

In the Name of The Most Beautiful

Curriculum Vitae

# Newsha Molavi

Research Assistance, Immunodeficiency Diseases Research Center,

Isfahan University of Medical Sciences, Isfahan, Iran

## CONTACT & PROFILES

---

Email: [newmolavi@gmail.com](mailto:newmolavi@gmail.com)

Call: +98(913)797-8501

ORCID: 0000-0002-7892-8576

LinkedIn: [Newsha Molavi](#)

DOB: 05/07/1993

Google scholar: [Newsha Molavi](#)



## Educational Background

---

### M.Sc., Human Genetics

(2016-2020)

School of Medicine, Isfahan University of Medical Sciences (MUI), Isfahan, Iran

- **Thesis:** Genetics and Bioinformatics Investigation of The *CYP21A2* Gene Mutations among Patients with Congenital Adrenal Hyperplasia Referred to Imam Hossein Hospital
- **Total CGPA:** 3.93/4 (17.55/20 in Iranian Scale)

### B.Sc., Molecular and Cellular Biology – Genetics

(2011-2015)

Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran

- **Total CGPA:** 3.82/4 (17.39/20 in Iranian Scale)



## Publications

---

- 1- Aghaei S, Parvizpour S, Farrokhi E, **Molavi N**, Hoseinzadeh M, Tabatabaiefar MA. Characterization of a novel androgen receptor gene variant identified in an Iranian family with complete androgen insensitivity syndrome (CAIS): a molecular dynamics simulation study. J Biomol Struct Dyn. 2022 Nov 21;0(0):1–15.  
**DOI:** <https://doi.org/10.1080/07391102.2022.2148125>
- 2- Abbasi B, **Molavi N**, Tavalae M, Abbasi H, Nasr-Esfahani MH. Alpha-lipoic acid improves sperm motility in infertile men after varicocele: a triple-blind randomized controlled trial. Reprod Biomed Online. 2020 Dec 1;41(6):1084–91.  
**DOI:** <https://doi.org/10.1016/j.rbmo.2020.08.013>

- 3- Hassanzadeh S, Sadeghi S, Jafari M, Najafi S, **Molavi N**, Sherkat R. Ciliary and immune dysfunctions and their genetic background in patients with non-cystic fibrosis bronchiectasis in Central Iran. *Ir J Med Sci* 1971. 2022 Apr 7  
**DOI:** <https://doi.org/10.1007/s11845-022-02994-z>
- 4- Shakhoseini M, **Molavi N**, Tabatabaiefar MA, Sehhati M. Implementation and Optimization of Annotation and Interpretation Step of Next-Generation Sequencing Data for Non-Syndromic Autosomal Recessive Hearing Loss. *J Health Biomed Inform.* 2021 Mar 10;7(4):435–44.
- 5- Hoseinzadeh M, **Molavi N**, Norouzi M, Aghaei S, Zeinalian M, Hashemipour M, et al. A Novel Homozygous Pathogenic Variant in *CYP11B1* in a Female Iranian Patient with 11B Hydroxylase Deficiency. *Lab Med.* 2023 Jul 1;54(4):439–46.  
**DOI:** <https://doi.org/10.1093/labmed/lmac141>
- 6- Aghaei S, Farrokhi E, Saffari-Chaleshtori J, Hoseinzadeh M, **Molavi N**, Hashemipour M, et al. New molecular insights into the A218V variant impact on the steroidogenic acute regulatory protein (STAR) associated with 46, XY disorders of sexual development. *Mol Genet Genomics.* 2023 May;298(3):693–708.  
**DOI:** <https://doi.org/10.1007/s00438-023-02006-4>
- 7- Khoshnevisan R, Hassanzadeh Sh, Klein Ch, Rohlf M, Grimbacher B, Khoshnevisan A, Zamanifar A, **Molavi N**, Jafari M; Behnam M, Sherkat R. Predominant Antibody Deficiency and Absence of B-cell in a Cohort Study of Iranian Patients with Inborn Error of Immunity between 1976 and 2019 (Submitted).
- 8- **Molavi N**, Hoseinzadeh M, Aghaei Sh, KhanAhmad H, Hashemipour M, Tabatabaiefar MA. A novel homozygous frameshift mutation in the *CYP21A2* gene leads to classic salt-wasting congenital adrenal hyperplasia in Iran. (Under Review)



## Professional Experience

---

### Research Assistant

(2021-present)

- Acquired Immunodeficiency Research Center, Isfahan University of Medical Sciences, Isfahan, Iran

### Teaching Assistant for ‘Practical Methods of Molecular Genetics’

(2021- 2022)

- Presented by Dr. Mohammad Amin Tabatabaiefar
- Department of Genetics and Molecular Biology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran

### Instructor for ‘Next-Generation-Sequencing data analysis workshop’

(2022)

- Isfahan University of Medical Sciences, Isfahan, Iran

## Research Assistant

(2018-2019)

- Department of Animal Biotechnology, Reproductive Biomedicine Research Center, Royan Institute for Biotechnology, ACECR, Isfahan, Iran



## Technical Skills

---

### Laboratory skills:

- Autozygosity mapping with STR markers
- General Molecular biology techniques
- Karyotyping
- Fundamentals of cell culture
- Laboratory animal handling
- SDS page electrophoresis and western-blotting
- Basics of gene editing tools

### Bioinformatics Skills:

- Primer designing software: Oligo 7, AlleleID, Gene-runner
- Interpretation of Sanger and Next-Generation Sequencing data

**Scripting Language:** UNIX in big data analysis

## Language Proficiency

---

English: Fluent (TOEFL: total score 85)

Persian: Native

## Research Interests

---

- Bioinformatics
- Medical Genetics
- Molecular Genetics
- Mechanisms of human diseases
- Molecular Diagnostics

---

All Degrees and Certificates are available on request

---

Update on Nov, 2023.