



Nima RabieNezhad Ganji

Date of birth: 31/07/1992 | **Nationality:** Iranian | **Gender:** Male |

[REDACTED] | [REDACTED]

nima.rabienezhadganji@unipa.it | **Website:**

[REDACTED]

[REDACTED]

ABOUT ME

Nima is a full-time Researcher at the University of Palermo (Palermo, Italy). He conducts research in a funded project titled "Use of extracellular vesicles for Targeted RNA Delivery Systems Development"—as his main Postdoc project—under the supervision of Prof. Riccardo Alessandro. Furthermore, Nima contributes -as an invited member- to the Scientific Committee of "Global Research, Education and Event Network (GREEN)

EDUCATION AND TRAINING

20/02/2024 – CURRENT Palermo, Italy

POSTDOCTORAL RESEARCHER University of Palermo

Field of study Biomedical Science

17/12/2020 – 20/02/2024 Palermo, Italy

PHD University of Palermo

Field of study Oncology |

Thesis Our aim in this project is The Development of siRNA and miRNA Loading strategies in Plant and Mammalian extracellular vesicles in the inhibition of cancer cell phenotype

13/09/2015 – 17/02/2018 Tehran, Iran

MASTER OF SCIENCE Islamic Azad University (IAU) Tehran Medical Branch

Field of study Molecular Cell Biology | **Final grade** 17.54 out of 20 |

Thesis Evaluation of the effects of estradiol valerate and progesterone on the activity of caspase 8 and 9 and evaluating the expression of BAX, BCL-2, and P53 genes in the apoptosis pathway of HT29 cancer cells in the cell culture

13/09/2011 – 13/08/2015 Tonekabon, Iran

BACHELOR OF SCIENCE Bachelor Islamic Azad University (IAU) Tonekabon Branch

Field of study Biology (Genetics) | **Final grade** 18 out of 20

WORK EXPERIENCE

19/01/2023 – CURRENT

JOURNAL REVIEWER JBS AND IJBLS

Reviewer in the Journal of Biological Studies(JBS) and International Journal of BioLife Sciences (IJBLS)

<https://onlinejbs.com/index.php/jbs>

<https://www.jobiost.com/>

18/01/2023 – CURRENT United Kingdom

SENIOR MEMBER OF IAS INTERNATIONAL ASSOCIATION OF SCIENTISTS (IAS)

- 1- Organize and chair a new or existing conference sponsored by IAS
- 2- Assigned to be the committee or chair of the relevant conference sponsored by IAS

01/06/2023 – 31/07/2023 Online, Türkiye

BIOLOGY LECTURER GREEN ACADEMIC COMPANY

Introduction to Molecular Oncology: 2nd semester

01/04/2022 – 30/09/2022 Online, Iran

BIOLOGY LECTURER GREEN AND PARHAM ACADEMIC COMPANY

For BSc candidate: Molecular Biology course for 30 hours

01/04/2022 – 30/09/2022 Online, Iran

BIOLOGY LECTURER GREEN AND PARHAM ACADEMIC COMPANY

For BSc candidate: Cell Biology course for 30 hours

06/06/2019 – CURRENT Türkiye

SCIENTIFIC COMMITTEE GLOBAL RESEARCH, EDUCATION AND EVENT NETWORK (GREEN), TURKEY

As an invited member to the Scientific Committee of "The Global Research, Education, and Event Network (GREEN)

05/06/2018 – CURRENT Tehran, Iran

LECTURER AND TUTOR GLOBAL RESEARCH, EDUCATION AND EVENT NETWORK (GREEN)

Lecturer and tutor of workshops on Academic Writing Skills, Parnam Publication

16/01/2016 – 19/12/2016 Tehran, Iran

POSTGRADUATE STUDENT/RESEARCHER JAVID BIOTECHNOLOGY COMPANY, TEHRAN

Working as a postgraduate student/researcher, conducting laboratory studies and molecular experiments

