

## Curriculum Vitae



### PERSONAL INFORMATION

**First Name: Ghasem**      **Last Name: Solgi**

**Birth Day: 21-Mar-1976**

**Nationality: Iranian**

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## EDUCATION

- **2008-2009:** Practical course and thesis completion, Transplantation Immunology, IKT, Ulm, Germany
  - **2004-2009:** Ph.D. in Medical Immunology, Tehran University of Medical Sciences, Tehran, Iran.  
*Thesis:* Effect of donor bone marrow cells infusion on microchimerism and allograft outcomes in kidney transplant patients, A Five-Year follow-up study
  - **2000-2002:** M.Sc. in Medical Immunology, Isfahan University of Medical Sciences, Isfahan, Iran  
*Thesis:* Comparison of serological and DNA-based methods for HLA typing in kidney allograft recipients.
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## WORK EXPERIENCE

- **September 2020 –present:** Head of Immunogenetics Lab, Immunology Department, Hamadan University of Medical Sciences, Hamadan, Iran.
- **September 2016-2020:** Deputy for Research Affairs for Medical School, Hamadan University of Medical Sciences, Hamadan, Iran.
- **October 2015-Dec 2019:** Head of Immunology Department, Hamadan University of Medical Sciences.
- **September 2012- Oct 2015:** Assistant professor in Immunology Department, Hamadan University of Medical Sciences, Hamadan, Iran.
- **December 2009- Sept 2012:** Assistant professor in Immunology Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.

## RESEARCH EXPERIENCES

- **HLA and Immunogenetics in Autoimmunity**
- **Transplantation Immunology**

### **Selected Projects:**

- Early assessment of anti-HLA antibodies in relation to kidney allograft outcomes.

- Analysis of allelic distributions of HLA class II alleles in T1D patients: A family study.
- Allelic and haplotypic analysis of HLA genes in terms of disease susceptibility/protection and therapeutic responses to biological treatment in MS patients
- The link between HLA shared epitope alleles and pattern of response to therapy in RA patients
- Relevance of HLA class II alleles and haplotypes with autoantibody profiles and clinical presentations in SLE patients.
- Disease severity and susceptibility in relation to HLA class I and class II alleles distributions in COVID-19 patients
- Survival analysis of kidney transplant patients.

#### **SOCIETIES MEMBERSHIP**

- Iranian Society of Immunology and Allergy (from 2006 to now)
- European Federation for Immunogenetics (from 2010 to now)

#### **PUBLICATIONS**

1. Shirizadeh A, Ebrahimpur M, Soltani S, **Solgi G**. Chemical contamination in the extracted DNA affects the results of HLA typing by the PCR-SSOP method. **Mol Biol Rep.** 2024 Nov 28;52(1):23. doi: 10.1007/s11033-024-10125-3. PMID: 39607457.
2. Shirizadeh A, Borzouei S, Razavi Z, Taherkhani A, Faradmali J, **Solgi G**. Determination of HLA class II risk alleles and prediction of self/non-self-epitopes contributing Hashimoto's thyroiditis in a group of Iranian patients. **Immunogenetics.** 2024 Apr 12. doi: 10.1007/s00251-024-01339-7. Epub ahead of print. PMID: 38607388.
3. Shirizadeh A, Razavi Z, Saeedi V, Faradmali J, Roshanaei G, Hajilooi M, Morahan G, **Solgi G**. Family-based association of HLA-DRB1 and DQB1 alleles and haplotypes

in a group of Iranian Type 1 diabetes children. **HLA**. **2024 Apr**;103(4):e15446. doi: 10.1111/tan.15446. PMID: 38575369.

