

Curriculum Vitae



I: Personal Data

Name: Saeed

Surname: Aminzadeh

Nationality: Iranian

Date of birth: 13 January 1975

Place of birth: Mashhad / Iran

Present position: Professor

II: Contact Information

Address: Bioprocess Engineering Research Group; Institute of Industrial and Environmental Biotechnology (IIEB), National Institute of Genetic Engineering and Biotechnology (NIGEB), Shahrak-e Pajoohesh Km 15, Tehran-Karaj Highway, Tehran-Iran.

P.O. Box: 14965/161

Tel: (+98) 21 44787412

Fax: (+98) 21 44787399

Email: aminzade@nigeb.ac.ir or aminzadeh.saeed@yahoo.com

Web page and links:

1. http://scholar.google.com/citations?hl=en&user=ewjpykAAAAJ&view_op=list_works&sort_by=pubdate
2. <https://orcid.org/0000-0001-7852-4523>
3. <https://www.webofscience.com/wos/author/record/P-5828-2018>
4. <https://www.sciencedirect.com/author/15845256800/saeed-aminzadeh>
5. <https://www.scopus.com/authid/detail.uri?authorId=15845256800&source=sd-apx>
6. <http://www.nigeb.ac.ir/web/en/industrial-and-environmental-biotechnology-iieb->
7. http://www.nigeb.ac.ir/web/en/fullcontent/-/asset_publisher/b0Ah9VHdp6OZ/content/faculty-members-iieb-
8. <http://www.nigeb.ac.ir/web/en/faculty-members-list>
9. <https://www.researchgate.net/profile/Saeed-Aminzadeh>
10. <https://www.linkedin.com/in/saeed-aminzadeh-73038a94/?originalSubdomain=ir>
11. <https://www.ijbio.ir/?lang=en>
12. <https://cell.ijbio.ir/?lang=en>
13. <https://armmt.irost.ir/>

III: Academic Qualification

1. **Diploma in natural science**, Mashhad, Iran 1992.
2. **B.Sc. in Biology** at Ferdowsi University of Mashhad, Iran 1993-97.
3. **M.Sc. in Biochemistry** at Tarbiat Modarres University, Tehran/Iran 1998-2000.
4. Educational qualification certificate, Tarbiat Modarres University, Tehran/Iran 2000.
5. **Ph.D in Biochemistry**, at Tarbiat Modarres University, Tehran/Iran 2001-2006.

IV: Dissertation

1. **M.Sc:** Genetic Variation Within and Among Rainbow Trout, *Onchorhynchus mykiss*, Hatchery Populations from Iran Assessed by PCR-RFLP Analysis of Mitochondrial DNA Segments.

2. **Ph.D:** Isolation, Purification and Biochemical Characterization of a Pectinase Produced from Native Microorganisms.

V: Position

1. **Secretary of Biotechnology Committee:** High-Tech center, Ministry of Industries and Mines (2001-2007).
2. **Takapouzi Technical supervisor (2007-2009).**
3. **Assistant Professor (2007):** R&D center, Pasteur Institute of Iran, Tehran, Iran.
4. **Assistant Professor (2008-2015):** Bioprocess Engineering Research Group; Institute of Industrial and Environmental Biotechnology (IIEB), National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran.
5. **Associate Professor (2015-2022):** Bioprocess Engineering Research Group; Institute of Industrial and Environmental Biotechnology (IIEB), National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran.
6. **Professor (2022):** Bioprocess Engineering Research Group; Institute of Industrial and Environmental Biotechnology (IIEB), National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran.
7. **Technical Supervisor & Quality Control Manager of Biochemical Diagnostic Kits and Hematology Solutions. Man Company (2011-2020).**
8. **Director of Biotechnology Development Center: (2017-2022).**
9. **Member of the expert committee of the research institute's inspection board (2021-2023).**
10. **Member of the committee for publication of scientific works (2020-2022).**
11. **Member of the executive committee for academic staff recruitment (2018-2021).**
12. **Director of Institute of Industrial and Environmental Biotechnology (IIEB): 2022- now**

VI: Production of commercialized products

1. Know-how of Anti-pollution Peptide Production (for face wash, shampoo, sunscreen cream), transferred to Zardband (cinere) Company.
2. Know-how of Blood Control Production (for hematology cell counters), transferred to Man Company.
3. Know-how of System Solution Production (for biochemistry auto-analysers), transferred to Man Company.

