



Department of Immunology

School of Medicine

Iran University of Medical Sciences

Annual Report

2018

Section I Introduction

A. Executive Summary

In brief, 2018 was a rather dynamic period in 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 valuable papers with good citations and hope to result in to innovative diagnostic kits or biological products in the future.

In terms of **Research**, some advanced methods in the field of Immunology and Molecular Biology was developed. Research output from the members was published in approximately 50 scientific research and review articles. Immunology department had good collaboration with Pharmacology, Parasitology, Nutrition and Biotechnology departments. These joint projects provided distinguished publications and innovative findings which could be a promotion towards a third generation university in the future.

In terms of **Education**, the efforts in the department were excellent by delivering novel undergraduate and graduate programs. Approximately 300 students of Medicine received educational services from our department. Moreover, more than 60 students of Nursery admitted in Immunology classes. During the year the journal club gatherings were regularly conducted on Mondays and also we enjoyed the interesting lectures in the field of psychology, too. Moreover, several practical workshops were held. We also enjoyed a couple of gatherings including “students Day” and “Teachers Day”, too.

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. However, due to recent sanctions and limitation of the budget we could not purchase any considerable instruments, this year.

In addition to achievements of the faculty members, Immunology post graduate students presented several oral and poster presentations in various national or

international congresses 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. Samaneh Khorrami, Dr. Elaheh Safari and Dr. Nazanin Mojtavavi, department co-director, deputies of the Education of Graduate students, Education of Undergraduate students and Research committees of the department, who showed great effort in coordination and arrangement of the courses, exams and research affairs, respectively. I would like also to thank Dr. Reza Falak and Mr. Yaser Bagheri for their collaboration in preparation of this report. We 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. Department Members

Mehdi Shekarabi, Ph.D

Nader Tajik, Ph.D

Nazanin Mojtabavi, Ph.D

Reza Falak, Ph.D

Mohammad-Ali Assarehzadegan, Ph.D

Elahe Safari, Ph.D

Hadi Jazayeri, Ph.D

Ali Akbar Delbandi, Ph.D

Samaneh Khorami, 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

C. Department Teaching and Research Assistants

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

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

Katayoun Heshmati (Cell Culture Lab RA, Medical Immunology Lab TA)

D. 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

Publications

1. Seif F, Ghalehbaghi B, Azami H, Mohebbi A, Ahmadi A, Falak R, Babaheidarian P, Najafi M, Khoshmirsafa M, Ghalehbaghi S, **Shekarabi M**. Frequency of CD4+ and CD8+ T cells in Iranain chronic rhinosinusitis patients. *Allergy Asthma and clinical Immunology* 2018, 14(47).
2. Asgari F, Falak R, Teimourian S, pourakbari B, Ebrahimnejhad S, **Shekarabi M**. Effects of oral probiotic feeding on Toll-like receptor (TLR) gene expression of the chicken's cecal tonsil. *Reports of Biochemistry and Molecular Biology* 2018; 6(2):151-157.
3. Khoshmirsafa M, Kianmehr N, Falak R, Mowla SJ, Seif F, Mirzaei B, Valizadeh M, **Shekarabi M**. Elevatd expression of miR-21 and miR-155 in peripheral blood mononuclear cells as potential biomarkers for lupus nephritis. *Int J Rheum Dis.* 2018.
4. Arab M, Razzaghy-azar M, Salehi Z, Keshavarz M, Nasli- Esfahani E, **Shekarabi M**, Izad M. Increased Circulating T Follicular Helper Cells in Iranian Children with Type I Diabetes. *Iranian Journal of Allergy, Asthma and Immunology* 2018
5. Laribi B, Sahraian MA, **Shekarabi M**, Emamnejad R, Marzban M, Sadaghiani S, Izad M.Characterization of CD4+ and CD8+ T Cell Subsets and Interferon Regulatory Factor 4 (IRF4) in MS Patients Treated with Fingolimod (FTY-720); A Follow-up Study. *Iran J Allergy Asthma Immunol* 2018; 17(4):346-360

Nader Tajik, Ph.D

Professor of Immunology



Research interest: Transplantation Immunology and Immunogenetics; Molecular studies of the complexity, polymorphism and functional roles of HLA genes; Immunogenetic profiling in transplantation and various clinical conditions; Study of cytokines, killer cell immunoglobulin-like receptors, adhesion and other immunoregulatory molecules, Regenerative medicine and Immunology of stem cells.