4. Rezaeepoor M, Keramat F, Jourghasemi S, Rahmanpour M, Lipsa A, Hajilooi M, **Solgi G**. MicroRNA -21 expression as an auxiliary diagnostic biomarker of acute brucellosis. **Mol Biol Rep**. **2024 Feb 1**;51(1):264. doi: 10.1007/s11033-023-09193-8. PMID: 38302783.
5. Tahamoli-Roudsari A, Rahmani F, Afshar S, Hajilooi M, **Solgi G**. Expression patterns of T cells-specific long noncoding RNAs in systemic lupus erythematosus patients carrying HLA risk/nonrisk alleles. **Lupus**. **2023 Sep**;32(10):1188-1198. doi: 10.1177/09612033231196626.
6. Hajilooi M, Keramat F, Moazenian A, Rastegari-Pouyani M, **Solgi G**. The quantity and quality of anti-SARS-CoV-2 antibodies show contrariwise association with COVID-19 severity: lessons learned from IgG avidity. **Med Microbiol Immunol**. **2023 Jun**;212(3):203-220. doi: 10.1007/s00430-023-00763-y. Epub 2023 Apr 27. PMID: 37103583; PMCID: PMC10133916.
7. Tahamoli-Roudsari A, Tabatabaei R, Alvandpur N, Basiri Z, Behzad M, Rezaeepoor M, Abdolmaleki M, Fouladseresht H, Roshanaei G, Hajilooi M, **Solgi G**. Peripheral distributions of IL-4-producing CD4 + T cells and CD4 + CD25 + FoxP3 + T cells (Tregs) in rheumatoid arthritis patients with poor response to therapy are associated with HLA shared epitope alleles and ACPA status. **Immunol Res**. **2022 Aug**;70(4):481-492. doi: 10.1007/s12026-022-09281-0. Epub 2022 Apr 21. PMID: 35445929.
8. Basir HRG, Majzoobi MM, Ebrahimi S, Noroozbeygi M, Hashemi SH, Keramat F, Mamani M, Eini P, Alizadeh S, **Solgi G**, Di D. Susceptibility and Severity of COVID-19 Are Both Associated With Lower Overall Viral-Peptide Binding Repertoire of HLA Class I Molecules,

Especially in Younger People. **Front Immunol.** **2022 Jul** 7;13:891816. doi: 10.3389/fimmu.2022.891816. PMID: 35911710; PMCID: PMC9331187.

9. Ebrahimi S, Ghasemi-Basir HR, Majzooobi MM, Rasouli-Saravani A, Hajilooi M, **Solgi G**. HLA-DRB1\*04 may predict the severity of disease in a group of Iranian COVID-19 patients. **Hum Immunol.** **2021 Oct**;82(10):719-725. doi: 10.1016/j.humimm.2021.07.004. Epub 2021 Jul 13. PMID: 34294460; PMCID: PMC8275473.
10. Rasouli-Saravani A, Tahamoli-Roudsari A, Basiri Z, Babaei M, Fazaeli A, Roshanaei G, Hajilooi M, **Solgi G**. Relevance of autoantibody profile with HLA- DRB1 and -DQB1 alleles in a group of Iranian systemic lupus erythematosus patients. **Immunol Lett.** **2021 Sep**;237:11-16. doi: 10.1016/j.imlet.2021.06.004. Epub 2021 Jun 26. PMID: 34186156.
11. Rezalotfi A, **Solgi G**, Ebrahimi M. Gastrospheres as a Model of Gastric Cancer Stem Cells Skew Th17/Treg Balance toward Antitumor Th17 Cells. **J Immunol Res.** **2020 Dec** 23;2020:6261814. doi: 10.1155/2020/6261814. PMID: 33426090; PMCID: PMC7775146.
12. Gheitasi R, Keramat F, **Solgi G**, Hajilooi M. Investigation of Linc-MAF-4 expression as an effective marker in brucellosis. **Mol Immunol.** **2020 Jul**;123:60-63. doi: 10.1016/j.molimm.2020.04.022. Epub 2020 May 14. PMID: 32417631.
13. Rezaeepoor M, Pourjafar M, Tahamoli-Roudsari A, Basiri Z, Hajilooi M, Solgi G. Altered expression of microRNAs may predict therapeutic response in rheumatoid arthritis patients. **Int Immunopharmacol.** **2020 Jun**;83:106404. doi: 10.1016/j.intimp.2020.106404. Epub 2020 Mar 18. PMID: 32197230.
14. Alvandpur N, Tabatabaei R, Tahamoli-Roudsari A, Basiri Z, Behzad M, Rezaeepoor M, Roshanaei G, Hajilooi M, Solgi G. Circulating IFN- $\gamma$  producing CD4<sup>+</sup> T cells and IL-17A producing CD4<sup>+</sup> T cells, HLA-shared epitope and ACPA may characterize the clinical response to therapy in rheumatoid arthritis patients. **Hum Immunol.** **2020 May**;81(5):228-236. doi: 10.1016/j.humimm.2020.02.008. Epub 2020 Feb 24. PMID: 32107036.