VII: Papers Published in Scientific Journals

1. R.H.Sajedi, **S. Aminzadeh** H.Naderimanesh, M.Sadeghizadeh, H.Abdolhay, M.Naderimanesh. Genetic Variation Within and Among Rainbow Trout, *Onchorhynchus mykiss*, Hatchery Populations from Iran Assessed by PCR-RFLP Analysis of Mitochondrial DNA Segments. **JOURNAL OF FOOD SCIENCE**. Vol. 28, 2003. <https://doi.org/10.1111/j.1365-2621.2003.tb08258.x>
2. **S. Aminzadeh**, H.Naderimanesh, K.Khajeh, M.Naderimanesh. Purification, Characterization, Kinetic Properties and Thermal Behavior of the Extracellular Polygalacturonase Produced by a Filamentous Fungus *Tetracoccusporium* sp. **Applied Biochemistry and Biotechnology**. Vol. 135, 2006. <https://link.springer.com/article/10.1385/ABAB:135:3:193>
3. **S. Aminzadeh**, H.Naderimanesh, K.Khajeh, M.R. Soudi. Isolation and Characterization of Polygalacturonase Produced by *Tetracoccusporium* sp. **Iranian Journal of Chemistry and Chemical Engineering**. Vol. 26, 2007. [10.30492/ijcce.2007.7837](https://doi.org/10.30492/ijcce.2007.7837)

4. **S. Aminzadeh**, H.Naderimanesh, K.Khajeh, B.Ranjbar, N. Farrokhi. Characterization of Acid-Induced Partially Folded Conformation Resembling a Molten Globule State of Polygalacturonase from a Filamentous Fungus *Tetracoccusporium* sp. **Applied Biochemistry and Biotechnology**. Vol. 160, 2010. <https://doi.org/10.1007/s12010-009-8723-8>
5. M. Zarei, **S. Aminzadeh***, H. Zolgharnein, A. Safahiye, A. Ghoroghi, A. Motallebi, M. Daliri, A.S. Lotfi. Chitinase Production by *Serratia marcescens* B4A: Parameters Optimization Using Taguchi Approach. **Iranian Journal of Biotechnology**. Vol. 8, 2010.
6. M. Zarei, **S. Aminzadeh***, H. Zolgharnein, A. Safahiye, M. Daliri, K. Akbari Noghabi, A. Ghoroghi, A. Motallebi. Characterization of a chitinase with antifungal activity from a native *Serratia marcescens* B4A. **Brazilian Journal of Microbiology**. (2011) 42: 1017-1029. https://www.ijbiotech.com/article_7099_8.html
7. O. Esmailipour, M. Shivazad, H. Moravej, **S. Aminzadeh**, M. Rezaeian and M. M. van Krimpen. Effects of Xylanase and Citric Acid on the Performance, Nutrient Retention, and Characteristics of Gastrointestinal Tract of Broilers Fed Low Phosphorus Wheat Based Diets. 2011 **Poultry Science** 90 :1975–1982. <https://doi.org/10.3382/ps.2010-01264>
8. S. Babashpour, **S. Aminzadeh***, N. Farrokhi, M. Khosroshahli, M. Keshvarz. Isolation and Cloning of Chitinase Gene from *Serratia marcescens* B4A from Shrimp Farming. **Journal of Veterinary Microbiology**, Islamic Azad University, Garmsar Branch. Vol 7, Issue 1, 2011, No 22.
9. The effects of non-starch polysaccharides content of wheat and xylanase supplementation on the intestinal amylase, aminopeptidase and lipase activities, ileal viscosity and fat digestibility in layer diet S. Mirzaei, M. Zaghari, **S. Aminzadeh***, M. Shivazad. **Iranian Journal of Biotechnology**. Vol. 10, No. 3, July 2012. https://www.ijbiotech.com/article_7172.html
10. S. Babashpour, **S. Aminzadeh***, N. Farrokhi, K. Haghbini, A. Karkhane. Characterization of a Chitinase (Chit62) from *Serratia marcescens* B4A and its efficacy as a bioshield against plant fungal pathogens. **Biochemical Genetics**. (2012) 50:722–735. <https://doi.org/10.1007/s10528-012-9515-3>
11. Effects of Diet Acidification and Xylanase Supplementation on Performance, Nutrient Digestibility, Duodenal Histology and Gut Microflora of Broilers Fed Wheat Based Diet. O. Esmailipour, H. Moravej, M. Shivazad, M. Rezaian, **S. Aminzadeh**, M. M. Vankrimpen. **British Poultry Science**. Volume 53, Number 2 (April 2012), pp. 235–244. <https://doi.org/10.1080/00071668.2012.681771>
12. Effects of wheat inclusion and xylanase supplementation of the diet on productive performance, nutrient retention, and endogenous intestinal enzyme activity of laying hens. S. Mirzaie, M. Zaghari, **S. Aminzadeh**, M. Shivazad, and G. G. Mateos. **Poultry Science**. 2012; 91 :413–425. <https://doi.org/10.3382/ps.2011-01686>
13. Characterization of the newly isolated *Geobacillus* sp. T1, the efficient cellulase-producer on untreated barley and wheat straws. Assareh, R., Shahbani Zahiri, H., Akbari Noghabi, K., **Aminzadeh, S.**, Bakhshi khaniki, G. **Bioresource Technology**. Volume 120, September 2012, Pages 99-105. <https://doi.org/10.1016/j.biortech.2012.06.027>
14. Culture optimization, purification and evaluation of antifungal activity of thermophilic bacteria *Cohnella* A01. Naghmeh Abiri, **Saeed Aminzadeh***,

