

## "Curriculum Vitae"

### *Personal details:*

First name: **Mojgan**

Surname: **Mohammadi**



### **Address:**

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### *Education:*

**2004-2006: Post-Doctoral Fellow** in primary immunodeficiency, HAE (Queen Marry University of London and the Royal London Hospital, London, UK)

**2002-2004: PhD** in Clinical Immunology (University of Manchester, Manchester, UK)

**2000-2001: MSc. Course** in Clinical Immunology (University of Manchester, Manchester, UK)

**1998-2000: MSc.** in Molecular Parasitology and vector biology (University of Manchester, Manchester, UK)

**1997-1998: Diploma in English** (Manchester College of Art and Technology, Manchester, UK)

**1988-1992: BSc. in Microbiology** (Azad University, Kerman, Iran)

### *Professional Qualifications:*

2005-: **Certified State registered** as Clinical Immunologist (Iranian Medical Council)

### *Membership at Professional organisation:*

- British Society for Immunology
- British Society for Histocompatibility and Immunogenetics
- British Society for Parasitology
- Iranian Medical Council

### *Current Employment*

**2012-: Associate professor in clinical immunology** (Faculty of medical Sciences, Department of Immunology, Kerman University of Medical Sciences, Kerman, Iran).

**2012-: Advisor for Medical students** (Kerman University of Medical Sciences, Kerman, Iran)

**2009-: Member of Physiology Research Centre** (Physiology Research Centre, Kerman University of Medical Sciences, Kerman, Iran)

**2008-: Member of Research Committee in Gastrointestinal Diseases**

### *Previous Employment and Appointments:*

**2009-2013-: Head of General Education** (Kerman University of Medical Sciences, Kerman, Iran)

**2008-2010-: Head of Laboratory Sciences Department** (Faculty of allied medical Sciences, Kerman University of Medical Sciences, Kerman, Iran)

**2009-: Deputy Director of Medical Education and Development centre** (Kerman University of Medical Sciences, Kerman, Iran)

**2009-: Executive Director of Gifted and Talented Students Centre** (Kerman University of Medical Sciences, Kerman, Iran)

**2009-: Manager of executive committee for first Iranian Medical students Olympiads** (Kerman University of Medical Sciences, Kerman, Iran)

**2008-2009: Academic Member of Student Research Committee** (Kerman University of Medical Sciences, Kerman, Iran)

**2009: Member of Research Committee affiliated to Faculty of Allied Medical Sciences** (Kerman University of Medical Sciences, Kerman, Iran).

**2009: Head of curriculum design committee in Education and Development office affiliated to Faculty of Allied Medical Sciences** (Kerman University of Medical Sciences, Kerman, Iran).

**2008-: Superior advisor of student advisors affiliated to Faculty of Allied Medical Sciences** (Kerman University of Medical Sciences, Kerman, Iran)

**2008-: Advisor for Medical Laboratory's Sciences students** (Kerman University of Medical Sciences, Kerman, Iran)

**2007-: Assistant Professor in Clinical Immunology** (Faculty of allied medical Sciences, Department of Immunology, Kerman University of Medical Sciences,

Kerman, Iran).

**2004-2006: Post-Doctoral Fellow** (Queen Mary University of London and the Royal London Hospital, London, UK).

**1992-1997: Academic Instructor** (Azad University, Kerman, Iran).

### *Teaching experience*

**2007-2014:** Teaching Clinical Immunology to Medical, Pharmacy, Dentistry, Medical Laboratory Sciences, Midwifery and Nursing students. Teaching of specific Medical Immunology courses to Postgraduate students in different fields of medical sciences, such as Senior Registrars, Ph.D. and MSc students (Kerman University of Medical Sciences, Kerman, Iran).

**1992-1997:** Teaching of experimental biochemistry to Microbiology, Midwifery and Nursing students).

### *Trainee/Workshops/experience:*

**2005-2006: Registered as BSHI (British Society for Histocompatibility and Immunogenetics) trainee** (Clinical Transplantation Laboratory, The Royal London Hospital, London, UK).

- **Trainee (2001)** I had been trained for different PCR and specially RT-PCR techniques. (The University of Manchester, Department of Rheumatology, Manchester, UK).
- **Workshop (2004)** International HAE (Hereditary Angioedema) scientific/medical Workshop, October 2004 in Gargnano, Italy.
- **Workshop (2005)** 4th European C1-INH Deficiency scientific/medical Workshop, April 2005 in Budapest, Hungary.

