of an anti-delta like ligand-4 Nanobody to induce non-productive angiogenesis. *Anal Biochem*. 2018; 544:34-41. doi: 10.1016/j.ab.2017.12.014. Epub 2017 Dec 12.

3- Motedayyen H, Esmaeil N, **Tajik N**, Khadem F, Ghotloo S, Khani B, Rezaei A. Method and key points for isolation of human amniotic epithelial cells with high yield, viability and purity. *BMC Res Notes*. 2017; 10(1):552. doi: 10.1186/s13104-017-2880-6.

7- Shah-Hosseini A, Jafari M, Mohammadi A, Sanaei R, Alavian SM, Doosti-Irani A, Nooradeh Keykavousi M, **Tajik N**. The impact of KIR-HLA genotype on hepatitis B virus clearance in Iranian infected individuals. *Med Microbiol Immunol*. 2017; 206(6):463-470. doi: 10.1007/s00430-017-0522-1. Epub 2017 Oct 14.

8- Mohammadi Ayenehdeh J, Niknam B, Rasouli S, Hashemi SM, Rahavi H, Rezaei N, Soleimani M, Liaeiha A, Niknam MH, **Tajik N**. Immunomodulatory and protective effects of

IUMS, Department of Immunology, 2017 Annual Report

adipose tissue-derived mesenchymal stem cells in an allograft islet composite transplantation for experimental autoimmune type 1 diabetes. *Immunol Lett.* 2017; 188:21-31. doi:

10.1016/j.imlet.2017.05.006. Epub 2017 May 12.

9- Gholamnezhadjafari R, **Tajik N**, Falak R, Aflatoonian R, Dehghan S, Rezaei A. Innate inflammatory gene expression profiling in potential brain-dead donors: detailed investigation of the effect of common corticosteroid therapy. *Innate Immun.* 2017; 23(5):440-448. doi:

10.1177/1753425917709508. Epub 2017 May 15.

10- Namazi S, **Tajik N**, Ziaee V, Sadr M, Soltani S, Rezaei A, Zoghi S, Rezaei N. APRIL gene polymorphism and serum sAPRIL levels in children with systemic lupus erythematosus. *Clin Rheumatol.* 2017; 36(4):831-836. doi: 10.1007/s10067-016-3466-8. Epub 2016 Nov 23.

11- Mohammadi Ayenehdeh J, Niknam B, Hashemi SM, Rahavi H, Rezaei N, Soleimani M, **Tajik N**. Introducing a New Experimental Islet Transplantation Model using Biomimetic Hydrogel and a Simple High Yield Islet Isolation Technique. *Iran Biomed J.* 2017; 21(4):218-27. Epub 2017 Jun 6.

Nazanin Mojtabavi, Ph.D

Assistant Professor of Immunology



Research interest

Fibrosis, Immunology of autoimmune diseases, Allergic asthma, Allergooncology

Publications:

1. Generation and Characterization of Siglec-F-Specific Monoclonal Antibodies. Shahmohammadi-Farid S, Ghods R, Jeddi-Tehrani M, Bayat AA, **Mojtabavi N**, Razavi A, Zarnani AH. Iran J Allergy Asthma Immunol. 2017 Dec;16(6):460-470
2. Interleukin-6 participation in pathology of ocular diseases.Zahir-Jouzdani F, Atyabi F, **Mojtabavi N** Pathophysiology. 2017 Sep;24(3):123-131
3. Development of a Time and Cost Benefit Antibody Binding Test-Based Method for Determination of Rabies Vaccine Potency.Asgary V, **Mojtabavi N**, Janani A, Mousavi T, Hadjati J, Khosravy MS, Ahangari Cohan R. Viral Immunol. 2017 Apr;30(3):204-209

BOOK

Shekarabi R, Safari E, Khorami S, Mojtabavi N, Mirsafa M. Principles and Application of Immunology Laboratory Techniques In diagnosis and treatment of disease, 2017, Khosravi Publication.



Reza Falak, Ph.D

Associate Professor of Immunology

Research interests

Cancer Biology, Innovation in practical Immunology, Immunoparasitology, Molecular Allergology

Awards:

Selected Reviewer of the Journal, 2017, Biannual meeting of the members of Iranian Journal of Asthma, Allergy and Immunology, TUMS, Tehran, Iran.