Publications

- 1- Motedayyen H, Zarnani AH, **Tajik N**, Ghotloo S, Rezaei A. Immunomodulatory effects of human amniotic epithelial cells on naive CD4⁺T cells from women with unexplained recurrent spontaneous abortion. *Placenta* 2018, 71, 31-40.
- 2- Naderi H, Pourmand G, Dehghani S, Nikoueinejad H, Jafari M, **Tajik N**. Monitoring cellular immune function of renal transplant recipients based on adenosine triphosphate (ATP) production by mitogen-induced CD4⁺ T helper cells. *Biomed Pharmacother* 2018; 107:1402-1409.
- 3- Baharlou R, **Tajik N**, Behdani M, Shokrgozar MA, Tavana V, Kazemi-Lomedasht F, Faraji F, Habibi-Anbouhi M. An antibody fragment against human delta-like ligand-4 for inhibition of cell proliferation and neovascularization. *Immunopharmacol Immunotoxicol.* 2018; 5:1-7.
- 4- Motedayyen H, Rezaei A, Zarnani AH, **Tajik N**. Human amniotic epithelial cells inhibit activation and pro-inflammatory cytokines production of naive CD4⁺ T cells from women with unexplained recurrent spontaneous abortion. *Reprod Biol* 2018, S1642-431X (18)30097-4.
- 5- Sanaei R, Rezaei N, Aghamohammadi A, Delbandi AA, Teimourian S, Yazdani R, Tavasolian P, Kiaee F, **Tajik N**. Evaluation of the TLR negative regulatory network in COVID patients. *Genes Immun.* 2018.
- 6- Faraji F, **Tajik N**, Behdani M, Shokrgozar MA, Zarnani AH, Shahhosseini F, Habibi-Anbouhi M. Development and characterization of a camelid single-domain antibody directed to human CD22 biomarker. *Biotechnol Appl Biochem* 2018.
- 7- 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.

Nazanin Mojtavavi, Ph.D

Assistant Professor of Immunology



Research interest

Fibrosis, Autoimmunity, Allergic asthma, Allergooncology

Publications

1. Izadi E, Vafashoar F, Jorbozedar P, Safari P, Assarehzadegan MA, Poormoghim H, Kuhpayezadeh J, **Mojtabavi N**. Effect of Progesterone on Expression of MMP7 and MMP13 in Lungs of Female Mice. *Iran J Allergy Asthma Immunol* 2018; 17(5):485-489
2. Pashangzadeh S, Taherian M, Vafashoar F, Anisian A, Mousavizadeh K, Poormoghim H, **Mojtabavi N**. The Effect of Dexamethasone on Bleomycin-Induced Lung Fibrosis in the Mouse Model of Systemic Sclerosis. *Qom University of Medical Sciences Journal* 2018.