● LANGUAGE SKILLS

Mother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
ARABIC	B1	C1	B1	B1	B1
ITALIAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Excel | LinkedIn | Facebook | Outlook

SCIENTIFIC SKILLS

Cell Culture (cell freezing, cell thawing, cell passage and cell counting) | molecular biology | Lab image | Programming languages (Python and R) | ImageJ | Graph-Pad | Primer Design | Reference management software (Zotero, EndNote)

PUBLICATIONS

2024

[Industrial-produced lemon nanovesicles ameliorate experimental colitis-associated damages in rats via the activation of anti-inflammatory and antioxidant responses and microbiota modification](#)

Tinnirello V, Zizzo MG, Conigliaro A, Tabone M, **Ganji NR**, Cicio A, Bressa C, Larrosa M, Rappa F, Vergilio G, Gasparro R, Gallo A, Serio RM, Alessandro R, Raimondo S.

2023

[Proof-of-Concept Study on the Use of Tangerine-Derived Nanovesicles as siRNA Delivery Vehicles toward Colorectal Cancer Cell Line SW480](#)

Rabienezhad Ganji, N.; Urzì, O.; Tinnirello, V.; Costanzo, E.; Polito, G.; Palumbo Piccionello, A.; Manno, M.; Raccosta, S.; Gallo, A.; Lo Pinto, M.; et al. Proof-of-Concept Study on the Use of Tangerine-Derived Nanovesicles as siRNA Delivery Vehicles toward Colorectal Cancer Cell Line SW480. *Int. J. Mol. Sci.* **2024**, *25*, 546. <https://doi.org/10.3390/ijms25010546>

2023

[Lemon-derived nanovesicles achieve antioxidant and anti-inflammatory effects activating the AhR/Nrf2 signaling pathway](#)

Urzì O, Cafora M, **Ganji NR**, Tinnirello V, Gasparro R, Raccosta S, Manno M, Corsale AM, Conigliaro A, Pistocchi A, Raimondo S, Alessandro R. Lemon-derived nanovesicles achieve antioxidant and anti-inflammatory effects activating the AhR/Nrf2 signaling pathway. *iScience*. 2023 Jun 7;26(7):107041. doi: 10.1016/j.isci.2023.107041. PMID: 37426343; PMCID: PMC10329147.

2023

[Effects of Black Raspberry Extract on the Oxidant-Antioxidant System Balance in an Animal Model of Diabetes](#)

Amini, N., Najafi, S., **RabieNezhad Ganji, N.**, Mirazi, N., Abbasalipourkabir, R. Effects of Black Raspberry Extract on the Oxidant-Antioxidant System Balance in an Animal Model of Diabetes. *International Journal of BioLife Sciences (IJBLS)*, 2023; 2(1): 92-97. doi: 10.22034/jbs.2023.178667

2023

[Evaluation of the effects of estradiol valerate and progesterone on the activity of caspase 8 and 9 and evaluating the expression of BAX, BCL-2, and P53 genes in the apoptosis pathway of HT29 cancer cells in the cell culture](#)

Shabanzadeh, M., Sirati Moghaddam, P., RabieNezhad Ganji, S., **RabieNezhadganji, N***. The Effects of Estradiol Valerate and Progesterone on the Activity of Caspase-8 and -9 and Evaluating the Expression of BAX, BCL2, and P53 Genes in the Apoptosis Pathway of HT29 Cancer Cells in the Cell Culture. *International Journal of BioLife Sciences (IJBLS)*, 2022; 1(4): 227-234. doi: 10.22034/jbs.2023.366590.1004

2023

[Cytotoxic effects of ibuprofen on cervical cancer \(Hela\) cells through induction of nitric oxide synthase2 \(iNOS\) gene expression](#)

Ganji, N. R., Shabanzadeh, M., Sirati Moghaddam, P., & RabieNezhad Ganji, S. (2023). Cytotoxic effects of ibuprofen on cervical cancer (Hela) cells through induction of nitric oxide synthase2 (iNOS) gene expression. *Journal of Biological Studies*, 6(1), 169–177. Retrieved from <https://onlinejbs.com/index.php/jbs/article/view/7777>