Publications

- 1- Gholamnezhadjafari R., Tajik N., **Falak R.**, Aflatoonian R., Rezaei A. Innate inflammatory gene expression profiling in potential brain-dead donors: detailed investigation of the effect of common corticosteroid therapy. *Innate Immunity*. 2017; 23(5):440-448.
- 2- Davoodzadeh Gholami M., kardar G.A., Saeedi Y., Heydari S., Garssen J., **Falak R.***; Exhaustion of T lymphocytes in tumor microenvironment: significance and effective mechanisms. *Cellular Immunology*, 2017; 322: 1-14
- 3- Tabatabaei M., Mosaffa N., Ghods R., Nikoo S., Kazemnejad S., Khanmohammadi M., Mirzadeghan E., Mahmoudi A.R., Bolouri M.B., **Falak R.**, Keshavarzi B., Ramezani M. and Zarnani A.H.; Vaccination with human amniotic epithelial cells confer effective protection in a murine model of Colon adenocarcinoma. *International Journal of Cancer*, 2017; DOI: 10.1002/ijc.31159
- 4- Falahati M., Ghanbari S., Ebrahimi M., Ghazanfari M., Bazrafshan F., Farahyar S., **Falak R.*** Fractionation and identification of the allergic proteins in *Aspergillus* species. *Current Medical Mycology*, 2017; 2(4): 37-45.
- 5- Gholami S., Goodarzvand Chegini K., Gheibi N., Mokhtarian K., Mohamadi M., **Falak R.***; Cloning, expression, and spectral analysis of mouse betatrophin. *Medical Journal of Islamic Republic of Iran*. 2017; 6(2):158-163
- 6- Gholami M., Salimi Chirani A., Razavi S., **Falak R.**, Irajian G.R.; Immunogenicity of a fusion protein containing PilQ and disulfide turn region of PilA from *Pseudomonas aeruginosa* in mice. *Letters in Applied Microbiology* 2017, 65(5): 439-445
- 7- Khoshroo M., Khamseh M.E., Amir Zargar A.A., Malek M., **Falak R.**, Shekarabi M.; The Relationship between insulin variable number of tandem repeats (INS-VNTR) -23 A/T and cytotoxic T lymphocyte associated protein-4 (CTLA-4) +49 A/G polymorphisms with islet

autoantibodies in persons with diabetes. *Med J Islam Repub Iran*. 2017

D.OI:10.18869/mjiri.31.83

- 8- Mansourzadeh A., Honarmand Jahromi S., Khoshmirsafa M., **Falak R.***; Comparison of Interferon-Gamma Release Assay and Tuberculin Skin Test for Detection of Latent Tuberculosis Infections in Iranian Elderly Patients, *Iranian journal of medical microbiology*; 2017; 11(2):17-25 (In Persian)

Books

- 1- **Falak R**, Salehi Z, Bagheri Y, Jafarzadeh L, Masoumi E, Namdari H; **Translation** of “Henry’s clinical diagnostic and management by laboratory methods” book into Persian. Published in **2017** by Heidary publication Co.
- 2- **Falak R**, Mirshafeei A, Shahraki H, Jafarnejhad F, Shakoory M, Shahbazi F, Fathi M; **Translation** of “Autoimmunity: pathogenesis, clinical aspects and therapy of specific autoimmune disease” Published in **2017** by Heidary publication Co.

Abstract in Scientific Meetings

- 1- Mohammadi M., Varaiee F.S., Vakili Mogadam M., **Falak R.**; Chimeric Virus-Like Particles harboring Che a3-Derived Peptides Could Raise Allergy Blocking Antibodies. The 3rd International Congress of Immunology, Asthma & Allergy, Imam Khomeini hospital, Tehran, Iran. 15-17 February 2017.
- 2- Mohammadi M., **Falak R.**, Kardar G.A; Cloning, expression and IgE binding analysis of recombinant Wolf Herring fish parvalbumin, the sole allergen in heated wolf herring fish. The 3rd International Congress of Immunology, Asthma & Allergy, Imam Khomeini hospital, Tehran, Iran. 15-17 February 2017.
- 3- Fanuel S., **Falak R.**, Mokhtarian K., Sadroddiny E., Fazlollahi M.R., Pourpak Z., Kardar G.A; Construction of NT-34, a recombinant B-cell epitope peptide vaccine from Der p 1 for specific Immunotherapy of Allergy. The 3rd International Congress of Immunology, Asthma & Allergy, Imam Khomeini hospital, Tehran, Iran. 15-17 February 2017.