Reza Falak, Ph.D

Associate Professor of Immunology

Research interests

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

Publications

- 1- Khanmohammadi M, **Falak R***, Meamar AR, Razmjou E, Mokhtarian K, Arshadi M, Shayanfar N, Akhlaghi L. Assessment of *Dirofilaria immitis* Somatic and Excretory/Secretory Immunoreactive Proteins: A New Insight for Serodiagnosis of Zoonotic Filarial Parasites. *Parasite immunology* 2018.
- 2- Sadeghiyan Galeshkalami N, Abdollahi M, Najafi R, Baeeri M, Jamshidzade A, **Falak R**, Davoodzadeh Gholami M, Hassanzadeh GR, Mokhtarihi T, Hassani S, Rahimifard M, Hosseini A. Alpha-lipoic acid and coenzyme Q10 combination ameliorates experimental diabetic neuropathy by modulating oxidative stress and apoptosis. *Life Sciences* 2018; 216: 101-110.
- 3- Khoshmirsafa M, Kianmehr N, **Falak R**, Mola SJ, Seif F, Mirzaei B, Valizadeh M, Shekarabi M. Elevated expression of miR-21 and miR-155 in peripheral blood mononuclear cells as potential biomarkers for lupus nephritis. *International Journal of Rheumatic Disease* 2018;1-10.
- 4- Roozbehani M, **Falak R**, Mohammadi M, Hemphill A, Razmjou E, Meamar AR, Masoori L, Khoshmirsafa M, Moradi M, Gharavi MJ. Characterization of a multi-epitope peptide with selective MHC-binding capabilities encapsulated in PLGA nanoparticles as a novel vaccine candidate against *Toxoplasma gondii* infection. *Vaccine* 2018; 36:6124-32.
- 5- Mohammadi M, **Falak R***, Zolfaghari Emameh R, June Maleki S and Kardar GA. Computational analysis of specific IgE *epitopes* responsible for allergy to fish. *Current Immunology Reviews* 2018;14(2):130-136.
- 6- Aazami H, Seif F, Ghalehbaghi B, Mohebbi A, Ahmadi A, Babaheidarian P, Entezami KZ, Khoshmirsafa M, Ghalehbaghi S, **Falak R***. Levels of total IgA and IgA subclasses in the serum of chronic rhinosinusitis patients. *Medical Journal Islamic Republic of Iran* 2018.
- 7- Faraji F, Karjoo Z, Vakili Moghaddam M, Heidari S, Zolfaghari Emameh R, **Falak R***. Challenges Related to the Immunogenicity of Parenteral Recombinant Proteins: Underlying Mechanisms and New Approaches to Overcome It. *International Reviews of Immunology* 2018.
- 8- Seif F, Ghalehbaghi B, Azami H, Mohebbi A, Ahmadi A, **Falak R**, Babaheidarian P, Najafi M, Khoshmirsafa M, Ghalehbaghi S, Shekarabi M. Frequency of CD4+ and CD8+ T cells in Iranain chronic rhinosinusitis patients. *Allergy Asthma & clinical Immunology* 2018, 14(47).

- 9- Namazi Sarvestani N, Saberi Firouzi S, **Falak R**, Karimi MY, Davoodzadeh Gholami M, Rangbar A, Hosseini A. Phosphodiesterase 4 and 7 inhibitors produce protective effects against high glucose-induced neurotoxicity in PC12 cells via modulation of the oxidative stress, apoptosis and inflammation pathways. *Metabolic Brain Disease* 2018.
- 10- Fanuel S, Tabesh S, Mokhtarian K, Saroddiny E, Fazlollahi MR, Pourpak Z, **Falak R**, Kardar GA; Construction of a recombinant B-cell epitope vaccine based on a Der p 1-derived hypoallergen: a bioinformatics approach. *Immunotherapy* 2018.
- 11- Gholami M, Salimi Chirani A, **Falak R**, Moshiri M, Razavi S, Irajian GR; Induction of Specific Humoral Immune Response in Mice against a *Pseudomonas aeruginosa* Chimeric PilQ/PilA Protein. *Reports of Biochemistry and Molecular Biology* 2018; 7(1):38-44
- 12- Mokhtarian K, Meamar AR, KhoshMirsafo M, Razmjou E, Masoori L, Khanmohammadi M, Akhlaghi L, **Falak R***; Comparative assessment of recombinant and native immunogenic forms of *Fasciola hepatica* proteins for serodiagnosis of sheep Fasciolosis. *Parasitology Research* 2018, 117(1):225-232.
- 13- Asgari F, **Falak R**, Teimourian S, pourakbari B, Ebrahimnejhad S, Shekarabi M. Effects of oral probiotic feeding on Toll-like receptor (TLR) gene expression of the chicken's cecal tonsil. *Reports of Biochemistry and Molecular Biology* 2018; 6(2):151-157.
- 14- Gholami S, Gheibi N, **Falak R**, Goodarzvand Chegini K; Cloning, expression, purification and CD analysis of recombinant human Betatrophin. *Reports of Biochemistry and Molecular Biology*. 2018, 6(2):158-163.
- 15- Jafari R, Aflatoonian R, **Falak R**, Pourmand G, Dehghan 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. *Molecular Immunology*, 2018.
- 16- Nejatbakhsh Samimi L, Fallahpour M, Khoshmirsafo M, Baharloo R, Jorbozohdar P, Mousavi SAJ, **Falak R***; Evaluation of the impact of estrogen and progesterone on expression of T-bet and secretion of IFN-g from peripheral mononuclear cells of allergic asthma patients in comparison to healthy controls. *Razi Journal of Medical Sciences*; 2018; 25(170):19-28.
- 17- Abbasi HR, Saraygord-Afshari N, Mohammadi N, Farajollahi MM, **Falak R**; Improving Proteome Coverage for Hs578T Breast Cancer Cell-Line due to Efficient Interfering Removal; *Journal of Isfahan Medical School*; 2018; 36(471):216-220.