2023

[Exploiting the Opportunity to Use Plant-Derived Nanoparticles as Delivery Vehicles](#)

Tinnirello, V.; **Rabienezhad Ganji N***; De Marcos Lousa, C.; Alessandro, R.; Raimondo, S. Exploiting the Opportunity to Use Plant-Derived Nanoparticles as Delivery Vehicles. *Plants* **2023**, *12*, 1207. <https://doi.org/10.3390/plants12061207>. (* Co-first authors).

2023

Identification of EGFR Gene Exon 21 and 20 Mutations Based on the Method of PCR Sequencing in Paraffin Biopsy of Lung Cancer

Hashemi, A., shabanzadeh, M., **Rabienezhad Ganji, N.**, Sirati Moghaddam, P. Identification of EGFR Gene Exon 21 and 20 Mutations Based on the Method of PCR Sequencing in Paraffin Biopsy of Lung Cancer. *International Journal of BioLife Sciences (IJBS)*, 2023; 2(2): 242-252. doi: 10.22034/ijbbs.2023.185495

2023

Exploring Oncology Research: From Molecular Discoveries to Translational Breakthroughs

Dalghi, E., **RabieNezhad Ganji, N.** Exploring Oncology Research: From Molecular Discoveries to Translational Breakthroughs. *International Journal of BioLife Sciences (IJBS)*, 2023; 2(2): 173-180. doi: 10.22034/ijbbs.2023.185484

2023

AI-Driven Medical Innovations: Transforming Healthcare through Data Intelligence

Ahmadi, A., **RabieNezhad Ganji***, N. AI-Driven Medical Innovations: Transforming Healthcare through Data Intelligence. *International Journal of BioLife Sciences (IJBS)*, 2023; 2(2): 132-142. doi: 10.22034/ijbbs.2023.185475

2022

Anti-inflammatory properties of lemon-derived extracellular vesicles are achieved through the inhibition of ERK/NF-κB signalling pathways

Raimondo S, Urzì O, Meraviglia S, Di Simone M, Corsale AM, **Rabienezhad Ganji N**, Palumbo Piccionello A, Polito G, Lo Presti E, Dieli F, Conigliaro A, Alessandro R. . *J Cell Mol Med*. 2022 Aug;26(15):4195-4209. doi: 10.1111/jcmm.17404. Epub 2022 Jul 4. PMID: 35789531; PMCID: PMC9344827.

2022

Plant-RNA in Extracellular Vesicles: The Secret of Cross-Kingdom Communication

Urzì O, Gasparro R, **Ganji NR**, Alessandro R, Raimondo S. Plant-RNA in Extracellular Vesicles: The Secret of Cross-Kingdom Communication. *Membranes (Basel)*. 2022 Mar 23;12(4):352. doi: 10.3390/membranes12040352. PMID: 35448322; PMCID: PMC9028404.

2022

The changes in cognitive function following bariatric surgery considering the function of gut microbiome

MiladKheirvari, Vivienne A. Lacy, HamidrezaGoudarzi, **Nima RabieNezhad Ganji**, Mona Kamali Ardekani, Taha Anbara, , *Obesity Pillars*, Volume 3, 2022, 100020, ISSN 2667-3681,https://doi.org/10.1016/j.obpill.2022.100020.