Mohammad-Ali Asarehzadegan, Ph.D

Associate Professor of Immunology



Research interest: Immunology and Allergology

Publications

- 1- Kooti W, Mansouri M, **Assarehzadegan M.A.**, Nejad–Dehbashi F.D. Effect of Pravastatin on Levels of Filtration Slit Diaphragm Protein and Oxidative Stress in Doxorubicin-Induced Nephrotoxicity. *Indian Journal of Pharmaceutical Education and Research*, 2017; 51 (1): 77-82.
- 2- M Zarean, Maraghi SH, Hajjarian H, Mohebbali M, Feiz-Haddad MH, MA **Assarehzadegan M.A.** Correlation between clinical responses with the drug susceptibility of parasites in Iranian cutaneous leishmaniasis caused by *Leishmania major*. *Tropical Biomedicine* 2017; 34(2): 338-345.
- 3- H.M. Forushani, A.A. Hemmati, A. Khodadadi, **M.A. Assarehzadegan**, M Rashno. Protective effect of valsartan on bleomycin-induced fibrosis. *Jundishapur Journal of Natural Pharmaceutical Products*. 12(1): e33973

BOOK

Pollen Allergy in Iran (one Chapter) In: *Allergy and Allergen Immunotherapy*; 2017; Apple Academic Press (AAP).

Elahe Safar, Ph.D

Assistant Professor of Immunology



Research interests: Cancer Immunology

BOOK

Shekarabi R, Safari E, Khorami S, Mojtabavi N, Mirsafa M. Principles and Application of Immunology Laboratory Techniques In diagnosis and treatment of disease, 2017, Khosravi Publication.

Mir Hadi Jazayeri, Ph.D

Assistant Professor of Immunology



Research interests

Publications

1. Ebrahimnezhad, **MH Jazayeri** , SM Hassanian. Current Status and Prospective Regarding the Therapeutic Potential of Natural Autoantibodies in Cancer Therapy, Journal of cellular physiology, 2017
2. A Bahrami, M Khazaei, an, **MH Jazayeri**. Targeting the tumor microenvironment as a potential therapeutic approach in colorectal cancer: rational and progress Journal of Cellular Physiology, 2017
3. Nedaeinia R, Manian M, **Jazayeri MH**, Ranjbar M, Salehi R, Sharifi M, Mohaghegh F, Goli M, Jahednia SH, Avan A, Ghayour-Mobarhan M; Circulating exosomes and exosomal microRNAs as biomarkers in gastrointestinal cancer. Cancer Gene Therapy; 2017; 24(2):48-56.

Book:

Jazayeri MH, Bahrami S, Naseri maleki S; **Translation** of “A Scientific Approach to Scientific Writing” book into Persian. Published in **2017** by Taymaz publication Co.

Samaneh Khorrami, Ph.D

Assistant Professor of Immunology



Research Interest: Cancer Immunology

Publications

Khorrami, S., et al., MicroRNA-146a induces immune suppression and drug resistant colorectal cancer cells. *Tumor Biology*, 2017. 39(5).

Abstracts in Scientific Meetings:

Lecture:

12th International Breast Cancer Congress (12th IBCC), February 22-24, 2017, Tehran, Iran
"Clinical significance of DKK3 serum level as new biomarker in breast cancer"

Poster:

9th International Congress of Laboratory & clinic and 2th National Congress of Basic medical Sciences and the Knowledge-based production, Tehran - Iran, 6-8 February 2017 " S100A8/A9 heterodimer complex: a promising screening biomarker for colon cancer"

Books:

1- Shekarabi R, Safari E, Khorami S, Mojtabavi N, Mirsafa M. Principles and Application of Immunology Laboratory Techniques In diagnosis and treatment of disease, 2017, Khosravi Publication.

2- Mesenchymal Stem Cells: principles of isolation, cultivation and characterization of stem cells from human and mouse tissues, 2017, Royan Pazhouh Publication

Ali-Akbar Delbandi, Ph.D



Research interests

Reproductive Immunology, Immunomodulation

Publications

1. Roozbeh Sanaei, Nima Rezaei, Asghar Aghamohammadi, Ali-Akbar Delbandi, Shahram Teimourian, Reza Yazdani, Parsova Tavasolian, Fatemeh Kiaee, Nader Tajik. **Evaluation of the TLR negative regulatory network in COVID patient.** Genes Immun (Accepted)
2. Elham Alipour fayez, Mehdi Shekarabi, Seyed Ali Javad Moosavi, Siavash Kouranifar ,Ali Akbar Delbandi, Shahram Teimourian, Mohammad Reza Bolouri, Majid Khoshmirsafa, Atefeh Sadeghi Shermeh. **Prevalence of Latent Tuberculosis infection in lung cancer patients and compare it with healthy individuals.** Razi Journal of Medical Sciences (Accepted)

