

## **CURRICULUM VITAE**

**Name:** Farah Idali  
**Date of birth:** 21 Mars 1961  
**Sex:** Female  
**Marital Status:** Married  
**Children:** 2  
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### **Education:**

- PhD in Pulmonary medicine & Allergology, Karolinska Institutet, Stockholm, Sweden. Nov.2003-Nov. 2008
- M.Sc in Biomedical Laboratory Science, Karolinska Institutet, Stockholm, Sweden. 1999-Jan. 2001
- B.Sc in Biomedical Laboratory Science, Stockholm University College of Health Sciences, Stockholm, Sweden. August 1993-June 1996

### **Experiences:**

#### **1-Research Activities:**

- Characterization of *S. aureus* binding to fibrinogen.
- Analysis of T cell receptor BV gene usage in Myasthenia Gravis patients.
- Analysis of cytokine production in Myasthenia Gravis patients by competitive PCR.
- Analysis of antibacterial peptides expression in lymphocytes.
- Analysis of cytokine production in pulmonary sarcoidosis.
- Analysis of regulatory T cells in the lungs of sarcoidosis patients and healthy subjects.
- Studies on nerve growth factors in the lungs of sarcoidosis patients.

- Studies on HLACII Transactivator gene-polymorphism in pulmonary sarcoidosis.
- Studies on T cell Ig-Mucin(TIM) molecules in pulmonary sarcoidosis.
- Studies on Toll-like receptors in pulmonary sarcoidosis.
- Studies on gene-polymorphisms in recurrent pregnancy loss.
- Studies on invitro generation of regulatory T cells from naive peripheral CD4+ CD25- human T cells.
- Investigating the effect of Soy isoflavonoids on breast tumor in murine breast tumor model.
- Investigating seasonal and physiological variations of *Phlebotomus papatasi* salivary gland antigens in central Iran
- Investigating invitro generation of mouse regulatory T cells.
- Investigating the immunotherapeutic potential of invitro generated regulatory T cells in murine recurrent spontaneous abortion model.
- Investigating the GCSF effects on assisted reproductive technology in patients with repeated implantation failure

## **2- Ongoing projects**

- Studying expression of regulatory T cells' related factors in tissues collected from mice received regulatory T cell immune therapy.

## **3- Lab Techniques:**

- Preparation of cell samples obtained from bronchoalvolar lavage (BAL) and blood,
- Cell separation methods,

- Cell culture,
- Proliferation assays, XTT
- CFSE staining,
- RNA and DNA extraction,
- RT-PCR,
- Competitive PCR,
- Realtime PCR,
- Western blot,
- Radio Immuno Assay,
- ELISA,
- Immuno fluorescence staining,
- Flow cytometry,
- Cytometric bead array,
- MLR, <sup>3</sup>H-thymidine

#### **4-Supervisor of M.Sc projects:**

- Generation of CD4<sup>+</sup>CD25<sup>++</sup> regulatory T cells by estrogen from human peripheral blood CD4<sup>+</sup>CD25<sup>-</sup> T cells.
- Investigating association of estrogen and progesterone receptor gene mutations with Recurrent Spontaneous Abortion syndrome.
- Investigating association of CTLA-4, FOXP3 and GITR polymorphisms with Recurrent Spontaneous Abortion syndrome .
- The generation of regulatory T cells from mouse splenic T cells and investigating their immunotherapeutic potential in murine recurrent spontaneous abortion model.

#### **6-Supervisor Ph.D. projects:**

- Evaluation of soy isoflavones extract effectiveness on breast tumor proliferation and angiogenesis in breast cancer model mice.
- Investigating the GCSF effects on assisted reproductive technology in patients with repeated implantation failure.

## 7-Co-advisor of Ph.D projects:

- Investigating seasonal and Physiological Variations of *Phlebotomus papatasi* Salivary Gland Antigens and their relation to Leishmania major infection in Central Iran.

