

## Curriculum Vitae



**Navid Dashti, Ph.D.**

Assistant Professor of Medical Immunology

**Place of Birth:** Takab, West Azerbaijan province, Iran

**Nationality:** Iranian

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### Education:

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**2018-2024: Ph.D.,** Medical immunology, Department of Immunology, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

**Thesis:** Production of recombinant fusion protein containing receptor-binding domain (RBD) of SARS-CoV-2 virus with human-Fc (RBD-Fc) and investigation of its immunogenicity and toxicity as a candidate vaccine against SARS-CoV-2. (Supervisors: Dr. Fazel Shokri, Dr. Forough Golsaz-Shirazi)

**2014-2017: M.Sc.,** Medical Immunology, Department of Immunology, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

**Thesis:** Investigation of methylation and expression of ITGB2 (CD18) and SELL (CD62L) genes in peripheral blood mononuclear cells of patients with Systemic Sclerosis. (Supervisors: Dr. Mahdi Mahmoudi, Dr. Mohammad Vojgani)

**2010-2014: B.Sc.,** Medical laboratory sciences, Faculty of Paramedicine, Zanjan University of Medical Sciences, Zanjan, Iran.

## Skills & Training:

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### • Cell-based methods:

- Cell culture (adherent & suspension)
- Cell transfection (adherent cell line, CHO-K1 & suspension cell lines, CHO-S and DG-44)
- Single cell clone isolation
- Stable clone generation (DHFR/MTX and GS/MSX systems)
- Gene amplification technology with methotrexate (MTX)
- Splenocyte isolation
- Cell cytotoxicity assay

### • Viral neutralization methods:

- Surrogate virus neutralization test (sVNT)
- Pseudotype virus neutralization test (pVNT)
- Conventional virus neutralization test (cVNT)

### • Molecular methods:

- RNA extraction
  - cDNA synthesis
  - DNA extraction
  - Primer design for Conventional PCR, Real-time PCR, LAMP-PCR and nested-PCR
  - Conventional PCR
  - Real-time PCR
  - nested-PCR
  - Gel electrophoresis
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- Fluorescence microscopy
  - ELISA assay (Direct, Indirect, Sandwich and Competitive ELISA)
  - SDS-PAGE
  - Western blot
  - Flow cytometry
  - Recombinant protein purification by affinity chromatography
  - Laboratory animals research experiments (handling, injection, blood collection and dissection of mouse and rabbit)

- **Software Skills:**

- SnapGene
- GraphPad prism
- SPSS
- Endnote
- Microsoft office

## **Article Publications:**

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1. Maghsood F, **Dashti N**, Bahadori T, Golsaz-Shirazi F, Moog C, Amiri MM, Shokri F. Comparative assessment of four virus neutralization assays for detection of SARS-CoV-2 neutralizing antibodies. *Analytical biochemistry*, 2025 (DOI: 10.1016/j.ab.2025.115860).
2. **Navid Dashti**, Forough Golsaz-Shirazi, Haleh Soltanghoraee, Amir-Hassan Zarnani, Mehdi Mohammadi, Danyal Imani, Mahmood Jeddi-Tehrani, Mohammad Mehdi Amiri, and Fazel Shokri. Preclinical assessment of a recombinant RBD-Fc fusion protein as SARS-CoV-2 candidate vaccine. *European Journal of Microbiology and Immunology*, 2024 (DOI: 10.1556/1886.2024.00045).
3. **Navid Dashti**, Forough Golsaz-Shirazi, Mahmood Jeddi-Tehrani, Amir-Hassan Zarnani, Mohammad Mehdi Amiri, Fazel Shokri, Comparative immunogenicity and neutralization potency of four approved COVID-19 vaccines in BALB/c mice. *Iranian Journal of Immunology*, 2024 (DOI: 10.22034/iji.2024.101060.2728).
4. Danyal Imani, **Navid Dashti**, Arash Parvari, Sajad Shafiekhani, Fatemeh Alebrahim, Bahman Razi, Masoud Hassanzadeh Makoui, Morteza Motallebnezhad, Saeed Aslani, Mansur Aliyu, Interleukin-10 Gene Promoter Polymorphisms and Susceptibility to Asthma: Systematic Review and Metaanalysis. *Biochemical Genetics*, 2021 (DOI: 10.1007/s10528-021-10056-9).
5. Sahar Anaraki Mohammadi, Reza Mansouri, Abbas Shahi, Massoumeh Akhlaghi, **Navid Dashti**, Saeed Aslani, Mehrdad Mansouri, Shiva Poursani, Mahdi Mahmoudi, IL27 gene single nucleotide polymorphisms confer susceptibility to rheumatoid arthritis in Iranian population. *Meta Gene*, 2018 (DOI: 10.1016/j.mgene.2018.09.002).
6. Ramazan Rezaei, Saeed Aslani, **Navid Dashti**, Ahmadreza Jamshidi, Farhad Gharibdoost, Mahdi Mahmoudi, Genetic implications in the pathogenesis of

systemic sclerosis. International Journal of Rheumatic Diseases, 2018 (DOI: 10.1111/1756-185X.13344).

7. **Navid Dashti**, Mahdi Mahmoudi, Farhad Gharibdoost, Hoda Kavosi, Ramazan Rezaei, Vahideh Imeni, Ahmadreza Jamshidi, Saeed Aslani, Shayan Mostafaei & Mohammad Vodjgani, Evaluation of ITGB2 (CD18) and SELL (CD62L) genes expression and methylation of ITGB2 promoter region in patients with systemic sclerosis. Rheumatology International, 2018. 38: p. 489-498 (DOI: 10.1007/s00296-017-3915-y).
8. **Navid Dashti**, Mahdi Mahmoudi, Saeed Aslani, Ahmadreza Jamshidi, HLA-B\* 27 subtypes and their implications in the pathogenesis of ankylosing spondylitis. Gene, 2018 (DOI: 10.1007/s00296-017-3915-y).
9. Ramazan Rezaei, Mahdi Mahmoudi, Farhad Gharibdoost, Hoda Kavosi, **Navid Dashti**, Vahideh Imeni, Ahmadreza Jamshidi, Saeed Aslani, Shayan Mostafaei, Mohammad Vodjgani, IRF-7 gene expression profile and methylation of its promoter region in patients with systemic sclerosis. International journal of rheumatic diseases, 2017 (DOI: 10.1111/1756-185X.13175).

#### **Book Publication:**

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- Translation of book into Farsi. Part 6 (Immunology and Immunopathology) of Henry's Clinical Diagnosis and Management by Laboratory Methods, 23<sup>rd</sup> edition.

#### **Conferences participation:**

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1. 16th International Congress of Immunology & Allergy, 27-29 April 2023, Tehran, Iran. **Oral presentation** entitled: Preclinical assessment of a recombinant RBDfC fusion protein as SARS-CoV-2 candidate vaccine [**Selected as one of the best oral presentations at the ICIA2023 conference**].
2. 16th International Congress of Immunology & Allergy, 27-29 April 2023, Tehran, Iran. **Oral presentation** entitled: Comparative immunogenicity of four approved COVID-19 vaccines in BALB/c mice.
3. 14th International Congress of Immunology & Allergy, 26-28 April 2018, Tehran, Iran. **Oral presentation** entitled: The effect of DNA methylation on expression of adhesion molecules in peripheral blood mononuclear cells of patients with limited and diffuse scleroderma.
4. 10th International Congress of Laboratory and Clinic, 31 January- 2 February 2018, Tehran, Iran. **Oral presentation** entitled: Investigation of CD18 gene

expression profile and methylation of its promoter region in Systemic Sclerosis disease.