

CURRICULUM VITAE

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Department of Biomedical Sciences (Since September 2000).

Alzahra University, Tehran, Iran.

***Ph.D. Adelaide University, Australia, 1997.**

***M.Sc. Tarbiat Modaress University, Tehran, IRAN, 1990.**

***B.Sc. Tehran University, 1986.**

- 1. *Persian Patent No: 82/A011850, 2009, Production of High-yield Astaxanthine Mutant *Phaffia rhodozyma* Yeast Using Gama Ray.**

2-. Received the Knowledge Enterprise

**Certificate and approval of Life Refreshment Biotechnology Development Company
with national ID number 14009360596 by the Presidential Vice President for Science and
Technology**

C- Receiving the approval of knowledge- Enterprise products by the Vice President for Science and Technology:

1- Astaxanthin (medicinal oil), ISIC code 2423516467

2- Astabium food and drug supplement (in the form of soft Gel capsules) based on astaxanthin, vitamin E, vitamin D3 and Omega 3, ISIC code 2423415479

****Published Papers:**

1. Construction of a range of derivatives of the biological control strain *Agrobacterium*. 1998. [*Applied and Environmental Microbiology*](#). Q1, H Index 281, IF 4.272 , JCR, ISI
2. Gamma irradiation as a useful tool for the isolation of astaxanthin overproducing mutant strains of *Phaffia rhodozyma*, 2011, [*Canadian Journal of Microbiology*](#). Q2, H Index 80, IF 1.327, JCR, ISI
3. Impact of gamma rays on the *Phaffia rhodozyma* genome revealed by RAPD-PCR. Volume 3 Number 4 (December 2011) 216-221 [*Iranian Journal of Microbiology*](#). Q3, H Index 17, ISI, *Scopus*
4. The effect of gamma irradiation on astaxanthin synthetase encoding gene in two mutant strains of *Phaffia rhodozyma*. 2013. [*Iranian Journal of Microbiology*](#) . Q3, H Index 17, ISI, *Scopus*
5. Isolation of astaxanthin overproducing mutant of *Phaffia rhodozyma* JH-82. 2007. [*Modern Genetics Journal*](#). Q4, ISC
6. Phytoplanktons and DNA barcoding: Characterization and molecular analysis of phytoplanktons on the Persian Gulf, [*Iranian Journal of Microbiology*](#), Volume 6 Number 4 (August 2014) 296-302. Q3, H Index 17, ISI, *Scopus*
7. Identification of Chlorophyceae based on 18S rDNA sequences from Persian Gulf, [*Iranian Journal of Microbiology*](#), Volume 6 Number 6 (December 2014) 437-442. Q3, H Index 17, ISI, *Scopus*

8. Transformation and expression of *Penicillium funiculosum* glucose oxidase gene in yeast, [Iranian journal of genetics and plant breeding](#), Vol. 2, No. 1, (Spring and Summer 2013) 18-26. **Q1, ISC**
9. MED12 exon 2 mutations in uterine leiomyoma's in women patients of Tehran Province of Iran. [Journal of Pharmaceutical Sciences and Research](#) Vol. 7(12), (December 2015), 1099-1102. **Q3, H Index 18, Scopus**
10. Epidemiology of human papillomavirus (HPV) type 16 and 18 in patients with cervical cancer in Tehran. [Journal of Microbial World](#). Vol. 8, No. 4: 18- 19. (January 2016). **Q4, ISC**
11. Effects of *Bacillus* probiotic enzyme extract on growth and carcass biochemical composition of rainbow trout (*Oncorhynchus mykiss*) larvae. [Journal of Marine Science and Technology](#). Volume 15, Number 3 (**Autumn, 2016**). **Q3, ISC**
12. Variation in the interleukin-7receptor alpha gene rs6897932 In Fars Province of Iran multiple sclerosis patients, [Journal of Pharmaceutical Sciences and Research](#). Volume 8, Number 4 (September, 2015). **Q3, H Index 18, Scopus**
13. Molecular diagnosis of human papillomavirus (HPV) genotypes in Tehran City. [HIOAB JOURNAL](#). Volume 8, Number 4 (July - September, 2017). **Scopus**
14. Prevalence of mutation in BRCA1 gene, exons-2, 3, 5, 11 and exons-20 in breast cancer for early-onset detection in Tehran City. [Journal of Pharmaceutical Sciences and Research](#), (Vol. 9(9), 2017, 1433-1437). **Q3, H Index 18, Scopus**
15. Astaxanthin Effectiveness in Preventing of Multiple sclerosis. [BRATISLAVA MEDICAL JOURNA](#). 2018. **ISI**
16. The Effect of Soymilk on Alkaline Phosphatase, Total Antioxidant Levels, and Vasomotor Symptoms in Menopause Women. 2007. [Iranian Journal of Basic Medical Sciences](#). **ISI**