15. Ahamadi-Fesharaki R, Fateh A, Vaziri F, Solgi G, Siadat SD, Mahboudi F, Rahimi-Jamnani F. Single-Chain Variable Fragment-Based Bispecific Antibodies: Hitting Two Targets with One Sophisticated Arrow. **Mol Ther Oncolytics**. 2019 Mar 23;14:38-56. doi: 10.1016/j.omto.2019.02.004. PMID: 31011631; PMCID: PMC6463744.
16. Rezalotfi A, Ahmadian E, Aazami H, Solgi G, Ebrahimi M. Gastric Cancer Stem Cells Effect on Th17/Treg Balance; A Bench to Beside Perspective. **Front Oncol**. 2019 Apr 5;9:226. doi: 10.3389/fonc.2019.00226. PMID: 31024835; PMCID: PMC6464032.
17. Hosseinzadeh M, Ahmadpoor P, Yekaninejad MS, Pourrezaghali F, Foroughi F, Ghorbanpour M, Barabadi M, Shahbaz SK, **Solgi G**, Amirzargar A. Expression patterns of Toll like receptor (TLR)-2, TLR-4 and myeloid differentiation primary response gene 88 (MYD88) in renal transplant patients developing allograft dysfunction; a cohort study. **Transpl Immunol**. 2018 Jun;48:26-31. doi: 10.1016/j.trim.2018.02.005. Epub 2018 Feb 13. PMID: 29452169.
18. Mazdeh M, Moradi N, Khoshroo E, Shayesteh Z, Taheri M, Sayad A, Omrani MD, Hajilooi M, Roshanaei G, Solgi G. Down-regulation of TYK2, CBLB and LMP7 genes expression in relapsing-remitting multiple sclerosis patients treated with interferon-beta. **J Neuroimmunol**. 2018 Jan 15;314:24-29. doi: 10.1016/j.jneuroim.2017.11.004. Epub 2017 Nov 8. PMID: 29157944.
19. Mohammadi F, **Solgi G**, Tajik M, Ahmadpoor P, Nikoeinejad H, Einollahi B, Nazari B, Lessan-Pezeshki M, Amirzargar A. Enzyme-Linked Immunosorbent Spot (ELISpot) monitoring of cytokine-producing cells for the prediction of acute rejection in renal transplant patients. **Eur Cytokine Netw**. 2017 Sep 1;28(3):93-101. doi: 10.1684/ecn.2017.0397. PMID: 29187340.
20. Amirzargar MA, Yaghubi F, Hosseinipناه M, Jafari M, Pourjafar M, Rezaeepoor M, Rezaei H, Roshanaei G, Hajilooi M, **Solgi G**. Anti-inflammatory Effects of Valproic Acid in a Rat Model of Renal Ischemia/Reperfusion Injury: Alteration in Cytokine Profile.