● **ACADEMIC GRANT**

04/2019 – 10/2019

The cytotoxic effects of selenium nanoparticles with 5fu on liver cancer (HepG2) cells compared to HEK cells and evaluation of expression level of Bax, Bcl2, P53, Caspase-3, -8, and -9 and NO level in HepG2 cells

Grant Amount: 6000 Euros

Institution: Academy of International Research, Events and Courses (AIREC)

Grant Duration: April 2019- October 2019

Funding Category: Annually Research Awards

02/2019 – 08/2019

Evaluation of combined silver chloride nanoparticles synthesized by green method with 5FU on cell viability and expression of Bax, BCL-2 and P53 genes in breast cancer (MCF7) cells

Grant Amount: 3500 Euros

Institution: Academy of International Research, Events and Courses (AIREC)
Grant Duration: February 2019- August 2019
Funding Category: MSc Research Awards

01/08/2018 – 30/12/2018

The cytotoxic effects of antidepressant amitriptyline on Hek293, MCFT, A2780 and HeLa cells in vitro

Grant Amount: 4000 Euros
Institution: Global Research, Education, and Event Network (GREEN)
Grant Duration: 1 August 2018- 30 December 2018
Funding Category: MSc Research Awards

01/09/2018 – 29/11/2018

Cytotoxic effects of ibuprofen on cervical cancer (Hela) and evaluation of nitric oxide synthase2 (iNOS) gene expression

Grant Amount: 2800 Euros
Institution: Global Research, Education, and Event Network (GREEN)
Grant Duration: September 2018- November 2018
Funding Category: MSc Thesis Awards for Distinguished Students

20/04/2018 – 20/09/2018

The cytotoxic effects of antidepressant sertraline on MCF7, A2780 and HeLa cells in vitro

Grant Amount: 4200 Euros
Institution: Academy of International Research, Events and Courses (AIREC)
Grant Duration: 20 April 2018-20 Sep 2018
Funding Category: MSc Research Awards

01/09/2017 – 29/01/2018

The Effects of Estradiol Valerate and Progesterone on the Activity Level of Caspase-8 and -9 and Evaluating the Expression Level of BAX, BCL-2, and P53 Genes in HT29 Cells

Grant Details: Grant Amount: 3200 Euros
Institution: Global Research, Education, and Event Network (GREEN)
Grant Duration: September 2017- January 2018
Funding Category: MSc Thesis Awards for Distinguished Students

01/09/2017 – 30/12/2017

The Cytotoxic Effects of Plant Extract Synthesized Silver Nanoparticles with 5FU on Breast Cancer (MCF7) Cells Compared to Hek Cells and Evaluation of Expression level of Bax, Bcl2, P53, Caspase-3, -8, and -9 and NO level in MCF7 Cells

Grant Amount: 8000 Euros
Institution: International Association of Scientists
Grant Duration: 1 September, 2017 - December 30, 2017
Funding Category: MSc Research Awards

01/01/2017 – 01/08/2017

Green synthesis of silver chloride nanoparticles and investigating the cytotoxic effects on growth, proliferation and migration of human umbilical cord Wharton jelly derived mesenchymal stem cells

Grant Amount: 6500 Euros
Institution: International Association of Scientists
Grant Duration: 1 January, 2017 - August 1, 2017
Funding Category: Annual Research Awards

COURSES

01/10/2023 – 12/12/2023

Certificate for teaching Molecular Medicine and Nanovesicle

Molecular Medicine and Nanovesicle organized by **ACADEMY OF INTERNATIONAL RESEARCH, EVENTS, and COURSES (AIREC)** delivering a total of 20 hours of instruction during the period of: October 2023 - December 2023.

Dr. Nima RabiNezhad Ganji's expertise and dedication have significantly contributed to the success of the course, providing participants with in-depth knowledge and practical insights into molecular medicine and the application of nanovesicles in medical science.

Certificate for Seminar on AUTHOR WORKSHOP: HOW TO PUBLISH YOUR BOOK WITH SPRINGER

University of Palermo
2023

Certificate of Completion: WRITING REVIEW PAPERS USING AI

Parnam Publication Co. and International Journal of BioLife Sciences

2023

Certificate of Completion: Writing Research Paper for ISI-INDEXED Journal (ADVANCE) Course

Green and Parham Company
05/2022

Certificate of Completion: Writing Research Paper (BASIC) Course

Green and Parham Company
10/2021

Certificate for a Workshop on laboratory animal handling, injection, blood sampling, and surgery in a conjoint event to