Books

Falak R; Principals and practical methods in purification of natural and recombinant proteins (in Persian). Second edition, Published in 2018 by Heidary Publication Co.

Mohammad-Ali Assarehzadegan, Ph.D

Associate Professor of Immunology



Research interest: Immunology and Allergology

Publications

- 1- Izadi E, Vafashoar F, Jorbozedar P, Safari P, **Assarehzadegan MA**, Poormoghim H, Kuhpayezadeh J, Mojtabavi N. Effect of Progesterone on Expression of MMP7 and MMP13 in Lungs of Female Mice. *Iran J Allergy Asthma Immunol* 2018; 17(5):485-489
- 2- Mansouri E, **Assarehzadegan MA**, Nejad-Dehbashi F. Effects of Pravastatin in Adriamycin-Induced Nephropathy in Rats. *Iranian Journal of Pharmaceutical Research*, 2018.
- 3- Farajzadeh Sheikh A, Goodarzi H, Hashemi SJ, Aslani S, **Assarzadegan MA**, Ranjbar R. *CagA* and *vacA* allelic combination of *Helicobacter pylori* in gastroduodenal disorders. *Microbial pathogenesis* 2018; 122, 144-150
- 4- Zabihzadeh M, Hoseini-Ghahfarokhi M, Bayati V, Teimoori A, Ramezani Z, **Assarehzadegan MA**, Pishghadam M. Enhancement of radio-sensitivity of colorectal cancer cells by gold nanoparticles at 18 MV energy. *Nanomedicine Journal* 2018; 5 (2), 111-120

Books

Acacia Pollen: An Important Cause of Pollinosis in Tropical and Subtropical Regions Book, Acacia characteristics, Distribution and Uses. Pages: 193-212. Nova Science Publishers 2018

Ali-Akbar Delbandi, Ph.D

Assistant Professor of Immunology

Research interests: Reproductive Immunology



Publications

1. Kolahdouz-Mohammadi R, **Delbandi AA**, Khodaverdi S, Arefi S, Arablou T, Shidfar T. The Effects of Resveratrol Treatment on Bcl-2 and Bax Gene Expression in Endometriotic Compared with Non-endometriotic Stromal Cells. Iranian Journal of Public Health 2018
2. Sanaei R, Rezaei N, Aghamohammadi A, **Delbandi AA**, Teimourian S, Yazdani R, Tavasolian P, Kiaee F, Tajik N. Evaluation of the TLR negative regulatory network in COVID patients. Genes Immun. 2018 Apr 5. doi: 10.1038/s41435-018-0022-3.
3. Alipour E, Shekarabi M, Moosavi S A J, **Delbandi AA**, Kouranifar S, Teimourian S, et al. Prevalence of Latent Tuberculosis infection in lung cancer patients and compare it with healthy individuals. RJMS. 2018; 25 (2):49-57.
4. **Delbandi AA**, Mohammadi T, Moradi Z. The level of soluble Fas ligand in peritoneal fluid and serum in women with endometriosis compared to non-endometriosis women. RJMS. 2018; 25 (9).