- دبیر اجرایی اولین کارگاه آموزشی سما و قوانین آموزشی دانشگاه علوم پزشکی کرمان (۱۳۹۰)، معاونت آموزشی دانشگاه علوم پزشکی کرمان، ایران.

### *Technical skills*

#### **A- Genetic:**

DNA and RNA extraction, Primer design, Bioinformatics searches at DNA databases, Basic statistical analysis of genetic data (including EH (Estimated Haplotype) program, STATA), DNA cloning, TaqMan® Real-Time PCR, PCR-SSCP, PCR-RFLP, ARMS-PCR (SSP), semi-quantitative RT-PCR, DNA sequencing.

#### **B- Immunology and Immunogenetics:**

ELISA, Cell culture, SDS-PAGE, EITB, Western blotting, HLA (Human Leukocyte Antigen) typing (by molecular and serology methods).

### **C- Biochemistry:**

Electrophoresis and Spectrophotometer analysis.

### **D- Computer skills:**

I am proficient in the following programmes: Access and Excel databases, Word processing, Power point, graphic and presentation soft wares.

### ***Publications:***

1. Mohammadi M, Zahedi MJ, Nikpoor AR, Nazem M, Khazaeli P, Hayatbakhsh MM. Determination of vitamin D serum levels and status of the C3435T polymorphism of multidrug resistance 1 gene in ulcerative colitis patients in Kerman, Iran. Recently submitted to Saudi Medical Journal.
2. Mohammadi M, Rastin M, Rafatpanah H, Abdoli Sereshki H, Zahedi MJ, Nikpoor AR, Baneshi MR, Hayatbakhsh MM. Association of HLA-DRB1 with ulcerative colitis in the population of Kerman, southeast Iran; protective effect of HLA-DRB1\*04 allele on the disease. Recently submitted to International Journal of Immunogenetics.
3. Soukhtanloo M, Talebian E, Golchin M, Mohammadi M, Amirheidari B. Production and Characterization of Monoclonal Antibodies against Aflatoxin B1. J Immunoassay Immunochem. 2014; 35(4):335-43.
4. Kaviani M, Ezzatabadipour M, Nematollahi SN, Salehinejad P, Mohammadi M, Kalantar SM, Motamedi B. Evaluation of gametogenic potential of vitrified human umbilical cord Wharton's jelly-derived mesenchymal cells. Cytotherapy, 2014; 16: 203e212
5. Ezzatabadipour M, Kaviani M, Salehinejad P, Mohammadi M, Nematollahi-Mahani SN. Verification of human umbilical cord wharton's jelly-derived mesenchymal stem cells. CryoLetters. 2013; 34 (5): 471-480
6. Mohammadi M, Zahedi MJ, Nikpoor AR, Baneshi MR, Hayatbakhsh\* MM. Interleukin-17 serum levels and TLR-4 polymorphisms in Ulcerative Colitis. Iranian Journal of Immunology. 2013; 10(2):83-92
7. Hayatbakhsh MM, Zahedi MJ, Shafiepour M, Nikpoor AR, Mohammadi M\*. IL-23 Receptor Gene rs7517847 and rs1004819 SNPs in Ulcerative Colitis. Iranian Journal of Immunology. 2012; 9 (2): 128-135

8. Mohammadi M\*, Hayatbakhsh MM, Zahedi MJ, Jalalpour MR, Pakgozar A. Serum Interleukin-23 Levels in Patients with Ulcerative Colitis. Iranian Journal of Immunology. 2011; 8 (3): 183-188
9. Mohammadi M\*, Day PJ. The influence of immunosuppressive drugs on vascular endothelial growth factor production in relation to VEGF -1154G and -2578 C genotypes. Iranian journal of Immunology. 2010; 6 (4): 217-225
10. Mohammadi M\*, Bazrafshani MR, Day PJ, Ollier WER. Vascular endothelial growth factor production is regulated by gene polymorphisms. Iranian Journal of Immunology. 2009; 6 (3): 119-129
11. Tarzi MD\*, Hickey M, Förster T, Mohammadi M and Longhurst HJ. An evaluation of tests used for the diagnosis and monitoring of C1 inhibitor deficiency: normal serum C4 does not exclude hereditary angio-oedema. Clinical and Experimental Immunology. 2007; 149 (3): 513-6.
12. Mohammadi M, Day PJ\*. Oligonucleotides used as template calibrators for general application in quantitative polymerase chain reaction. Anal Biochem. 2004; 335 (2): 299-304.

