

# Amin Ravaei

## *Personal Information*

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- Name: Amin
- Surname: Ravaei

## *Research Interests*

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- Genetic and epigenetic of rheumatoid arteritis
- Multiple targeting approach in rheumatoid arteritis
- Pathogenesis of miscarriage
- Pharmaceutical biotechnology

## Education

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- **Ph.D Student** (2017-Present) Medical Genetics. University of Ferrara, Ferrara, Italy.  
**Supervisor:** Prof. Michele Rubini
- **M.Sc.** (2011-2014) Developmental Biology. Kharazmi University, Tehran, Iran. CGPA: 17.43/20  
**Final thesis:** Transformation of Canola (*Brassica napus* L.) by *Agrobacterium tumefaciens* Containing *espA-eae* Gene, under the Control of Seed-specific FAE Promoter  
**Supervisors:** Prof. Ali Hatef Salmanian, Prof. Parissa Jonoubi  
**Score:** 20/20
- **B.Sc.** (2007-2011) Cellular and Molecular Biology-Genetics. Azad University, Tonekabon, Iran. CGPA: 18.20/20
- **Pre-university degree.** (2005-2006) Experimental Sciences. Ali-ebne-Abitaleb High School, Khalkhal, Iran. CGPA: 15.23/20
- **High School Diploma.** (2002-2005) Experimental Sciences. Ali-ebne-Abitaleb High School, Khalkhal, Iran. CGPA: 18.32/20

## Honors and Awards

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- Young Researcher's Award by AJA University for Scientific Investigations, Iran (2015)
- Young Researcher's Award by Young Researcher's Club for Scientific Investigations, Iran (2010)
- Ranked among top 5% B.Sc. students
- Ranked among top 5% high school students

## Research Experience

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- **Ph.D thesis.** (2017-Present). Pharmacogenetics of bDMARDs and pharmacoeugenetics of MTX in rheumatoid arthritis. University of Ferrara, Ferrara, Italy.
- **Research project.** (2017-Present). Gene-Environmental Interactions in cleft lip. University of Ferrara, Ferrara, Italy.
- **Research project.** (2017-Present). Interplay between embryo's and mother's genetic profile in the pathogenesis of miscarriage. University of Ferrara, Ferrara, Italy.
- **Research project.** (2017-Present). The effect of folates on growth, survival and differentiation of human primary trophoblasts cells. University of Ferrara, Ferrara, Italy.
- **Research project.** (2015-2016). Levels of serum LPA (lysophosphatidic acid) of chronic myeloid leukemia (CML) patients in Imam-Reza Hospital. AJA Medical University, Tehran, Iran.
- **Master thesis.** (2012-2014). Transformation of Canola (*Brassica napus* L.) by *Agrobacterium tumefaciens* Containing *espA-eae* Gene, under the Control of Seed-specific FAE Promoter. Kharazmi University, Tehran, Iran.
- **Research project.** (2010-2011). Antimicrobial effects of three *Lactobacillus* species against antibiotic resistant *Salmonella typhimurium*. Islamic Azad University, Tonekabon, Iran.
- **Research project.** (2010-2011). Population Genetic structure of *Clupeonella cultriventris* in the south Caspian Sea coastline using microsatellite marker. Islamic Azad University, Tonekabon, Iran.
- **Research project.** (2008-2009). Occurrence and prevalence of gill parasites of sturgeons in southwestern region of the Caspian Sea. Islamic Azad University, Tonekabon, Iran.

## Work Experience

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- **Office Manager.** (2015-2016) Besat Hospital. Tehran, Iran.
- **Lecturer** in theoretical and practical workshop on "Plant Cell and Tissue Culture" 2015. Kharazmi University, Tehran, Iran.

- **Technical Manager in Genetic Laboratory.** (2012-2014). Genetic Laboratory of Kharazmi University, Tehran, Iran.
- **Teaching Assistant.** (2012-2014). Kharazmi University, Tehran, Iran.
- **Lecturer** in theoretical and practical workshops on "Molecular Techniques in Botechnology, DNA Extraction, PCR, Electrophoresis" 2013. Kharazmi University, Tehran, Iran.
- **Lecturer** in theoretical and practical workshops on " Plant Cell and Tissue Culture; Plan Transformation" 2013. Kharazmi University, Tehran, Iran.
- **Lecturer** in theoretical and practical workshops on "Plant Cell and Tissue Culture" 2012. Kharazmi University, Tehran, Iran.