Books

- 1- Falak R; **Delbandi A.A.** Principals and practical methods in purification of natural and recombinant proteins (in Persian). Second edition, Published in 2018 by Heidary Publication Co.
- 2- **Delbandi A.A.** Organ immunology (in Persian). First edition, Published in 2018 by Chehr Publication

Elahe Safar, Ph.D

Assistant Professor of Immunology

Research interests: Cancer Immunology



Publications

1. **Safari E**, Ghorghanlu S. Myeloid-derived suppressor cells and tumor: Current knowledge and future perspectives. 2018.
2. **Safari E**, Mosayebi G, Khorrami S. Dkk-3 as a potential biomarker for diagnosis and prognosis of colorectal cancer. Med J Islam Repub Iran. 2018; 32(1):502-506
3. Safari E, **Khorrami S**, Tavakoli M. Clinical value of serum S100A8/A9 and CA15-3 in the diagnosis of breast cancer. Iran J Pathol.
4. Kiani Markani L, Kiani Markani F, Kadivar M, Hossinaei N, **Safari E***. Breast Metastasis from Gastric Carcinoma: A Case Report. Journal of Breast Cancer.

Mir Hadi Jazayeri, Ph.D

Assistant Professor of Immunology



Research interests

Publications

- 1- **Jazayeri, MH***, Aghaie, T. Colorimetric detection based on gold nano particles (GNPs): An easy, fast, inexpensive, low-cost and short time method in detection of analytes (protein, DNA, and ion). 2018, Sensing and Bio-Sensing Research:1-8.
- 2- Bahrami A, and **Jazayeri MH**. Targeting the tumor microenvironment as a potential therapeutic approach in colorectal cancer: Rational and progress. 2018, Journal of cellular physiology 233(4):2928-2936.
- 3- Rivandi M, and, **Jazayeri MH**. The 9p21 locus: A potential therapeutic target and prognostic marker in breast cancer. 2018, Journal of cellular physiology 233(7):5170-5179.
- 4- Bahrami A, Hassanian, **Jazayeri MH**. The 9p21 locus as a potential therapeutic target and prognostic marker in colorectal cancer. 2018, Pharmacogenomics 19(10):873-873.
- 5- Moradi M, Ferns GA, **Jazayeri MH**. Targeting the death receptor signaling pathway as a potential therapeutic target in the treatment of colorectal cancer. 2018, Journal of Cellular Physiology, 233(10):6538-6549,
- 6- Vatankhah A, and **Jazayeri MH**. Characterization of cellular and humoral immune responses to alkaline phosphatase from fertile hydatid cysts in the human peripheral blood. 2018, Journal of cellular physiology 234(3):2765-2777.
- 7- AghaieT, **Jazayeri MH***. Gold nanoparticle and polyethylene glycol in neural regeneration in the treatment of neurodegenerative diseases. 2018, Journal of cellular biochemistry 120(1).
- 8- Jorbozedar P, **Jazayeri MH***, "Immunculus as an Approach for the Evaluation of Multiple Sclerosis: A Case Report". 2018, Biomed J Sci & Tech Res 12(2).

Book:

Natural antibodies and the pattern of Natural Autoantibodies (Immunculus), 2018.

Samaneh Khorrami, Ph.D

Assistant Professor of Immunology



Research Interest: Cancer Immunology

Publications

- 1- **Khorrami S**, Daneshmandi S, Mosayebi Gh. Sesame seeds essential oil and Sesamol modulate the pro-inflammatory function of macrophages and dendritic cells and promote Th2 response. Med J Islam Repub Iran. 2018; 32:98.
- 2- Safarnezhad Tameshkel F, Karbalaie Niya MH, Kheyri Z, Azizi D, Roozafzai F, **Khorrami S**. The Evaluation of Diagnostic and Predictive Values of Helicobacter pylori Stool Antigen Test in Iranian Patients with Dyspepsia. Iran J Pathol 2018; 13(1):39-44.
- 3- Safari E, Mosayebi G, **Khorrami S**. Dkk-3 as a potential biomarker for diagnosis and prognosis of colorectal cancer. Med J Islam Repub Iran. 2018; 32(1):502-506
- 4- Safari E, **Khorrami S**, Tavakoli M. Clinical value of serum S100A8/A9 and CA15-3 in the diagnosis of breast cancer. Iran J Pathol.