**Published Abstracts (Conferences presentations):**

۱. یادگیری الکترونیک و چالش ارزیابی فراگیران. علی مهدی زاده، پروین رضایی گزگی، مژگان محمدی. پنجمین همایش یادگیری الکترونیکی در آموزش علوم پزشکی. بهمن ۱۳۹۰، کرمان، ایران.
۲. دبیر اجرایی اولین کارگاه آموزشی سما و قوانین آموزشی دانشگاه علوم پزشکی کرمان. دیماه ۱۳۹۰. معاونت آموزشی دانشگاه علوم پزشکی کرمان، ایران.
۳. جستاری در مفهوم عدالت آموزشی. پروین رضایی، مژگان محمدی. دوازدهمین همایش کشوری آموزش پزشکی. اردیبهشت ۱۳۹۰، مشهد، ایران.
۴. ارزیابی یکپارچگی درونی نمرات دانشجویان پزشکی دانشگاه علوم پزشکی کرمان در درس ایمنولوژی و پاتولوژی (سخنرانی). مژگان محمدی، علی اکبر حقدوست، رضا ملکپور افشار، حسین صافی زاده. پانزدهمین همایش کشوری آموزش پزشکی. اردیبهشت ۱۳۹۳، یزد، ایران.
5. Lack of association between FAS -1377 G>A gene polymorphism and metastasis of breast cancer in Iran. M Mohammadi, J Tavakolafshari, A Jalali, M Davarpanah, F Homaei Shandiz, M Reza Baneshi. 44th Annual Meeting of the German Society for Immunology. Bonn, Germany. September 2014.
6. Vitamin D receptor TaqI polymorphism in children with urolithiasis in Kerman. M Mohammadi, Parvaresh s, Maftouhi M, Nikpoor AR. 12<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, May 2014.
7. Thr399Ile polymorphism in Toll like receptor 4 gene may be a predictive factor for severity of ulcerative colitis. AM Nikpoor, M Mohammadi, MM Hayatbakhsh, MJ Zahedi. 12<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, May 2014.
8. To investigate the linkage disequilibrium between HLA-DRB1 and TLR4 gene

polymorphisms in the development of ulcerative colitis. M Mohammadi, H Abdoli Sereshki, AM Nikpoor, MM Hayatbakhsh, MJ Zahedi, H Rafatpanah, M Rastin, MR Baneshi. 12<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, May 2014.

9. M Mohammadi, MM Hayatbakhsh. Association between HLA-DRB1\*13 and severity of disease in ulcerative colitis patients in Kerman. Iranian congress of gastroenterology and hematology. Tehran, Iran, December 2013.

10. M Mohammadi, MM Hayatbakhsh MM, H Abdoli Sereshki, MJ Zahedi, AR Nikpoor, H Rafatpanah, M Rastin, MR Baneshi. Protective role of HLADRB1\*04 allele against ulcerative colitis in Iran. 15<sup>th</sup> International congress of immunology. Milan, Italy, August 2013.

11. H Abdoli Sereshki, M Mohammadi, MM Hayatbakhsh, MJ Zahedi, H Rafatpanah, M Rastin, MR Baneshi, AR Nikpoor. Investigating of correlation between HLA-DRB1 gene polymorphism and blood factors including, ESR, PLK, CRP in ulcerative colitis patients. The 5<sup>th</sup> International Congress of Laboratory and Clinic blood disorders. Tehran, Iran, February 2012

12. M Mohammadi, MM Hayatbakhsh, H Abdoli Sereshki, MJ Zahedi, H Rafatpanah, M Rastin, MR Baneshi, AR Nikpoor. Frequency of HLA-DRB1 gene polymorphisms in Kerman, south east Iran. The second international congress of immunology, asthma and allergy. Tehran, Iran, February 2013.

13. M Mohammadi, MM Hayatbakhsh, H Abdoli Sereshki, MJ Zahedi, H Rafatpanah, M Rastin, MR Baneshi, AR Nikpoor. Association between HLA-DRB1\*13 and severity of disease in ulcerative colitis patients in Kerman. 13<sup>th</sup> Iranian Congress of Gastroenterology and Hepatology. Tehran, Iran. November 2013.