## 8- Publications:

1. Agerberth B, Charo J, Werr J, Olsson B, **Idali F**, Lindbom L, Kiessling R, Jornvall H, Wigzell H, Gudmundsson GH. The human antimicrobial and chemotactic peptides LL-37 and alpha-defensins are expressed by specific lymphocyte and monocyte populations. *Blood*, 2000, 96(9):3086-93.
2. **Idali F**, Wikén M, Wahlström J, Mellstedt H, Eklund A, Rabbani H, Grunewald J. Reduced Th1 response in the lungs of HLA-DRB1\*0301 patients with pulmonary sarcoidosis. *Eur Respir J* 2006 Mar; 27(3):451-9.
3. **Idali F**, Wahlström J, Müller-Suur C, Eklund A, Grunewald J. Analysis of regulatory T cell associated forkhead box P3 expression in the lungs of patients with sarcoidosis. *Clin Exp Immunol* 2008 Apr; 152(1):127-37.
4. Dagnell C, Grunewald J, **Idali F**, Wiken M, Kemi C, Skold CM, et al. Increased levels of nerve growth factor in the airways of patients with sarcoidosis. *J Intern Med*. 2008 Nov; 264(5):463-71.
5. **Idali F**, Wahlström J, Khademi M, Olsson T, Eklund A, Grunewald J. Altered expression of T cell Immunoglobulin-Mucin (TIM) molecules in bronchoalveolar lavage CD4<sup>+</sup> T cells in sarcoidosis. *Respir Res*. 2009 May 29;10:42.
6. Wikén M, **Idali F**, Abo Al Hayja M, Grunewald J, Eklund A, Wahlström J. No evidence of altered alveolar macrophage polarization, but reduced expression of TLR2, in bronchoalveolar lavage cells in sarcoidosis. *Respir. Res*. 2010 Sep 2;11:121
7. Grunewald J, **Idali F**, Kockum I, Seddighzadeh M, Nisell M, Eklund A, Padyukov L. MHC class II transactivator gene polymorphism in sarcoidosis: specific associations with Löfgren's syndrome. *Tissue Antigens*. 2010 Aug;76(2):96-101

8. Zarei S, Soltanghoreae H, Mohammadzadeh A, Arefi S, Zarnani AH, **Idali F**, Tavangar B, Savadi Shirazi E, Moshref Behzad N, Jeddi-Tehrani M. Serum Leptin Levels in Women with Immunological Recurrent Abortion. *J. Reprod Infertil.* 2010; 11 (1): 47-52.
9. Jeddi-Tehrani M, Torabi R, Zarnani AH, Mohammadzadeh A, Arefi S, Zeraati H, Akhondi MM, Chamani-Tabriz L, **Idali F**, Emami S, Zarei S. Analysis of Plasminogen Activator Inhibitor-1, Integrin Beta3, Beta Fibrinogen, and Methylenetetrahydrofolate Reductase Polymorphisms in Iranian Women with Recurrent Pregnancy Loss. *Am J Reprod Immunol.* 2011 Aug;66(2):149-56.
10. **Farah Idali**, Said Zareii, Afsane Mohammad-Zadeh, Fakhreddin Reihany-Sabet, Zoreh Akbarzadeh-Pasha, Hamid-Reza Khorram-Khorshid, Amir-Hassan Zarnani, Mahmood Jeddi-Tehrani. Plasminogen Activator Inhibitor 1 and Methylenetetrahydrofolate Reductase Gene mutations in Iranian Women with Polycystic Ovary Syndrome. *Am J Reprod Immunol.* 2012 Nov;68(5):400-7.
11. Bahadori M, Zarei S, Zarnani AH, Zarei O, **Idali F**, Hadavi R, Jeddi-Tehrani M. IL-6, IL-10 and IL-17 Gene Polymorphisms in Iranian Women with Recurrent Miscarriage. *Iran J Immunol.* 2014 Jun;11(2):97-104
12. Marzieh Mahdavi-pour, **Farah Idali**, Saeed Zarei, Saeed Talebi<sup>4</sup>, Ramina Fatemi, Mahmood Jeddi-Tehrani, Somayeh Pahlavan, Farzad Rajaei. Investigation on estrogen receptor alpha gene polymorphisms in Iranian women with recurrent pregnancy loss. *Iran J Reprod Med* Vol. 12. No. 6. pp: 395-400, June 2014
13. S Zarei, M Bahadori, S Talebi, K Saliminejad, R Zargham, M Jeddi-Tehrani, F Idali. Relation between cytokine gene polymorphisms and concentration of autoantibodies and CD markers in Iranian recurrent miscarriage patients. *HUMAN REPRODUCTION* 2014, 29;7
14. Hejazi E, Nasrollahzadeh J, Fatemi R, Barzegar-Yar Mohamadi L, Saliminejad K, Amiri Z, Kimiagar M, Houshyari M, Tavakoli M, **Idali F**. Effects of Combined Soy Isoflavone Extract and Docetaxel Treatment on Murine 4T1 Breast Tumor Model. *Avicenna J Med Biotechnol.* 2015 Jan-Mar;7(1):16-21.
15. Naderi-Mahabadi F, Zarei S, Fatemi R, Kamali K, Pahlavanzadeh Z, Jeddi-Tehrani M, Kazemi T, **Idali F**. Association study of forkhead box P3 gene polymorphisms with unexplained recurrent spontaneous abortion. *J Reprod Immunol.* 2015 Aug;110:48-53. doi: 10.1016/j.jri.2015.04.001. Epub 2015 May 7.