## *Publications*

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- Abouhamzeh B, Mirzaii-Dizgah I, Ravaei A. Serum Lysophosphatidic Acid Level in Chronic Myeloid Leukemia. *Annals of Military & Health Science Research*. 2017. 15(1): e62801.
- Ravaei A, Jonoubi P, Salmanian AH. Optimization of *in vitro* shoot regeneration and *Agrobacterium*-mediated transformation of *Brassica napus*. *International Journal of Biosciences*. 2015. 6(3): 319-329.
- Samiei MH, Norouzi M, Ravaei A, Behrooz M, Nazemi A. Genetic structure in anzali wetland's pike (*Esox lucius*) using microsatellite molecular method. *Journal of biodiversity and Environmental Sciences*. 2015. 6(3): 91-99.
- Jonoubi P, Salmanian AH, Ravaei A. Histochemical analysis of expression pattern of CaMV 35S promoter in transgenic rapeseed (*Brassica napus* L.). *Current World Environment*. 2015. 10(1): 752-757.
- Ravaei A, Heshmatipoor Z, Zahraei Salehi T, Ashrafi Tamai I, Ghane M, Derakhshanpoor J. Evaluation of Antimicrobial Activity of Three *Lactobacillus* spp. Against Antibiotic Resistance *Salmonella typhimurium*. *Advanced Studies in Biology*. 2013. 5(2):61-70.
- Norouzi M, Nazemi A, Pourkazemi M, Samiei MH, Ravaei A. Population genetic structure of common kilka (*Clupeonella cultriventris*) in the South Caspian Sea coastline (Gilan Province) using microsatellite markers. *Journal of Fisheries, Islamic Azad University, Azadshahr Branch*. 2013. 7(2):69-76. (In Persian)

- Norouzi M, Nazemi A, Pourkazemi M, Samiei MH, Ravaei A, Daneshvar F. Population genetic structure of common kilka (*Clupeonella cultriventris*) in the South Caspian Sea coastline (Babolsar and Anzali zone) using microsatellite markers. Research Journal of Aquatic Organisms. 2013. 1(3):61-69. (In Persian).
- Samiei Ardekani MH, Norouzi M, Nazemi A, Ravaei A, Amirjanati A, Behruz M, Arabi Sh. Population Genetic Structure of Anzali Wetland Pike (*Esox lucius* L.) during Spawning Seasons: Spring and winter. Journal of the First Conference of Marine and Ocean Science and Technology of Khorramshahr. 2012.

## *Presentations*

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- Longobardi P, Leandro G, Galvani A, Ravaei A, Donghia R, Rubini M. Functional gene polymorphisms in divers with previous DCS. TRICON. 2018. Durban, South Africa.
- Capucci R, Brasile O, Graziano A, Poggi A, Bassi-Andreas R, Aleotti V, Ravaei A, Khan M, Aiello V, Astolfi G, Rubini M. Maternal and embryo's MTHFR genotypes influence the risk of spontaneous abortion. 21st National congress AGORA SIMP. 2018. Catania. Italy.
- Ravaei A, Jonoubi P, Salmanian AH. Histochemical analysis of expression pattern of CaMV 35S promoter in transgenic rapeseed (*Brassica napus* L.). 2<sup>nd</sup> National Conference of Applied Researches in chemistry, Biology and Geology. 2015. Tehran, Iran.
- Jonoubi P, Ali Hatef Salmanian, Ravaei A. Histochemical Study of GUS Expression in Agrobacterium-mediated Transformed Rapeseed (*Brassica napus* L.). National Congress of Biological Sciences. 2013. Isfahan, Iran. (In Persian)
- Norouzi M, Nazemi A, Pourkazemi M, Samie MH, Ravaei A, Eskandari A. Population Genetic structure of Common Kilka (*Clupeonella cultriventris*) in the South Caspian Sea (Gilan Province) Using Microsatellite Marker. International Congress on Aquaculture, AQUA. 2012. Prague, Czech Republic.
- Samiei Ardekani MH, Norouzi M, Nazemi A, Ravaei A, Amirjanati A, Behruz M, Arabi Sh. Population Genetic Structure of Anzali Wetland Pike (*Esox lucius* L.) during Spawning Seasons: Spring and winter. The First Conference of Marine and Ocean Science and Technology of Khorramshahr. 2012. Khorramshahr, Iran.
- Arabi Sh, Jafar poor M, Ravaei A, Samiei Ardekani MH. Frequency determination of Entrobacteriaceae causing lamb abortion in western area of Mazandaran Province. 6th

Iranian Congress of Clinical Microbiology & the First International Congress of Clinical Microbiology. 2012. Mashham, Iran.