**Inflammation.** 2017 Aug;40(4):1310-1318. doi: 10.1007/s10753-017-0574-9. PMID: 28478517.

21. Marzban A, Kiani J, Hajilooi M, Rezaei H, Kahramfar Z, Solgi G. HLA class II alleles and risk for peripheral neuropathy in type 2 diabetes patients. **Neural Regen Res.** 2016 Nov;11(11):1839-1844. doi: 10.4103/1673-5374.194756. PMID: 28123430; PMCID: PMC5204242.
22. Mazdeh M, Taheri M, Sayad A, Bahram S, Omrani MD, Movafagh A, Inoko H, Akbari MT, Noroozi R, Hajilooi M, Solgi G. HLA genes as modifiers of response to IFN- $\beta$ -1a therapy in relapsing-remitting multiple sclerosis. **Pharmacogenomics.** 2016 Apr;17(5):489-98. doi: 10.2217/pgs.16.2. Epub 2016 Mar 29. PMID: 27020477.
23. Kiani J, Hajilooi M, Furst D, Rezaei H, Shahryari-Hesami S, Kowsarifard S, Zamani A, **Solgi G.** HLA class II susceptibility pattern for type 1 diabetes (T1D) in an Iranian population. **Int J Immunogenet.** 2015 Aug;42(4):279-86. doi: 10.1111/iji.12216. Epub 2015 Jun 18. PMID: 26088816.
24. Amirzargar MA, Amirzargar A, Basiri A, Hajilooi M, Roshanaei G, Rajabi G, Mohammadiazar S, **Solgi G.** Early post-transplant immune monitoring can predict long-term kidney graft survival: soluble CD30 levels, anti-HLA antibodies and IgA-anti-Fab autoantibodies. **Hum Immunol.** 2014 Jan;75(1):47-58. doi: 10.1016/j.humimm.2013.09.010. Epub 2013 Sep 17. PMID: 24055694.
25. **Solgi G,** Gadi V, Paul B, Mytilineos J, Pourmand G, Mehrsai A, Ranjbar M, Mohammadnia M, Nikbin B, Amirzargar AA. Five-year clinical effects of donor bone marrow cells infusions in kidney allograft recipients: improved graft function and higher graft survival. **Chimerism.** 2013 Jul-Sep;4(3):87-94. doi: 10.4161/chim.24719. Epub 2013 May 31. PMID: 23639966; PMCID: PMC3782550.
26. Ranjbar M, **Solgi G,** Mohammadnia M, Nikbin B, Pourmand G, Ansaripour B, Amirzargar A. Regulatory T-cell subset analysis and profile of interleukin (IL)-10, IL-17 and interferon-

gamma cytokine-producing cells in kidney allograft recipients with donor cells infusion.  
**Clin Exp Nephrol.** 2012 Aug;16(4):636-46. doi: 10.1007/s10157-012-0591-9. PMID:  
22314659.

Link for more publications: <https://pubmed.ncbi.nlm.nih.gov/?term=solgi+g&sort=pubdate>

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## PRESENTATIONS

### ORAL AND POSTER

**Title:** Susceptibility and severity of COVID-19 both associated with lower overall viral peptide binding repertoire of HLA class I but not class II molecules, especially in younger people

**Author(s):** Di, D; Solgi, G

**Source:** HLA Meeting Abstract: P182 **Volume:** 99 **Issue:** 5 **Special Issue:** SI **Pages:** 533-533 **Published:** MAY 2022

**Accession Number:** WOS:000788004300256

**Title:** Contribution of HLA-A, -B, -C and-DRB1 alleles and haplotypes to susceptibility and severity of COVID-19 in a group of Iranians

**Author(s):** Ghasemi-Basir, HR; Majzoobi, MM; Ebrahimi, S; Noroozbeygi, M; Hashemi, SH ; Keramat, F; Mamani, M; Eini, P; Solgi, G; Di, D.

**Source:** HLA Meeting Abstract: P165 **Volume:** 99 **Issue:** 5 **Special Issue:** SI **Pages:** 525-525 **Published:** MAY 2022

**Accession Number:** WOS:000788004300239

**Title:** CLOSE LINK WITH HLA SHARED EPITOPE ALLELES AND ACPA STATUS AND PERIPHERAL DISTRIBUTION OF CD4+CD25+FOXP3+T CELLS (TREG) IN RHEUMATOID ARTHRITIS PATIENTS