Books:

1. Organ Immunology: Under publication
2. Principals and applicable methods in purification of native and recombinant proteins, Second edition, Under publication

Section III Teaching and Learning

A. Post Graduate Programs

Ph.D Student Courses

Bioinformatics and Immunoinformatics (Immunology students)

Advanced course in Immunology (Immunology students)

Clinical Immunology (Immunology students)

Organ Immunology (Immunology students)

Basic Immunology (Nutrition students)

Immunotherapy (Immunology students)

Immunology of Infectious Disease (Bacteriology students)

Immunology (Molecular Medicine students)

Immunology (Pharmacology students)

Immunology (Biology of Reproduction students)

Biosafety (Ph.D students from all departments)

MSc Student Courses

Immunopathology and Immunotherapy (Immunology students)

Immunoheamatology and Blood Banking (Immunology students)

Immunology of Infectious Disease (Immunology students)

Immunology II (Immunology students)

Practical Immunology and Immunochemistry (Immunology students)

Basic Immunology (Parasitology students)

Principals of Immunochemistry (Immunology students)

Bioinformatics (Immunology students)

Biosafety (MSc students from all departments)

B. Undergraduate Programs

Immunology for students of Medicine (Theoretical)

Immunology for students of Medicine (Practical)

Immunology for students of Medicine (Theoretical), International Campus

Immunology for students of Medicine (Practical), International Campus

Journal Clubs

Journal Club Title	Speaker	Date
Using Serological Proteome Analysis to Identify Serum Anti-Nucleophosmin 1 Autoantibody as a Potential Biomarker in European-American and African-American Patients With Prostate Cancer	Mostafa Manian	13.10.95
Wharton's jelly mesenchymal stromal cells have contrasting effects on proliferation and phenotype of cancer stem cells from different subtypes of lung cancer	Mohammad Mahjoor	20.10.95
A TIM-3/Gal-9 Autocrine Stimulatory Loop Drives Self-Renewal of Human Myeloid Leukemia Stem Cells and Leukemic Progression	Farzad Nasr	27.10.95
Impaired NK-mediated regulation of T-cell activity in multiple sclerosis is reconstituted by IL-2 receptor modulation	Tayebeh Aghaei	4.11.95
Differential effects of tumor necrosis factor-α on matrix metalloproteinase-2 expression in human myometrial and uterine leiomyoma smooth muscle cells	Shaghayegh Sadegh	11.11.95
Capsaicin Modulates the Immune Cross Talk Between Human Mononuclear and Cells from Two Colon Carcinoma Lines	Tahereh Azari	25.11.95
type I interferons exert anti-tumor effect via reversing immunosuppression mediated by mesenchymal stromal cells	Marziyeh Agaric	2.12.95
CTRP6 inhibits fibrogenesis in TGF-β1-stimulated human dermal fibroblasts	Mahsa Kalantari	9.12.95
HIF-1α regulates miR-210 to affect biological behavior of breast cancer cells	Fatemeh Sadeghi	16.12.95
<i>Preventing Allograft Rejection by Targeting Immune Metabolism</i>	Mohammad hossein Kazemi	21.1.96

IUMS, Department of Immunology, 2017 Annual Report

Soluble ligands for NK cell receptors promote evasion of chronic lymphocytic leukemia cells from NK cell anti-tumor activity	Mohammad Reza Shokri	28.1.96
RAG1 Deficiency May Present Clinically as Selective IgA Deficiency	Yasser Bagheri	11.2.96
Autologous stem cell transplantation aids autoimmune patients by functional renewal and TCR diversification of regulatory T cells	Yaghoub Molai	25.2.96
A key role of GARP in the immune suppressive tumor microenvironment	Mohammad Davoud zadeh	1.3.96
Autoantibodies in breast cancer sera are not epiphenomena and may participate in carcinogenesis	Haleh Abdoli	26.4.96
Proposal Defense	Marjan Taherian	3.5.96
Phylogenetic distinction of iNOS and IDO function in mesenchymal stem cell-mediated immunosuppression in mammalian species	Mohammad Jafari	9.5.96
Induction of Regulatory T Cells and Its Regulation with Insulin-like Growth Factor/Insulin-like Growth Factor Binding Protein-4 by Human Mesenchymal Stem Cells	Paria Jorbozedar	23.5.96
Hypoxia promotes Mycobacterium tuberculosis-specific up-regulation of granulysin in human T cells	Nesa Rashidi	13.6.96
Targeting Intracellular Oncoproteins with Antibody Therapy or vaccination	Mohammad Reza Bolouri	20.6.96
MSc Thesis Defense		28.6.96 29.6.96
MSc Proposal Defense		1.7.96
Thesis Defense		3.7.96
Inhibition of microRNA-21 via locked nucleic acid-anti-miR suppressed metastatic features of colorectal cancer cells through modulation of programmed cell death 4	Mostafa Manian	10.7.96
Circulating microRNAs panel as a diagnostic tool for discrimination of HCV-associated hepatocellular carcinoma	Rasoul Baharlou	17.7.96
Seminar	Msc students	25.7.96 26.7.96

