

Joulia Alizadeh-Rahrovi

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Education

- 2013** M. Sc. in Physical Chemistry
University of Tehran, Tehran, Iran
- 2009** B. Sc. in Applied Chemistry
Azad University, Shahr-e-Ray Branch, Tehran, Iran
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M. Sc. Thesis

Title: Molecular Dynamics Simulation of Native and Glycated forms of Myoglobin and Study the Glycation Reaction of Some Amino Acids by DFT Method. (G.P.A of 19.75/20, accepted with “Excellent” grade.)

Supervisors:

Dr. Alireza Shayesteh (Associate professor of University of Tehran)

Prof. Dr. Azadeh Ebrahim-Habibi (Professor of Tehran University of Medical Sciences).

Research and Teaching Experiences

- 2013-up to now**
- **Research assistant** in the Modeling and Simulating in Medical Sciences (MSMS) Group, Endocrinology and Metabolism Research Institute (EMRI), Tehran University of Medical Sciences (TUMS), Tehran, Iran.
- 2018, November 15th**
- Teaching** the session of “Introduction to Principles of Molecular Dynamics Simulation” (8 hrs.) in the workshop entitled: “Introduction to Principles of Molecular Modeling of Proteins”, Endocrinology and Metabolism Research Institute (EMRI), Tehran University of Medical Sciences (TUMS), Tehran, Iran.
- 2018, February 15th**
- Teaching** the session of “Introduction to Principles of Molecular Dynamics Simulation” (4 hrs.) in the workshop entitled: “Introduction to Principles of Molecular Modeling of Proteins”, Endocrinology and Metabolism Research Institute (EMRI), Tehran University of Medical Sciences (TUMS), Tehran, Iran.
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Publications

- Articles**
- Structural Stability of Myoglobin and Glycomyoglobin: A comparative Molecular Dynamics Simulation Study, *J. Alizadeh-Rahrovi, A. Shayesteh, A. Ebrahim-Habibi*, Journal of Biological Physics, 2015, 41(4): 349-366.,doi: 10.1007/s10867-015-9383-2.
- Abstracts**
- Human Apo-myoglobin Structural Stability in The Presence of Ligands: A Molecular Dynamics Study, *J. Alizadeh-Rahrovi, A. Ebrahim-Habibi*, 30th Molecular Modeling Workshop, Erlangen, April 4-6, Germany, 2016.
 - Search for Beta-sheet Formation: Using Unfolding Simulations to Observe Initial

Amyloid Structures, A. Ebrahim-Habibi, M. Chinisaz, J. Alizadeh-Rahrovi M. Ghobeh, T. Khaghani-Milani, Models for Protein Dynamics 1976-2016 Workshop, CECAM-HQ-EPFL, Lausanne, Switzerland, Feb 15-18, 2016.

- The Effect of Ligands on The Unfolding of Human Apo-myoglobin: A Molecular Dynamics Study, J. Alizadeh-Rahrovi, A. Ebrahim-Habibi, 18th Iranian Physical Chemistry Conference, Kish Island, Iran, 2016.
- Molecular Dynamics Simulation Study on the Initial Stages of Amyloid Formation in Myoglobin and Search for Anti-Amyloid Compounds, J. Alizadeh-Rahrovi, A. Ebrahim-Habibi, the National Conference on Protein and Peptide Sciences: From Basic to Medical and Industrial Applications, Shiraz University, Shiraz, Iran, 2014.
- Structural Comparison of Amylin Between Species: Molecular Dynamics Simulation, T. Khaghani-Milani, J. Alizadeh-Rahrovi, B. Goliaei, A. Ebrahim-Habibi, the National Conference on Protein and Peptide Sciences: From Basic to Medical and Industrial Applications, Shiraz University, Shiraz, Iran, 2014.
- Comparison of Native and Glycated Myoglobin Structural Stability: A Molecular Dynamics Simulation Study, J. Alizadeh-Rahrovi, A. Ebrahim-Habibi, A. Shayesteh, Kowsar Medical Journal, 5th International Congress of Biochemistry and Molecular Biology & 13th Iranian Congress of Biochemistry, Yazd, Iran, 2013.
- Molecular Dynamic Simulation Study on Native and Glycated Form of Myoglobin, J. Alizadeh-Rahrovi, A. Shayesteh, A. Ebrahim-Habibi, 15th Iranian physical chemistry conference, University of Tehran, Tehran, Iran, 2012.

Contribution in Research Projects

- Rational Design of Stable and Functional HirudinIII Mutants with Lower Antigenicity, S. Asgari, H. Mirzahoseini, M. Karimipour, H. Rahimi, A. Ebrahim-Habibi, Biologicals, 2015, 43(6):479-91., doi: 10.1016/j.biologicals.2015.07.008.
- Structural and Dynamic Insight Into Hirudin Epitopes-HLADRB10101 Complexes and Their Modified Peptide Ligands: A Molecular Dynamic Simulation Study, S. Asgari, H. Mirzahoseini, M. Karimipour, A. Ebrahim-Habibi, Tropical Journal of Pharmaceutical Research, 2015, 14(12): 2171-2178, doi: 10.4314/tjpr.v14i12.3.

Executive Team Member of Conferences

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| 2016- May-June | 10-day workshop entitled “Introduction to Molecular Modeling”, Modeling and Simulating in Medical Sciences Group (MSMS), Endocrinology and Metabolism Research Institute (EMRI), Tehran University of Medical Sciences (TUMS), |
| 2016- March | 18 th Iranian Physical Chemistry Conference, University of Tehran, Kish Island, Iran. |
| 2012- September | 15 th Iranian physical chemistry conference, University of Tehran, Tehran, Iran. |

Skills and Competencies

Computer

- Operating Systems: Windows, Linux
- Familiar with YASARA, MOE, GROMACS, VMD, and ORCA software suits.
- C++ programming, (elementary)

Language

- Persian (native)
- English (upper intermediate)
- French (Intermediate)