16. Nasibeh Hosseini-Vasoukolaei , Ahmad-Reza Mahmoudi , Ali Khamesipour , Mohammad Reza Yaghoobi-Ershadi , Shaden Kamhawi , Jesus G. Valenzuela , Mohammad Hossein Arandian , Hossein Mirhendi , Shaghayegh Emami , Zahra Saeidi , **Farah Idali** , Reza Jafari , \*Mahmood Jeddi-Tehrani , Amir Ahmad Akhavan . Seasonal and Physiological Variations of *Phlebotomus papatasi* Salivary Gland Antigens in Central Iran .Journal of Arthropod-Borne Diseases 2016. 10(1):39.
17. Hosseini-Vasoukolaei N, **Idali F**, Khamesipour A, Yaghoobi-Ershadi MR, Kamhawi S, Valenzuela JG, Edalatkhah H, Arandian MH, Mirhendi H, Emami S, Jafari R, Saeidi Z, Jeddi-Tehrani M, Akhavan AA. Differential expression profiles of the salivary proteins SP15 and SP44 from *Phlebotomus papatasi*. Parasit Vectors. 2016 Jun 24;9(1):357. doi: 10.1186/s13071-016-1633-z.
18. Fatemi R, Mirzadegan E, Vahedian Z, Zarnani AH, Jeddi-Tehrani M, **Idali F**. Low 17 $\beta$ -estradiol Levels Are Better Inducers of Regulatory Conditioned T Cells In-Vitro. Iran J Immunol. 2017 Jun;14(2):159-171. doi: IJIV14i2A7.
19. Mahdavi-pour M, Zarei S, Fatemi R, Edalatkhah H, Heidari-Vala H, Jeddi-Tehrani M, **Idali F**. Polymorphisms in the Estrogen Receptor Beta Gene and the Risk of Unexplained Recurrent Spontaneous Abortion. Avicenna J Med Biotechnol. 2017 Jul-Sep;9(3):150-154
20. Ehsan Hejazi, Maryam Tavakoli, Mahmood Jeddi-Tehrani, Masoud Kimiagar, Jalal Hejazi, Mohammad Houshyari, Zohre Amiri, Hale Edalatkhah, Javad Nasrollahzadeh \* and **Farah Idali**. Investigating the antiangiogenic, anti-drug resistance and apoptotic effects of soy isoflavones extract alone or in combination with Docetaxel on murine 4T1 breast tumor model. Nutr Cancer. 2017 Sep 22:1-7.

