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**EDUCATION**

**Ph.D In Plant Breeding: Genetic Engineering and Molecular Genetics**University of Tehran 2005-2009
**M.Sc In Agricultural Biotechnology**University of Tehran 2000-2003
**B.Sc In Agronomy and Plant Breeding**Shiraz University 1994-1998

**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1200** | **19** | **61** | **40** | **3** |
| Citations | h-Index | Article | Conference | Book |

***Articles***

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**12.** Nanostructures in non-invasive prenatal genetic screening. Sadeghi Samira, Rahaie Jahromi Mahdi, Ostad hasanzadeh maleki Bita (2021)., Biomedical Engineering Letters, 12(1), 3-18.

**13.** A Novel Fluorescence Nanobiosensor based on Modified Graphene Quantum dots-HTAB for Early Detection of Fetal Sexuality with Cell Free Fetal DNA. Rahaie Jahromi Mahdi, Ostad Hassanzadeh Bita, Faridbod Farnoush (2021)., JOURNAL OF FLUORESCENCE, 31(6), 1-11.

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**31.** Early detection of Alzheimer's disease using a biosensor based on electrochemically-reduced graphene oxide and gold nanowires for the quantification of serum microRNA-137. Azimzadeh Mostafa, Nasirzadeh Navid, Rahaie Jahromi Mahdi, Naderi-manesh Hossein (2017)., RSC Advances, 7(88), 55709-55719.

**32.** Effect of nanoparticle treatment on expression of a key gene involved in thymoquinone biosynthetic pathway in Nigella sativa L.. Kahila Mir Mohammad Hassan, Najy Amin Mahdi, Rahaie Jahromi Mahdi, Mir-derikvand Mohammad (2017)., NATURAL PRODUCT RESEARCH, 32(6), 1-5.

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**43.** Evaluation of drought tolerance in wild pear (Pyrus boissieriana Buhse). Zarafshar Mehrdad, Akbarnia Moslem, Hosseini Syed Mohsen, Rahaie Jahromi Mahdi (2016)., JOURNAL OF FOREST AND WOOD PRODUCTS (JFWP) (IRANIAN JOURNAL OF NATURAL RESOURCES), 69(1), 97-110.

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***Books***

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**5.** Effect of extract and essential oil of different medicinal plants and nanoparticles on growth of barley seed explant in culture media. Omidbakhsh Nazanin Zahra, Rahaie Jahromi Mahdi, Pejmanmehr Maryam (2019)., the 2th International Conference of Medicinal Plants, Organic Farming, Natural and Medicinal Materials, 13 March, Mashhad, Iran.

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**7.** Optimization an ethosomic nanocarrier end trapped plant compound for cancer treatment. Nasri Shilan, Rahaie Jahromi Mahdi, Ebrahimi Hoseinzadeh Bahman, Hatamian Zaremi Ashraf Sadat, Barghi Amid (2017)., 2nd Nanomedicine & Nanosaftey Conference, 29-30 November, Tehran, Iran.

**8.** Enhancing the sensitivity of an electrochemical biosensing of microRNA-155 using gold nanorod-decorated graphene oxide: comparing two different approaches. Azimzadeh Mostafa, Rahaie Jahromi Mahdi, Nasirzadeh Navid, Naderi-manesh Hossein (2017)., 2nd Nanomedicine & Nanosafety Conference, 29-30 November, Tehran, Iran.

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**37.** application of nanostructures for MicroRNA analysis. Farsinejad Sadaf, Rahaie Jahromi Mahdi (2013)., the 5th international congress of biochemistry and molecular biology & 13th iranian congress of biochemistry, 16-19 April, Yazd, Iran.

**38.** application of proteomics approach in cancer and infectious diseases studies. Tazari Fatemeh, Rahaie Jahromi Mahdi, Hatamian Zaremi Ashraf Sadat, Yazdian Fatemeh (2013)., 13th iranian congress of biochemistery&5th international congress of biochemistry@molecular biology, 16-19 April, Iran.

**39.** strategies for efficient expression of disulfide bond containing proteins in E. coli. Babaeipour Valiollah, Jafari Sevda, Rahaie Jahromi Mahdi, Mofid Mohammad Reza, Fallah Jalil (2012)., 12th iranian genetics congress, 21-23 May, Tehran, Iran.

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**HONORS and AWARDS**

**An electrochemical nanobiosensor for plasma miRNA-155, based ongraphene oxide and gold nanorod, for early detection of breast cancer** 2020, Tehran, Iran

**ACADEMIC POSITIONS**

**Scientific Committee member**
 2021-Present

**COURSES OFFERED**

**Nanobiotechnology in Industry and Environment

Biosensors

Molecular Biotechnology

Applied Molecular and Cell Biology

Computational Biology: Protein and Gene Analysis

Cell and Tissue Culture

Chemical and Bio Sensors

Nanobiotechnology in Industry and Environment

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Molecular Biotechnology

Applied Molecular and Cell Biology

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Information Technology in Nanobiotchnology

Molecular Biotechnology

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Information Technology in Nanobiotchnology

Bioreactors in medical engineering

Cell and Tissue Culture Principles

Laboratory for Nanobiotechnology

Molecular Biotechnology

Design of Experiments

Laboratory for Nanobiotechnology

Molecular Biotechnology**

**LABORATORIES**

**Plant cell & Tissue culture Lab**