ICCBMS2, Turkey
2021

Certificate for Seminar on AUTHOR WORKSHOP: HOW TO PUBLISH YOUR BOOK WITH SPRINGER

University of Palermo
2021

Certificate of participation in the 6th Virtual Symposium of Genetics and Stem Cell Tending to Gene Therapy

2021

Certificate of attendance, Workshop on Stem Cells Isolation, Culture, Differentiation, and Characterization

Turkey
2021

Certificate for teaching HOW TO WRITE A RIGHT CV

Turkey
2021

Certificate of attendance, Workshop on La Transizione Ecologica E La Sostenibilita Tecnologia Mini-Invasiva Il Ruolo Delle Societa Scientifiche

Italy
2021

Certificate of attendance, Workshop on Societa Italiana Di Biologia Sperimentale

Italy
2021

Certificate of attendance, Seminar on CRISPR

Iran (ONLINE)
2021

Certificate of Completion: Intensive Course in ACADEMIC STATISTICAL METHOD

Green and Parham
2021

Certificate of Completion: Thesis Writing

Green and Parham Company
2021

Certificate of Completion: PATENT INFORMATION And DOCUMENTATION

Parham Publication Co and Green
2021

Certificate of attendance, Workshop on CRISPR

Iran (ONLINE)
2021

Certificate of attendance, Workshop on Professional Article Reading Webinar

Iran
2021

Certificate for oral presentation paper titled "Molecular mechanism of differentiation of stem cells into chondrocytes" in technical recognition and appreciation of research contributions to the International Conference on Life Science

Turkey
2020

Certificate for oral presentation paper titled " Differentiation Effects of NSAIDs on Memory and Learning" in technical recognition and appreciation of research contributions to International Conference on Life Science

Turkey
2020

Certificate of attendance, Workshop on Data Mining and COVID-19

Online
2020

Certificate of attendance, Workshop on Stem Cells Isolation, Culture and Application in COVID-19 Treatment, GREEN international network

Online
2020

Certificate of attendance, Workshop on Cell Culture, GREEN international network

Turkey
2020

Certificate for best presentation paper titled "The Effect of Cytotoxic Dose of Estradiol valerate on Caspase 9 Activity Level in Colon Cancer (HT29) Cells"

Budapest, Hungary
2017

Certificate for mastering the following skills

At Javid Biotechnology Institute, Tehran, Iran
2017

Certificate for attendance at the Workshop

Gene Transfer Pioneers (GTP) group and Iranian Biotechnology Society, Tehran "Genetic Engineering & Molecular Techniques"
Tehran
2017

Certificate for attendance at International Workshop

Cité Internationale Universitaire de Paris (sponsored by Int. Institute of Chemical, Biological) Reproductive Biology "Sex steroids and cancers"
Paris
2016

Certificate for oral presentation paper

International Conference on Agricultural, Food, Biological and Health Sciences, The Effects of Vitex Agnus-castus L. Extract on Fertility of Male Rates"
Kuala Lumpur 2016

Certificate for attendance at the Workshop

Reproductive Biology Female impotence: Causes and Cures
Kuala Lumpur, 2016

● CONFERENCES AND SEMINARS

04/05/2024 – 05/05/2024 Palermo, Italy

2nd INTERNATIONAL CONFERENCE ON CELLULAR AND MOLECULAR MEDICINE (ICCM24)

REVIEWERS and CONFERENCE MANAGER

Link <https://academy-airec.com/events/iccmm24/>

11/09/2023 – 12/09/2023 Paris

Mechanisms of intercellular and inter-organismal communication via RNA

Poster title:

Proof-of-concept study on the use of tangerine-derived nanovesicles as RNAi delivery vehicles toward mammalian cells

Link <https://exrnaphath.eu/cost-meeting-announcement-mechanisms-of-intercellular-and-inter-organismal-communication-via-rna/>

12/04/2023 – 15/04/2023 Trieste (Italy)