## 9- Attendance in international conferences and presentations:

- **Idali F**, Rabbani H.A., Wahlström J., Mellstedt H., Eklund A., Grunewald J. Analysis of cytokine pattern in pulmonary sarcoidosis. Poster presentation; 8<sup>th</sup> World association of sarcoidosis and other granulomatous disorders (WASOG); Denver, Colorado, USA, 2005.
- Wikén M, **Idali F**, Grunewald J, Eklund A, Wahlström J. Cytokine Profiles in Bronchoalveolar Lavage Fluid from HLA-DR17 Positive and HLA-DR17 Negative Sarcoidosis Patients. Poster presentation: World

Association of Sarcoidosis and other Granulomatous Disorder (WASOG), Denver, Colorado, USA, 2005.

- **Idali F.**, Wahlström J., Eklund A., Grunewald J. T regulatory cells in bronchoalveolar lavage fluid of patients with pulmonary sarcoidosis and controls. Electronic poster and Oral presentation; European Respiratory Society 17<sup>th</sup> Annual Congress, Stockholm, Sweden; September 16-18 2007.
- A, Wikén M, **Idali F**, Grunewald J, Eklund Wahlström J. Decreased TLR2 gene expression in alveolar macrophages from Sarcoidosis patients with Löfgren's syndrome. Poster presentation: European Respiratory Society annual congress, Stockholm, Sweden, 2007.
- **Idali F.**, Wahlström J., Eklund A., Grunewald J. T regulatory cells in bronchoalveolar lavage fluid of patients with pulmonary sarcoidosis and controls. Poster presentation; 13<sup>th</sup> International Congress of Immunology, Rio De Janeiro, Brazil, 2007.
- Wikén M, **Idali F**, Grunewald J, Eklund A, Wahlström J. Decreased TLR2 gene expression in alveolar macrophages from Sarcoidosis patients with Löfgren's syndrome. Poster presentation: 13<sup>th</sup> International Congress of Immunology, Rio De Janeiro, Brazil, 2007.
- **Idali F**, Wahlstrom J, Eklund A, Grunewald J. Minskat uttryck vid sarkoidos av markörer associerade med regulatoriska T celler. Poster and Oral presentation; Läkarsamlingen 2007; Stockholm, Sweden; November 28-30 2007.
- Wikén M, **Idali F**, Grunewald J, Eklund A, Wahlström J. Minskat genuttryck av immunreceptorn TLR2 i alveolära makrofager från sarkoidos-patienter med Löfgrens syndrom. Oral presentation: The Annual General Meeting of the Swedish Society of Medicine, Älvsjö, Stockholm, Sweden, 2007.
- Ramina Fatemi, Zohreh Vahedian , Ebrahim Mirzadegan , Mahmood Jeddi-Tehrani, **Farah Idali**. The potential role of polyclonal activation with or without TGF- $\beta$ 1 in the generation of CD4<sup>+</sup>CD25<sup>+</sup>FOXP3<sup>+</sup> regulatory T cells: a therapeutic approach. Poster presentation; The 8th Biennial congress of Iranian society of Asthma and Allergy, Shiraz, Iran, November 2011.
- Ramina Fatemi, Zohreh Vahedian , Ebrahim Mirzadegan , Mahmood Jeddi-Tehrani, **Farah Idali**. De Novo generation of human CD4<sup>+</sup>CD25<sup>+</sup>FOXP3<sup>+</sup> regulatory T cells by 17 $\beta$ -oestradiol. Oral

Presentation; The 9th international congress of obstetrics and gynecology, Tehran, Iran, November 2011.