14. M Mohammadi, AR Nikpoor, MM Hayatbakhsh, MJ Zahedi · Influence of interleukin-17 on hemoglobin levels in patients with ulcerative colitis. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.

15. M Mohammadi, MM Hayatbakhsh, M Shafiepour, MJ Zahedi, AR Nikpoor. IL-23 receptor genotype status and IL-23 serum levels in ulcerative colitis patients in Iran. **POSTER DISSCISSION**. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.

16. M Mohammadi, P Khazaeli, MM Hayatbakhsh, MJ Zahedi, M Nazem, AR Nikpoor. Vitamin D status and ulcerative colitis patients in Kerman, Iran. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.

17. M Mohammadi, PJR Day. Suppressive effect of cyclosporine A on vascular endothelial growth factor (VEGF) isoforms. **ORAL PRESENTATION**. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.

18. A Faghihi-Zarandi, S Pourabdian, MR Baneshi, M Mohammadi, P Kadivar. To investigate humoral immune response among stainless steel welders. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April



2012.

19. AR Nikpoor, M Mohammadi, MM Hayatbakhsh, MJ Zahedi, MR Baneshi. Relationship between IL-17 levels and ulcerative colitis. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.
  20. AR Nikpoor, M Mohammadi, A Khosravi Mashizi, AH Khoshi. Performance Evaluation of Salting out DNA extraction method, on blood samples with different storage conditions. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.
  21. AR Nikpoor, M Mohammadi, MM Hayatbakhsh, MJ Zahedi. Strong linkage disequilibrium between Asp299Gly A>G and Thr399Ile C>T polymorphisms in toll like receptor-4 gene. **POSTER DISCUSSION**. 11<sup>th</sup> International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.
  22. M Mohammadi, MM Hayatbakhsh, MJ Zahedi, AR Nickpou. To study association between Toll-like receptor gene polymorphisms and ulcerative colitis disease in Iran. 5<sup>th</sup> congress of the federation of immunological societies of Asia Oceania. New Delhi, India, March 2012.
  23. E Talebian, B Amir-Heidari, M Mohammadi, M Golchin. Production of monoclonal antibody against aflatoxin B1 in mice. 16<sup>th</sup> Iranian Pharmacy Students Seminar. Tehran, Iran, October 2011.
  24. M Mohammadi, MM Hayatbakhsh, MJ Zahedi, S Darvishmoghadam, MR Jalalpour. Serum level of interleukin-23 in ulcerative colitis: A novel marker for disease activity. Iranian congress of gastroenterology and hepatology-ICGH, Tehran, Iran, November 2010.
  25. M Mohammadi, PJ. Day. Studying of the effects of cyclosporine A on the VEGF isoforms expression revealed by TaqMan real-time RT-PCR. 9<sup>th</sup> international conference on immunosuppression and immunotherapy, Geneva, Switzerland, February 2010.
- ۲۶- ارزیابی سر فصلهای موجود در سیستم ایمنولوژی پزشکی. مزگان محمدی، علی اکبر حق دوست و حسین صافی زاده. هشتمین همایش کشوری آموزش پزشکی. اسفند ۱۳۸۵، کرمان، ایران.
27. M Mohammadi, H. Longhurst, P. Sinnott. C1 inhibitory gene analysis for patients with Hereditary Angioedema in the United Kingdom. **ORAL PRESENTATION**. (European Federation for Immunogenetics (EFI) 20<sup>th</sup> annual conference, Oslo, Norway, June 2006. Tissue Antigens, 2006. 67 (6): O38; 456).
  28. M Mohammadi, H. Longhurst, P. Sinnott. A novel mutation in the C1 inhibitor gene of a non-caucasoid family with Hereditary Angioedema.. (British Society for Histocompatibility and immunogenetics (BSHI) 17<sup>th</sup> annual meeting, Sheffield, UK, September 2005. International Journal of Immunogenetics, 2005).
  29. M Mohammadi, WER. Ollier and IV. Hutchinson. Investigation on correlation of

genotype combinations of VEGF –1154 G/A and –2578 C/A with suppression of VEGF production in the individuals after treatment with immunosuppressive drugs. (British society for Human Genetics (BSHG) annual conference, York, UK, September 2005. Journal of Medical Genetics, 2005. 42: S93).