17. The reasons for the termination of pregnancies in the third trimester in Shahr-e-Kord's Hadjar hospital during 2005. Spring 2006. [Journal of Reproduction & Infertility](#). **Scopus**
18. Influence of probiotic yeast *Phaffia rhodozyma* on growth, survival and maturity of *Artemia urmiana*, Volume 3 Number 1, 2012. [ASIAN JOURNAL OF EXPERIMENTAL BIOLOGICAL SCIENCES](#). **CAB Abstract**
19. Determination of daidzein and genistein in Soy Milk in Iran by using HPLC Analysis Method. 2008. [Pakistan Journal of Biological Sciences](#).
20. Purification of astaxanthin from mutant of *Phaffia rhodozyma* JH-82 which Isolated from forests trees of Iran. 2007., [Pakistan Journal of Biological Sciences](#). **ISI**
21. Study of sugar beet cyst nematode life cycle using plant tissue culture method. 2007. [Pakistan Journal of Biological Sciences](#). **ISI**
22. Isolation of new isolate of micro-algae *Chlorella* sp. AI-25.... 2006. [Pakistan Journal of Biological Sciences](#). **ISI**
23. The effect of different concentrations of NaCl on the callus induction and Lipids of Soybean. 14(21): 75-77, (June) 2004. [Plant Tissue Culture](#). **Biological Abstract, BIOSIS**
24. Determination of the Amount of Protein and Amino Acids extracted from the Microbial Protein (SCP) of Lignocellulosic Wastes, 2010, [Pakistan Journal of Biological Sciences](#) **ISI**
25. Comparison of essential and non essential amino acids in the single cell protein (scp) of white rot fungi from wheat straw. 2011. [African Journal of Agricultural Research](#). DOI: 10.5897/AJAR11.830 . **CAB Abstract**
26. Prevalence of Low Birth Weight and its Related Factors in Shahr-e-Kord. 2008, [Journal of Reproduction & Infertility](#). **Scopus**
27. Single Cell Protein Production from Pretreatment Wheat Straw by *Pleurotus ostreatus* Var Florida in Solide-State Fermentation, [J. Appl. Environ. Biol. Sci.](#), 4(4)95-101, 2014. **CAB Abstract**
28. Comparison of Essential and Non-Essential Amino Acids in the Microbial Protein of *Pleurotus florida* from the Lignocellulosic Wastes, [Hormozgan Medical Journal](#), Vol. 17, No. 2. (June & July 2013), 113-120. **ISC**

29. Effectiveness of Lifestyle Modification Therapy on Weight Management, Body Image and Self-Esteem of Overweight Women, VOLUME 9, NUMBER 4, [IRANIAN JOURNAL OF DIABETES AND OBESITY](#), WINTER 2017, EBSCO, ISC
30. Study of the preventive and therapeutic effects of astaxanthin carotinoids on Multiple Sclerosis (MS) Disease in C57BL/6 Mice, [Journal of Cell & Tissue \(JCT\)](#), Autumn 2018; 9(3) ISC
31. [The effect of different levels of Bacillus probiotic extracellular enzymes on growth, nutrition and survival parameters of Rainbow trout *Oncorhynchus mykiss* \(Walbaum, 1792\) larvae. *Journal of Applied Ichthyological Research* 3 \(2\), 47-58. ISC](#)
32. Protective Role of ADA*2 Allel of the Adenosine Deaminase Gene Against recurrent spontaneous abortions in Iranian women, [Iranian Red Crescent Medical Journal](#), July 2019, 21(7), JCR, ISI
33. Prevalence of bacteriocin activities against *Staphylococcus aureus* in *Enterococcus faecalis* clinical isolated in Iran, [29th ECCMID, 2019](#)
34. Molecular study of mollusca in Bandar Lengeh using *18S rRNA* gene, [Iranian Journal of Genetics and Plant Breeding](#) , 2019, Vol. 8, No. 2. ISC
DOI: 10.30479/IJGPB.2020.12880.1267
35. Astaxanthin Protective Barrier and Its Ability to Improve Health in Coronavirus (Covid-19): A Review, [Iranian Journal of Microbiology](#), 2021, Volume 13 Number 4, 434-441. Q3, H Index 17, ISI, Scopus
36. Assessing the effect of Astaxanthin Phytochemical, Vitamin D3, Omega-3 and Vitamin E supplement on the severity of COVID-19 Symptoms of Patients with mild to Moderate Severity- a randomized double blind controlled Clinical Trial, *IRCT*; 2021-06-19 ID: ictrp-IRCT20140804018677N9, <http://en.irct.ir/trial/56509>
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/ictrp-IRCT20140804018677N9>
37. Nanocellulose-based aerogels decorated with Ag, CuO and ZnO nanoparticles: Synthesis, characterization and the antibacterial activity, [Polyhedron](#), 2022, [Volume 213](#), No. 1, 115629. Q2, H Index 97, ISI/JCR/Web of Science

Genes in the NCBI GenBank record

1. **Phaffia rhodozyma strain Gam2 mutant astaxanthin synthetase gene, partial cds .
EMBL/GenBank/DDBJ databases,**

ACCESSION NUMBER: [GU433200.1](#)

2. **Phaffia rhodozyma strain Gam1 mutant astaxanthin synthetase gene, partial cds .
EMBL/GenBank/DDBJ databases,**