- **Farah Idali**, Saeed Zarei, Amir H. Zarnani, Mohammad R. Sadeghi, Hamid R. Khorram-Khorshid, Afsane Mohammad-Zadeh, Raheleh Torabi, Zoreh Akbarzadeh-Pasha, Mahmood Jeddi-Tehrani. Plasminogen activator inhibitor 1 and Methylenetetrahydrofolate Reductase gene mutations in Iranian RPL women with polycystic ovary syndrome. Poster presentation; The 9th international congress of obstetrics and gynecology, Tehran, Iran, November 2011.
- Fatemi, R; Vahedian , Z; Mirzadegan, E ; Zarnani, AH; Jeddi-Tehrani ,M; **Idali, F.** 17- $\beta$  Oestradiol Induces The Generation of Regulatory T Cells from Naïve CD4<sup>+</sup> CD25<sup>-</sup> T Cells. Oral Presentation; The 11<sup>th</sup> International Congress of Immunology and Allergy of Iran. Tehran, Iran. 26<sup>th</sup>-29<sup>th</sup> April 2012.
- Ramina Fatemi, Zohre Vahedian, Ebrahim Mirzadegan, Marzieh Mahdavi-pour, Amir Hassan Zarnani, Mahmood Jeddi Tehrani, **Farah Idali** \* Role of 17- $\beta$  oestradiol for induction of regulatory T cells and measurement of anti-inflammatory cytokine release . Oral Presentation; 5th Yazd International Congress and Student Award in reproductive(yazd) 2013
- Ramina Fatemi \*<sup>1</sup>, Zohre Vahedian <sup>2</sup>, Ebrahim Mirzadegan<sup>1</sup>, Mahdavi-pour Marzieh<sup>1</sup>, Amir Hassan Zarnani<sup>3</sup>, Mahmood Jeddi Tehrani <sup>2</sup>, **Farah Idali** \*\* Evaluation of cytokine release from invitro generated regulatory T cells by 17- $\beta$  oestradiol . Oral Presentation; 19th International Congress On Infertility & Reproduction of Iran. May 2013
- Marzieh Mahdavi-pour \*<sup>1,2</sup>, Saeed Zarei <sup>3</sup>, Ramina Fatemi <sup>2</sup>, Mahmood Jeddi Tehrani <sup>3</sup>, Rajaei Farzad<sup>1</sup>, **Farah Idali** \*\*<sup>2</sup>. Frequency of the -397C/T and -351A/G polymorphisms in estrogen receptor alpha gene (ESR1) in Iranian women with recurrent pregnancy loss. Poster Presentation; 19th International Congress On Infertility & Reproduction of Iran. May 2013
- Bahadori M, Zarei S, **Idali F**, Zarei O, Zarnani AH, Jeddi Tehrani M. Investigation on the association of cytokine gene polymorphisms with recurrent miscarriage. Poster Presentation; 19th International Congress On Infertility & Reproduction of Iran. May 2013