Section III Teaching and Learning

A. Post Graduate Programs

Ph.D Student Courses

Bioinformatics and Immunoinformatics (Immunology students)

Principals of Immunochemistry (Nutrition students)

Advanced course in Immunology (Immunology students)

Clinical Immunology (Immunology students)

Organ Immunology (Immunology students)

Basic Immunology (Nutrition students)

Immunotherapy (Immunology students)

Immunology and Immnogenetics (Molecular Medicine students)

Immunopharmacology (Pharmacology students)

Immunology (Biology of Reproduction students)

Biosafety (Ph.D students from all departments)

MSc Student Courses

Immunoheamatology and Blood Banking (Immunology students)

Immunology I (Immunology students)

Principals of Immunochemistry (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

Immunology for students of Nursery (Theoretical)

Immunology for students of Nursery (Practical)

Workshops

Title	Lecturers
Phage display workshop (held twice)	F. Faraji, R. Baharlou
Graph Pad Prism (held twice)	M. Khoshmirasfa
Statistical analysis	M. Khoshmirasfa
Real time PCR	M. Khoshmirasfa

Journal Clubs:

اسامی ارائه دهندگان	تاریخ	مقطع تحصیلی
طاهره محمدی	۹۶/۱۰/۴	کارشناسی ارشد
مجید خوش میرصفا	۹۶/۱۰/۱۱	دکترای تخصصی
فاطمه عابدینی	۹۶/۱۱/۲	کارشناسی ارشد
رقیه جعفرپور	۹۶/۱۱/۱۶	کارشناسی ارشد
سالار پشنگ زاده	۹۶/۱۲/۷	کارشناسی ارشد
زینب شجاعی	۹۶/۱۲/۲۱	کارشناسی ارشد
آزاده خالوندی	۹۷/۱/۲۷	کارشناسی ارشد
هاشم بیاتی پور	۹۷/۲/۲۴	کارشناسی ارشد
جعفر کرمی	۹۷/۳/۷	دکترای تخصصی
حمید نیکخو	۹۷/۳/۲۱	دکترای تخصصی
علیرضا نجفی	۹۷/۴/۴	دکترای تخصصی
شیرین تقی زاده	۹۷/۴/۲۵	دکترای تخصصی
فرشته قاسمی	۹۷/۵/۱۵	کارشناسی ارشد
مرتضی مطلب نژاد	۹۷/۵/۲۹	دکترای تخصصی
شقایق پزشکی	۹۷/۶/۱۲	دکترای تخصصی
مهسا کلانتری	۹۷/۶/۲۶	کارشناسی ارشد
شیده نمازی	۹۷/۷/۹	دکترای تخصصی
فرزاد نصر	۹۷/۷/۲۳	کارشناسی ارشد
فرهاد سیف	۹۷/۸/۷	دکترای تخصصی
محمدحسین کاظمی	۹۷/۸/۲۱	دکترای تخصصی
طیبه اقایبی	۹۷/۹/۱۹	کارشناسی ارشد
صابر مهدی زاده	۹۷/۱۰/۳	کارشناسی ارشد