ACCESSION NUMBER: [GU433199.1](#)

3. **Chlamydomonas sp. E RH-2012 18S ribosomal RNA gene**

GenBank, ACCESSION NUMBER: [JQ996419](#)

4. ***Neochloris aquatica* isolate D 18S ribosomal RNA gene**

GenBank, ACCESSION NUMBER: [JQ996418](#)

5. ***Caecitellus pseudoparvulus* isolate C 18S ribosomal RNA gene**

GenBank ACCESSION NUMBER: [JQ996417](#)

6. ***Rhodella maculata* isolate B 18S ribosomal RNA gene**

GenBank ACCESSION: [JQ996416](#)

7. ***Cochlodinium polykrikoides* isolate A 18S ribosomal RNA gene**

GenBank ACCESSION NUMBER: [JQ996415](#)

8. **Uncultured syndiniales voucher RH/Us8 18S ribosomal RNA gene,
partial sequence: [JX049355](#)**

9. *Isochrysis galbana* voucher RH/Ig3 18S ribosomal RNA gene, partial sequence. [JX049352](#)
10. Uncultured stramenopile voucher RH/Us10 18S ribosomal RNA gene, partial sequence. [JX049356](#)
11. *Chlorella sorokiniana* voucher RH/Chs4 18S ribosomal RNA gene, partial sequence. [JX049353](#)
12. *Amphora* sp. RH-2012 18S ribosomal RNA gene, partial sequence. [JX049354](#)
13. *Brachidontes variabilis* clone HA/BL1 18S ribosomal RNA gene.
GenBank ACCESSION: [KC904728.1](#)
14. *Pinctada albina* clone HA/BL2 18S ribosomal RNA gene.
GenBank ACCESSION: [KC904729.1](#)
15. *Planaxis sulcatus* clone HA/BL3 18S ribosomal RNA gene.
GenBank ACCESSION: [KC904730.1](#)
16. *Brachidontes variabilis* clone HA/BL4 18S ribosomal RNA gene.
GenBank ACCESSION: 1[KC904731.1](#)
17. *Brachidontes variabilis* clone HA/BL5 18S ribosomal RNA gene,
GenBank ACCESSION: 1[KC904732.1](#)
18. *Mya truncata* clone HA/BL6 18S ribosomal RNA gene, partial sequence.
GenBank ACCESSION: [KC904733.1](#)
19. *Batillaria zonalis* clone HA/BL7 18S ribosomal RNA gene, partial sequence.
GenBank ACCESSION: [KC904734.1](#)
20. *Serpulorbis imbricatus* clone HA/BL8 18S ribosomal RNA gene, partial sequence.
GenBank ACCESSION: [KC904735.1](#)
21. Uncultured eukaryote clone HA/BL9 18S ribosomal RNA gene, partial sequence.
GenBank ACCESSION: [KC904736.1](#)
22. *Planaxis sulcatus* clone HA/BL10 18S ribosomal RNA gene, partial sequence.
GenBank ACCESSION: [KC904737.1](#)
23. *Rhodella maculata* clone HA/EA111 18S ribosomal RNA gene, partial sequence
GenBank: [KC962164.1](#)

24. Uncultured eukaryote clone HA/EA4 18S ribosomal RNA gene, partial sequence

GenBank: [KC962163.1](#)

25. Uncultured eukaryote clone HA/EA3 18S ribosomal RNA gene, partial sequence

GenBank: [KC962162.1](#)

26. Uncultured eukaryote clone HA/EA15 18S ribosomal RNA gene, partial sequence

GenBank: [KC962161.1](#)

27. Uncultured marine picoeukaryote clone HA/EA 18S ribosomal RNA gene, partial sequence GenBank: [KC962160.1](#)

28. Uncultured eukaryote clone HA/EA9 18S ribosomal RNA gene, partial sequence

GenBank: [KC962159.1](#)

29. Human papillomavirus type 16 L1 protein-like gene, partial sequence

[GenBank: MG210368.1](#)

Published Books:

*Immunology Adaptive Immune system. 2020.

*Yeast Biotechnology, *In Press*. 2017.

*Truffle Cultivation, 2008, In Persian, Published By: Avaye Noor, Tehran,

*Molecular Medicine, *In Press*. 2020.

Activity on Scientific Societies:

*Editorial Board of Modern Genetics Journal, Iranian Genetics Society, 2006 -2010.

*Committee Member of Iranian Genetics Society, 2002-Now

*Member of Iranian Microbiology Society, 2000-Now

* Member of Iranian Biotechnology Society, 2000-Now

* Member of Australian Microbiology Society, 1994-1996.

Teaching Experience:

General Microbiology

Molecular Medicine

Bacteriology

Genetics

Biotechnology

Molecular Biology

Bioinformatics,

Genetics in medicine

Research Interests:

Genetic engineering of Bacteria and Yeast,

Medicinal Plant

Biomedical Sciences

Molecular Biology,

BEHAVIORAL GENETICS

Environmental Biotechnology

Medical & Microbial Biotechnology,

Cell and Tissue Culture