- Marzieh Mahdavi pour <sup>\*1</sup>, Saeed Zarei <sup>2</sup>, Ramina Fatemi <sup>1</sup>, Mahmood Jeddi Tehrani <sup>2</sup>, **Farah Idali** <sup>\*\*1</sup>. Progesterone receptor gene polymorphism and idiopathic recurrent pregnancy loss in a population of Iranian women. The 10<sup>th</sup> international congress on obstetrics and gynecology, Tehran, Iran, Sep 2013.
- Marzieh Mahdavi pour, Saeed Zarei, Ramina Fatemi, Mahmood Jeddi Tehrani, **Farah Idali**<sup>\*</sup>. Estrogen receptor beta gene polymorphisms and recurrent pregnancy loss: a case- control study in a population of Iranian women. Poster presentation; International Twin Congress, 14<sup>th</sup> Congress on Reproductive Biomedicine, Tehran, Iran (4-6, Sep ,2013)
- Ramina Fatemi, Zohre Vahedian, Ebrahim Mirzadegan, Marzieh Mahdavi pour, Amir Hassan Zarnani Mahmood Jeddi Tehrani, **Farah Idali**<sup>\*</sup>. Comparison Between the Effect of 17-betaestradiol at Preovulatory and Pregnancy Levels for In Vitro Generation of Regulatory T Cells. Poster presentation; International Twin Congress, 14<sup>th</sup> Congress on Reproductive Biomedicine Tehran, Iran (4-6, Sep ,2013)
- Rezaeena S, Fatemi R, Farzi M, Zarnani AH, Naderi MM, Jeddi Tehrani M, **Idali F**. The therapeutic efficiency of *invitro* generated regulatory T cells for prevention of abortion in abortion-prone mice. Oral Presentation; 12<sup>th</sup> International Congress of Immunology & Allergy of Iran, Tehran, Iran, April 29<sup>th</sup>-May 2<sup>nd</sup> 2014. Iranian. J .Immunol. Volume 11, Supplement 1, April-May 2014.
- Naderi F, Kazemi T, Fatemi R , Zarei S, Kamali K, Jeddi Tehrani M, **Idali F**. Association between polymorphisms of Foxp3 gene and unexplained recurrent spontaneous abortion in an Iranian population. Oral Presentation; 12<sup>th</sup> International Congress of Immunology & Allergy of Iran, Tehran, Iran, April 29<sup>th</sup>-May 2<sup>nd</sup> 2014.
- Fatemi R, Vahedian Z , Mirzadegan E, Mahdavi pour M, Zarnani AH, Jeddi-Tehrani M, **Idali F**. Concentration-dependent effect of estrogen on human Regulatory T cells induction. Oral Presentation; 12<sup>th</sup> International Congress of Immunology & Allergy of Iran, Tehran, Iran, April 29<sup>th</sup>-May 2<sup>nd</sup> 2014.
- **Idali F**, Naderi F, Kazemi T, Fatemi R, Zarei S, Kamali K, Jeddi Tehrani M. Polymorphisms in the FOXP3 gene show association with unexplained recurrent spontaneous abortion: a study from Iran. Poster

Presentation; 30th Annual Meeting of ESHRE – Munich, Germany, June 29<sup>th</sup> -July 2<sup>nd</sup> 2014 . HUMAN REPRODUCTION 29, 137-137

- Rezaeenia S \*, Fatemi R, Naderi MM, Farzi M, Zarnani AH, , Jeddi Tehrani M , **Idali F\*\***. Adoptive Transfer of In vitro and Pregnancy-Induced CD4<sup>+</sup>CD25<sup>+</sup> Regulatory T Cells Prevent Fetal Rejection in Abortion-Prone Mice. Oral Presentation; 20th Congress On Infertility & Reproduction 11-13 June 2014 Isfahan – Iran.
- S Zarei, M Bahadori, S Talebi, K Saliminejad, R Zargham, M Jeddi-Tehrani, **F Idali**. Relation between cytokine gene polymorphisms and concentration of autoantibodies and CD markers in Iranian recurrent miscarriage patients. Oral presentation; 30th Annual meeting of ESHRE. p.89, 29 June 2014-2 July 2014, Munich, Germany.
- Rezaeenia S \*, Jeddi Tehrani M , **Idali F\*\***. The generation of regulatory T cells from mouse splenic naïve T cells and investigating their immunotherapeutic potential in murine recurrent spontaneous abortion model. Oral Presentation; International congress on reproduction May 2015 Tehran-Iran.
- **Idali F\*\***, Rezaeenia S , Fatemi R, Naderi MM, Farzi M, Zarnani AH, ,Jeddi Tehrani M. In vitro generated CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells efficiently prevented fetal rejection in abortion-prone mice. Oral Presentation; 12th Conference of the European Society for Reproductive Immunology 21st –24th September 2015 Oxford-England. Journal of reproductive immunology 111(2015) 10-18.

## 10- Work experiences:

- Microbiology and Tumour biology Center (MTC), Karolinska Institutet, Stockholm, Sweden 1997-1998.
- National Center for Genetic Engineering and Biotechnology, Tehran, Iran 2001-2002.
- Clinical Virology Laboratory, Karolinska University Hospital (Huddinge), Stockholm, Sweden 2002-2003.
- Department of Immunology, Reproductive Biotechnology Research Center, Avicenna Research Institute, ACECR, Tehran, Iran since 2009- .