95° Congresso della Società Italiana di Biologia Sperimentale (SIBS)

Poster title:

Proof-of-concept study on the use of tangerine-derived nanovesicles as siRNA delivery vehicles towards mammalian cell lines

Link <https://www.sibsperimentale.it/95congresso-sibs-trieste/>

06/02/2023 – 10/02/2023 VENICE (Italy)

XXVII SCHOOL OF PURE AND APPLIED BIOPHYSICS

Poster title:

Proof-of-concept study on the use of tangerine-derived nanovesicles as siRNA delivery vehicles towards mammalian cell lines

The Società Italiana di Biofisica Pura e Applicata (SIBPA) and the Istituto Veneto di Scienze Lettere e Arti (IVSLA), along with the Italian Society for Extracellular Vesicles (EVIta) and the H2020-FET-Proactive project BOW, promote the XXVII SCHOOL OF PURE AND APPLIED BIOPHYSICS in Extracellular vesicles: from biophysical to translational challenges. Venice, Italy - February 6-10 2023

Link <http://venice2023.ibf.cnr.it/index.php>

28/04/2022 – 28/04/2022 Palermo, ITALY

Supramed National meeting: Sustainable practice in medicinal chemistry

Abstract title:

Plant-Derived Extracellular Vesicles as Drug Delivery Systems: A Proof Of Concept Study Using Tangerine Vesicles

2021 – 2021 ITALY

Microscopy Conference

Abstract title:

Isolation and characterization of Tangerine-derived extracellular vesicles

19/12/2020 – 20/12/2020

Online International Conference on Life Sciences (OICLS-20)

Oral Presentation:

Effects of NSAIDs on Memory and Learning

Link https://www.greennetwork-events.com/all_images/file_573.pdf

06/09/2017 – 07/09/2017 Budapest (Hungary)

International Conference on Chemical, Biological, Medical, and Pharmaceutical Sciences (CBMPS-2017)

Oral Presentation:

The Effects of Cytotoxic Dose of Estradiolvalerate on Caspase 9 Activity level in Colon Cancer (HT29) Cells

Link <https://www.iicbe.org/page.php?&catDid=87&mode=page&pageid=119>

06/09/2017 – 07/09/2017 Budapest (Hungary)

International Conference on Chemical, Biological, Medical, and Pharmaceutical Sciences (CBMPS-2017)

Oral Presentation:

The Effects of Cytotoxic Dose of Progesterone on Caspase 8 Activity Level in Colon Cancer (HT29) Cells

Link <https://www.iicbe.org/page.php?&catDid=87&mode=page&pageid=119>

22/08/2016 – 24/08/2016 Kuala Lumpur (Malaysia)

International Conference on Agricultural, Food, Biological and Health Sciences (AFBHS-16)

Oral Presentation:

The Effects of Vitex ugnus-castus L. Extract on Fertility of Male Rats

REFERENCES

28/12/2020 – CURRENT

Prof. Dr. RICCARDO ALESSANDRO

Biomedicine, Neuroscience and Advanced Diagnostics

+3909123865717
riccardo.alessandro@unipa.it
PhD Supervisor

28/12/2020 – CURRENT

Prof. Dr. STEFANIA RAIMONDO

Biomedicine, Neuroscience and Advanced Diagnostics
+3909123865733
stefania.raimondo@unipa.it

28/12/2020 – CURRENT

Prof. Dr. SIMONA FONTANA

Biomedicine, Neuroscience and Advanced Diagnostics
+3909123865731
simona.fontana@unipa.it

28/12/2020 – CURRENT

Prof. Dr. ALICE CONIGLIARO

Biomedicine, Neurosciences and Advanced Diagnostics
+3909123865728
alice.conigliaro@unipa.it

19/01/2016 – CURRENT

Prof. Dr. Rahim Ahmadi

Ph.D. in Physiology (Associate professor)
+98912-612-0353
rahahmadi2001@yahoo.com



25/06/2024