**Author(s):** Solgi, G., Tahamoli-Roudsari, A., Tabatabaei, R., Alvandpur, N; Basiri, Z., Behzad, M., Hajilooi, M

**Source:** HLA Meeting  
307 **Published:** APR 2021

**Abstract:** O77 **Volume:** 97 **Issue:** 4 **Pages:** 307-

**Accession Number:** WOS:000628818700029

**Title:** HLA-DRB1\*04 ALLELE GROUP AND DISEASE SEVERITY IN COVID-19 PATIENTS

**Author(s):** Solgi, G ; Ebrahimi, S; Reza, HRH; Majzoobi, MM; Rasouli-Saravani, A; Hajilooi, M

**Source:** HLA Meeting **Abstract:** O87 **Volume:** 97 **Issue:** 4 **Pages:** 312-313 **Published:** APR 2021

**Accession Number:** WOS:000628818700039

**Title:** Gastro-sphere effects on Th17/Treg diagram: Help or hindrance?

**Author(s):** RezaLotfi, A; Solgi, G ; Ebrahimi, M

**Source:** ANNALS OF ONCOLOGY Meeting **Abstract:** 90P **Volume:** 31 **Pages:** S1453-S1453 **DOI:** 10.1016/j.annonc.2020.10.578 **Supplement:** 7 **Published:** DEC 2020

**Accession Number:** WOS:000600992500090

**Conference Title:** ESMO Immuno-Oncology Virtual Congress

**Conference Date:** DEC 09-12, 2020

**Title:** DECAY IN LINKAGE DISEQUILIBRIUM OF HLA HAPLOTYPE-DEFINING SNPS IN IRANIAN TYPE 1 DIABETES SUBJECTS

**Author(s):** Solgi, G ; Rezaei, H; Samadi, M; Jamehbozorg, S ; Taheri, M; Hajilooi, M; Kiani; Morahan, G.

**Source:** HLA Meeting **Abstract:** P71 **Volume:** 93 **Issue:** 5 **Special Issue:** SI **Pages:** 323-324 **Published:** MAY 2019

**Accession Number:** WOS:000464517600147

**Title:** Gastric cancer stem-like cells, the balance operator of Th17 and Treg

**Author(s):** RezaLotfi, A; Ebrahimi, M, Solgi, G.

**Source:** ANNALS OF ONCOLOGY Meeting

**Abstract:** 92P **Volume:** 28 **Supplement:** 11 **Published:** DEC 2017

**Accession Number:** WOS:000424778900082

**Conference Title:** ESMO Immuno Oncology Congress

**Conference Date:** DEC 07-10, 2017

**Title:** FIVE-YEAR CLINICAL EFFECTS OF DONOR BONE MARROW CELLS INFUSIONS IN KIDNEY ALLOGRAFT RECIPIENTS

**Author(s):** Solgi, G; Gadi, V; Pourmand, G; Mehraei, A; Ranjbar, M; Mohammadnia, M; Nikbin, B; Amirzargar, AA

**Source:** JOURNAL OF UROLOGY Meeting **Abstract:** MP41-03 **Volume:** 197 **Issue:** 4 **Pages:** E532-E532 **DOI:** 10.1016/j.juro.2017.02.1271 **Supplement:** S **Published:** APR 2017  
**Accession Number:** WOS:000398276602151

**Conference Title:** Annual Meeting of the American-Urological-Association (AUA)

**Title:** HLA ALLELES MAY PREDICT RESPONSE TO IFN-B-1A THERAPY IN RELAPSING-REMITTING MULTIPLE SCLEROSIS

**Author(s):** Solgi, G; Taheri, M; Sayad, A; Omrani, MD; Movafagh, A; Mazdeh, M; Akbari, MT; Norouzi, R; Hajilooi, M

**Source:** HLA Meeting **Abstract:** P191 **Volume:** 87 **Issue:** 4 **Pages:** 310-310 **Published:** APR 2016

**Accession Number:** WOS:000383951500273

**Title:** CORRELATION BETWEEN HLA CLASS II ALLELES AND PERIPHERAL NEUROPATHY IN TYPE 2 DIABETES PATIENTS IN IRAN

**Author(s):** Solgi, G; Kiani, J; Kahramfar, Z ; Marzban, A; Rezaei, H ; Hajilooi, M

**Source:** TISSUE ANTIGENS Meeting **Abstract:** P02 **Volume:** 85 **Issue:** 5 **Pages:** 330-330 **Published:** MAY 2015