IUMS, Department of Immunology, 2017 Annual Report

Thesis Defence	Nesa Rashidi	22.7.96
Genome-independent hypoxic repression of estrogen receptor alpha in breast cancer cells	Maryam Sadri	1.8.96
Chronic hepatitis C liver microenvironment: role of the Th17/Treg interplay related to fibrogenesis	Marjan Taherian	8.8.96
Correlation of HLA-DR16 and heat shock proteins in immune response of patients with coronary atherosclerosis	Zain Aghamajidi	15.8.96
Detection of IL-9 producing T cells in the PBMCs of allergic asthmatic patients	Leila Samimi	22.8.96
The crosstalk between endometrial stromal cells and macrophages impairs cytotoxicity of NK cells in endometriosis by secreting IL-10 and TGF-β	Sahel Heidari	29.8.96
Ascites-derived IL-6 and IL-10 synergistically expand CD14+HLA-DR-/low myeloid-derived suppressor cells in ovarian cancer patients	Elham Shokati	13.9.96
IL-18 Drives ILC3 Proliferation and Promotes IL-22 Production via NF-κ	Shideh Namazi	20.9.96
B-cell activation with CD40L or CpG measures the function of B-cell subsets and identifies specific defects in immunodeficient patients	Yasser Bagheri	27.9.96
Fas-Related Apoptosis of Peritoneal Fluid Macrophages in Endometriosis Patients: Understanding the Disease	Tahereh Mohamadi	4.10.96

Workshops

Title	Presenter
Phage display workshop (held twice)	Mrs. Faraji, Mr. Baharlou
Graph Pad Prism (held twice)	Mr. mirsafa
Statistical analysis	Mr. mirsafa
Real time PCR	Mr. mirsafa

Section IV Academic & Community Service and ceremonies

Thesis defense (MS.c students)

Elham Alipoor; Evaluation of latent tuberculosis frequency in patients with lung cancer and chronic obstructive pulmonary disease patients and assessment of cellular immunity in all study groups

Atefeh Sadeghi; Evaluation of association between mannose-binding lectin and interleukin-10 gene single nucleotide polymorphisms, and Interleukin-10, Interferon-gamma cytokines production and serum MBL concentration on the treatment responsiveness in the tuberculosis patients compared with healthy individuals

Pendar Safari; The expression of CCN1 and its specific integrins in lungs of mouse model of systemic sclerosis

Mohammad Reza Shokri; Evaluation of menstrual blood stromal stem cells immunomodulatory effects on functional features of natural killer cells

Mohammad Davoodzadeh; Evaluation of cancer cell invasion via blocking the Epithelial-Mesenchymal transition in A549 cell line

Hossein Azami; Evaluation of class switching recombination of IgA subclasses in nasal polyp of chronic rhinosinusitis with nasal polyps (CRSwNP)

Elaheh Izadi; Study the effect of progesterone in expression of MMP7 and MMP13 in a mouse model of systemic sclerosis

Rozbeh Sanayi; Investigation of SOCS1, A20, TRIAD3a, IRAK-M gene expression and TNF- α and IFN- α levels in PBMC culture of X-linked agammaglobulinemia (XLA), Common Variable Immunodeficiency (CVID) patient and control group incubated by TLR-4 ligand (LPS) and TLR-9 ligand (ODN)

Jounior Ph.D Students

Mr. Alireza Najafi

Mr. Morteza Motallebnezhad

Mr. Hamid Nikkhoo

Mrs. Shirin Taghizadeh

Mrs. Azin Aghamajidi

Mrs. Shaghayagh Pezeshki

Mrs. Roya Kolahdouz

Mrs. Tahereh Arablou

Ceremony at the end of 2017