Section IV Academic & Community Service and ceremonies

Thesis defense

عنوان پایان نامه	نام و نام خانوادگی
بررسی اثر تنظیمی هورمونهای جنسی زنانه (استروژن و پروژسترون) بر بیان فاکتورهای نسخه برداری و ترشح سایتوکاینهای مرتبط با زیر گروههای لنفوسیت T در کشت سلولهای تک هسته ای خون محیطی بیماران یائسه مبتلا به آسم	لیلا صمیمی
Development of a camelid single domain antibody (Nanobody) directed to delta like ligand 4 (DLL4) antigen; a cancer stem cell biomarker	رسول بهارلو
بررسی اثرات ایمونومدولاتوری ویتامین D3 بر بیان ژن و پروتئین Fas, FasL و sFasL در سلول های استرومال اندومتر اکتوپیک و یوتوپیک، سلول های تک هسته ای مایع پریتونئ و خون محیطی بیماران مبتلا به اندومتریوز	طاهره محمدی
بررسی اثر ایمونومدولاتوری ویتامین D3 بر میزان بیان در سطح ژن و پروتئین فاکتورهای مرتبط با رگزایی VEGF، TGF- β 1 و MMP9 توسط سلول های تک هسته ای مایع پریتونئ و خون محیطی و سلول های استرومال اندومتر اکتوپیک و یوتوپیک بیماران مبتلا به اندومتریوز در مقایسه با افراد غیراندومتریوتیک	زهرا مرادی
بررسی سیتو توکسیسیته و القای آپوپتوز ناشی از پروتئین TRAIL متصل به ABP در محیط کشت سلولی	سپیده محسنی
بررسی اثرات ایمونومدولاتوری عصاره ی پلی ساکارییدی گیاه گون در هم کشتی سلول های تک هسته ای خون محیطی و رده های سلولی سرطان دهانه ی رحم و تخمدان	الهام شوکتی
اختصاصی بر علیه سورواپوین در افراد مبتلا به Igm سطحی و محلول و تعیین میزان CD5 بررسی سرطان مثانه	زهرا رودافشانی
MCP-1, HGF و IGF-1 بر میزان بیان ژن و پروتئین فاکتورهای رشد D بررسی اثر ویتامین توسط سلول های تک هسته ای مایع پریتونئ بیماران مبتلا به اندومتریوز 1	ساحل حیدری
ایمونو مدولاتوری پروتئین های با وزن کم سیر در هم کشتی سلول های تک هسته ای بررسی اثر خون محیطی و رده سلولی سرطان کولون و رکتوم	مونا امانی
ساخت و ارزیابی نانوبادی (آنتی بادی تک دومین شتری) ضد آنتی ژن CD22	فاطمه فرجی
بررسی تأثیر پروژسترون در مدل موشی اسکروز سیستمیک	فاطمه وفاشعار
سرمی در مالتیپل IL-10 و IL-6 خون محیطی همراه با NK و B1 مقایسه فراوانی سلول های اسکروز با بیماران نورومیلیت اپتیکا	لیلا خانی

بررسی میزان بیان <i>anti-ds-DNA</i> ، <i>ant-C1q</i> و <i>anti-C3b</i> در بیماران لوپوس اریتماتوز سیستمیک و ارتباط آن با نفریت لوپوسی	فروزان امیدی
بررسی بیان <i>miR-23a-3p</i> ، <i>miR-181b-5p</i> ، <i>BCL-2</i> و <i>IL-6</i> در <i>PBMC</i> بیماران اوتیسم	حسین عطوان
بررسی ارتباط سطح بیان پروتئین‌های مهارکننده پیام‌رسانی سایتوکاین ۱، ۳ و ۵ (<i>SOCS1,3&5</i>) با الگوی سلول‌های <i>T</i> کمکی و سایتوکاین‌های مربوطه در بافت سینوس‌های بینی بیماران مبتلا به رینوسینوزیت مزمن (<i>CRS</i>)	فرهاد سیف
بررسی اثرات سوپرناتانت سلول‌های بنیادی مزانشیمی تیمار شده با <i>Compound K</i> بر ویژگی‌های بنیادین و تومورزایی رده سلولی سرطانی کولون موشی <i>CT26</i>	مرضیه عسگری
های انتخابی به عنوان بیومارکر در پلاسما و اگزوزوم‌ها، در بیماران مبتلا <i>microRNA</i> بررسی بیان و مقایسه با افراد سالم (<i>SLE</i>) به لوپوس اریتماتوز سیستمیک	مجید خوش میرصفا

Jounior MS.c Students

Mr. Ali Zarezadeh

Mr. Pooya Farhangnia

Mrs. Shiva Dehrouyeh

Mrs. Mohadeseh Mouhebat

Mrs. Nafiseh Behranvand

Mrs. Nazanin Aghamohammadi

Mrs. Negar Ahmadian

Ceremony at the end of 2018