**Accession Number:** WOS:000352907000079

**Conference Title:** European-Federation-for-Immunogenetics Conference

**Conference Date:** APR 26-29, 2015

**Title:** ASSOCIATION BETWEEN HLA-DRB1/DQB1 ALLELES AND HAPLOTYPES AND PEMPHIGUS VULGARIS IN HAMADAN, WEST-IRAN

**Author(s):** Solgi, G ; Motemayel, FA; Rezaei, H; Mandian, M ; Hajilooi, M

**Source:** TISSUE ANTIGENS Meeting **Abstract:** P19 **Volume:** 85 **Issue:** 5 **Pages:** 336-337 **Published:** MAY 2015

**Accession Number:** WOS:000352907000096

**Conference Title:** European-Federation-for-Immunogenetics Conference

**Conference Date:** APR 26-29, 2015

**Title:** ASSOCIATION OF HLA-DRB1 AND DQB1 ALLELES AND HAPLOTYPES WITH TYPE ONE DIABETES IN HAMADAN, WEST-IRAN

**Author(s):** Solgi, G; Kiani, J ; Fuerst, D; Shahryari, SH ; Rezaei, H; Kosari, S; Zamani, A; Hajilooi, M

**Source:** TISSUE ANTIGENS **Volume:** 84 **Issue:** 1 **Pages:** 138-139 **Published:** JUL 2014

**Accession Number:** WOS:000337546000335

**Conference Title:** 28th EFI European Immunogenetics and Histocompatibility Conference

**Conference Date:** JUN 25-28, 2014

**Title:** THREE YEARS FOLLOW-UP OF KIDNEY ALLOGRAFT RECIPIENTS WITH CONCURRENT DONOR CELLS INFUSION

**Author(s):** Solgi, G; Mytilneos, J; Gadi, V; Paul, B; Pourmand, G; Ranjbar, M ; Nikbin, B; Amirzargar, A

**Source:** TISSUE ANTIGENS **Volume:** 79 **Issue:** 6 **Pages:** 417-418 **Published:** JUN 2012

**Accession Number:** WOS:000303499800037

**Conference Title:** Joint 16th International HLA and Immunogenetics Workshop/26th European Federation for Immunogenetics Conference/23rd British-Society-of-Histocompatibility-and-Immunogenetics Conference

**Conference Date:** MAY 31-JUN 03, 2012

Link for more conference papers: <https://www2.wosgs.ir/wos/woscc/summary/07a9ced8-ee6c-4260-937a-ea9628d3d5ce-4cb51134/relevance/1>

## **EDITORIAL EXPERIENCE**

➤ Reviewed manuscripts for:

- Diagnostics
  - Current Diabetes review
  - Human Immunology
  - Journal of Neurological Sciences
  - Antiviral therapy
  - Immunobiology
  - Journal of Clinical Medicine
  - Molecular Biology Reports
  - Scientific reports
  - Gene Reports
  - Iranian Journal of Immunology
  - Iranian Journal of Allergy, Asthma, and Immunology
  - Viral Immunology
  - Journal of Medical Virology
  - Immunological Investigations
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## **Selected SUPERVISORY EXPERIENCE**

- **2023: Ata Shirizadeh, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2022: Marzieh Abbasi, PhD Student in Biochemistry**, Hamadan University of Medical Sciences, Hamdan, Iran.
  - **2021 Samaneh Ebrahimi, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2020 Ashkan Rasuli-Saravani, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2020 Reza Gheitasi, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2019 Alaleh Rezalotfi, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2018 Faramarz Yaqubi, Urology Resident**, Hamadan University of Medical Sciences.
  - **2017 Yazan Heshmati. Neurology Resident**, Hamadan University of Medical Sciences,
  - **2016 Adel Mohamad Alipur, PhD student in Biochemistry**, Hamadan University of Medical Sciences.
  - **2015 Elnaz Khoshru, MSc Student in Immunology**, Hamadan University of Medical Sciences,
  - **2014 Zeynab Bayat, Dentistry Resident**, Hamadan University of Medical Sciences,
  - ....
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## References

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