30. M. Mohammadi, WER. Ollier and IV. Hutchinson. Investigation on the influence of cytokines and immunosuppressive drugs on VEGF production in the individuals with combinations of VEGF –1154 G/A and –2578 C/A genotype. **ORAL PRESENTATION.** (British Society for Histocompatibility and immunogenetics (BSHI) 16<sup>th</sup> annual meeting, Plymouth, UK, September 2005. International Journal of Immunogenetics, 2005. 32 (4): 263).

31. M. Mohammadi, PJ. Day, WER. Ollier, S. Data, N. Yonan and IV. Hutchinson. Investigation on VEGF splices variants in PBMCs and hearth transplants by semi quantitative RT-PCR and Taqman® real time PCR. **ORAL PRESENTATION.** (British Society for Histocompatibility and immunogenetics (BSHI) 16<sup>th</sup> annual meeting, Plymouth, UK, September 2005. International Journal of Immunogenetics, 2005.32 (4): 263).

32. M. Mohammadi, WER. Ollier and IV. Hutchinson. A functional association study of VEGF gene promoter polymorphisms with suppressive effect of Cyclosporin A and Mycophenolic Acid on VEGF expression in stimulated PBMCs by LPS. (The British Transplantation Society (BTS) congress, Birmingham, UK. April 2004).

33. M. Mohammadi, WER. Ollier and IV. Hutchinson. The relation between cytokine and VEGF polymorphisms in acute transplant rejection. (British Society for Immunology (BSI) congress, Harrogate, UK. December 2003. Immunology, 2003. 110: 86).

34. M. Mohammadi, WER. Ollier and IV. Hutchinson. A functional association study of VEGF gene promoter polymorphisms with VEGF expression by stimulated pbm cells. (American society for Histocompatibility and immunogenetics (ASHI) 29<sup>th</sup> annual meeting, Miami, USA, October 2003. Human Immunology, 2003. 64: 125).

35. M. Mohammadi, P.S. Craig. A novel protein identification in equine hydatidosis cyst fluid by western blot technique analysis. (British Society for Parasitology, annual meeting, Manchester, UK, April 2003).

#### ***Research projects:***

1. To investigate association between IL-23 serum levels and ulcerative colitis. Kerman University of medical Sciences. [It was considered for thesis of senior registrar in Gastroenterology, finished].
2. To investigate association between IL-23 receptor gene polymorphisms and ulcerative colitis. Kerman University of Medical Sciences. [It was considered for thesis of senior registrar in Gastroenterology, finished].
3. To investigate association between MDR-1 gene polymorphism C3435T and also vitamin D serum levels with ulcerative colitis. Kerman University



of Medical Sciences. [It was considered for thesis of pharmacy student, finished].

4. To investigate association between TLR-4 gene polymorphisms and also IL-17 serum levels with ulcerative colitis. Kerman University of Medical Sciences. [It was considered for thesis of MSc student in immunology, finished].
5. To investigate association between HLA DR-B1\*01 and HLA-DR-B1\*15 alleles and ulcerative colitis. Collaboration between Kerman University of Medical Sciences and Mashhad University of Medical Sciences. [It was considered for thesis of MSc student in immunology, finished].
6. To investigate association between VDR gene polymorphism and urolithiasis in children. Kerman University of Medical Sciences. [It was considered for thesis of medical student, finished].
7. To investigate association between serotonin transporter gene polymorphism, SLC6A4, and also serotonin levels in colon biopsies of patients with inflammatory bowel syndrome. Kerman University of Medical Sciences. [It was considered for thesis of senior registrar in Gastroenterology, finished].
8. To study on correlation between TNF- $\alpha$ , IL-8 and IL-6 serum levels and inflammatory bowel syndrome. Kerman University of Medical Sciences. [It was considered for thesis of senior registrar in Gastroenterology, in progress].
9. To investigate the effect of Pentoxifylline on the liver transaminases and also TNF- $\alpha$ , IL-8 and IL-6 serum levels in patients with non-alcoholic Steatohepatitis (NASH). Kerman University of Medical Sciences. [It was considered for thesis of senior registrar in Gastroenterology as a clinical trial, in progress].
10. To investigate association between Fas and Fas ligand gene polymorphisms and breast cancer in metastasis formation. Collaboration between Kerman University of Medical Sciences and Mashhad University of Medical Sciences. [It was considered for thesis of MSc student in immunology, in progress].
11. To establish a genetic protocol for diagnosing of hereditary angioedema (HAE) as a primary immunodeficiency disease, for the first time in England. [Post-Doctoral Fellowship, Queen Mary University of London, finished].