- Arabi Sh, Jafarpoor M, Samiei Ardekani MH, Ravaei A. Identification and isolation of *Enterobacteriaceae* causing lamb abortion using culture and PCR methods in western Mazandaran. 2<sup>nd</sup> National Congress of Veterinary Laboratory Sciences. 2012. Semnan. Iran. (In Persian)
- Shokouhi Mostafavi SK, Memariani H, Memariani M, Shokouhi Mostafavi NS, Ravaei A. Determining Antibiotic Resistance of Shigella Strains in Hospitalized Children in Different Parts of Bahrami Children's Hospital in the First Half of 1390. The 13<sup>th</sup> Iranian and the 2<sup>nd</sup> International Congress of Microbiology. 2012. Ardabil. Iran. (In Persian)
- Memariani H, Memariani M, Shokouhi Mostafavi NS, , Ravaei A, Shokouhi Mostafavi SK. The 6 Month Study of Antibiotic Resistance of Bacteria Isolated From Children with Septicemia In Tehran. The 13<sup>th</sup> Iranian and The 2<sup>nd</sup> International Congress of Microbiology. 2012. Ardabil. Iran. (In Persian)
- Tavakol S, Aghlmandi F, Akhemi H, Ravaei A. Occurrence and Prevalence of Gill Parasites of Sturgeons in Southwestern Region of the Caspian Sea. The 1st International Congress on Aquatic Animal Health Management and Diseases. 2009. Tehran, Iran.

### *Supervised Theses*

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- Ricerca di associazione tra varianti genetiche ed evoluzione da Artrite Indifferenziata ad Artrite Reumatoide. Ilaria Cestonare. 2018. University of Ferrara, Ferrara, Italy
- *MTHFR* e aborto spontaneo: studio dei polimorfismi c.677C>T e c.1298A>C nel genotipo materno ed embrionale. Giovanna Miranda Chin. 2018. University of Ferrara, Ferrara, Italy
- Effetti dei folati sulla crescita e la sopravvivenza di cellule irradiate con raggi UV-A. Federica Nardini. 2017. University of Ferrara, Ferrara, Italy

### *Professional Skills*

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- Molecular Techniques: Nucleic acid extraction, Polymerase Chain Reaction (PCR) Electrophoresis, Real-Time PCR, Pyrosequencing.
- Human cell/tissue culture

- Plant Tissue Culture
- *Agrobacterium*-mediated plant transformation
- Microbiological diagnostic tests and cultures

## *Educational Workshops*

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- Basic, Structure and Documentation of Quality Management System in Laboratories in Accordance with: ISO/IEC 17025:2005 (American Global Standard). 2013. Kharazmi University, Tehran, Iran.
- Webcast on Charting a Course for a Successful Research Career (By ELSEVIER) 2012. Dublin, Ireland.
- General Education of Nanotechnology. 2012. Kharazmi University, Tehran. Iran.
- PCR and Real-Time PCR Primer-Probe Design. 2010. Tarbiat Modares University, Tehran, Iran.
- How to use data from NCBI. 2010. Azad University, Tonekabon, Iran.
- Exploring Internet. 2010. Azad University, Tonekabon, Iran.
- Scientific paper writing skills in English. 2010. Azad University, Tonekabon, Iran.
- Methods in Preparing Research Proposals. 2010. Azad University, Tonekabon, Iran.
- Bioinformatics in Proteomic. 2009. Azad University, Tonekabon, Iran.
- Epigenetics' role in Genetic Syndromes. 2009. Sarem Hospital, Tehran, Iran.
- Genetics' role in Breast and Familial Ovary Cancer. 2009. Sarem Hospital, Tehran, Iran.

## *Language Proficiency*

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- **English**
  - ❖ **iBT TOEFL (ETS): 85**
    - ✓ Reading: 25
    - ✓ Listening: 20
    - ✓ Speaking: 17
    - ✓ Writing: 23
  - ❖ **Computer-based General GRE (ETS)**
    - ✓ Quantitative: 150-155
    - ✓ Verbal: 149-146
    - ✓ Analytical writing: 3-3

- **Italian**
  - ✓ Elementary
- **Azerbaijani**
  - ✓ Native
- **Persian**
  - ✓ Native

## *Computer Skills*

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- **International Computer Driving Licence (ICDL)**

## *Scientific Membership*

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- Young Researcher's Club
- Iranian Genetic Society
- Iranian Biology Society
- Plant Sciences Society of Kharazmi University

## *References*

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- Prof. Michele Rubini  
Medical Genetics Unit, Department of Biomedical and Specialty Surgical Sciences,  
University of Ferrara, Ferrara, Iran.
- Prof. Parissa Jonoubi  
Department of Biology, Faculty of Biological Sciences, Kharazmi University, Tehran,  
Iran.



- Prof. Saeed Irian  
Department of Cellular and Molecular Biology, Faculty of Biological Sciences,  
Kharazmi University, Tehran, Iran

- Prof. Mohammad Tahmaseb  
Department of Genetics, Faculty of Biological Sciences, Kharazmi University, Tehran,  
Iran