- Mohammad Reza Bihamta. **Genetic Engineering and Biosafety Journal**. Volume 1, Issue 1, pages: 15-22. (2012).
15. Chitinase Isolated from Water and Soil Bacteria in Shrimp farming Ponds. Mandana Z, **Aminzadeh S.***, Ghoroghi A., Motalebi A.A., Alikhaje J., Daliri M. Chitinase Isolated from Water and Soil Bacteria in Shrimp farming Ponds. **Iranian Journal of Fisheries Sciences**. 2012, 11(4) 911-925. [20.1001.1.15622916.2012.11.4.17.9](https://doi.org/10.15622916.2012.11.4.17.9)
 16. Structural comparison between collagen isolated from sea cucumber *Holothuria parva* and calf skin collagen Type I. Adibzadeh, N., **Aminzadeh, S.***, Jamili, S.3 Mostafavi, P. **New Cellular and Molecular Biotechnology Journal**. Volume 2, Number 6 (6-2012). [20.1001.1.22285458.1391.2.6.7.2](https://doi.org/10.22285458.1391.2.6.7.2)
 17. Dietary fibers and crude protein content alleviate hepatic fat deposition and obesity in broiler breeder hens. M. Mohiti-Asli, M. Shivazad, M. Zaghari, **S. Aminzadeh**, M. Rezaian, and G.G. Mateos. 2012 **Poultry Science** 91: 3107–3114. <https://doi.org/10.3382/ps.2011-02040>
 18. Effects of feeding regimen, fiber inclusion, and crude protein content of the diet on performance and egg quality and hatchability of eggs of broiler breeder hens. M. Mohiti-Asli, M. Shivazad, M. Zaghari, M. Rezaian, **S. Aminzadeh**, and G. G. Mateos. 2012 **Poultry Science** 91: 3097–3106. <https://doi.org/10.3382/ps.2012-02282>
 19. In Silico and Experimental Characterization of Chimeric *Bacillus thermocatenulatus* Lipase with the Complete Conserved Pentapeptide of *Candida rugosa* Lipase. Hosseini, M., Karkhane, A.A., Yakhchali, B., Shamsara, M., **Aminzadeh, S.**, Morshedi, D., Haghbeen, K., Torktaz, I., Karimi, E., Safari, Z. **Applied Biochemistry and Biotechnology**. (2013) 169:773–785. <https://doi.org/10.1007/s12010-012-0014-0>
 20. Physicochemical study of a novel chimeric chitinase with enhanced binding ability. S. Matroodi, M. Zamani, K. Haghbeen, M. Motalebi, and **S. Aminzadeh**. **Acta Biochim Biophys Sin** (Shanghai). 2013 Oct;45(10):845-56. <https://doi.org/10.1093/abbs/gmt089>
 21. Product optimization, purification and characterization of a novel polygalacturonase produced by *Macrophomina phaseolina*. **S. Aminzadeh**, N. Farrokhi. **Biological Journal of Microorganism** 1st Year, Vol. 1, No. 4, Winter 2013. https://bjm.ui.ac.ir/mobile/article_19490.html?lang=en
 22. Study of the effect of F17A mutation on characteristics of *Bacillus thermocatenulatus* lipase expressed in pichia pastoris using *in silico* and experimental methods. E. Karimi, A.A. Karkhane, B. Yakhchali, M. Shamsara, **S. Aminzadeh**, I. Torktaz, M. Hosseini, Z. Safari. **Biotechnology and Applied Biochemistry**. DOI: 10.1002/bab.1164. 2014. <https://doi.org/10.1002/bab.1164>
 23. S. Mirzayi, M. Zaghari, **S. Aminzadeh***, M. Shivazad. The effect of the non-starch polysaccharides levels on intestinal enzyme activity and performance of laying hens. **Journal of Cellular and Molecular Researches** (Iranian Journal of Biology). Volume 26, Issue 4. Pages: 562-571, 2014. [20.1001.1.23832738.1392.26.4.14.1](https://doi.org/10.23832738.1392.26.4.14.1)
 24. Purification and characterization of pepsin solubilized collagen from skin of sea cucumber *Holothuria parva*. N. Adibzadeh, **S. Aminzadeh***, S. Jamili, A. A. Karkhane, N. Farrokhi. **Applied Biochemistry and Biotechnology**. 173:143–154. 2014. <https://doi.org/10.1007/s12010-014-0823-4>
 25. Evaluation of Gene Expression Changes of Serotonin Receptors, 5-HT3AR and 5-HT2AR as Main Stress Factors in Breast Cancer Patients. Seyed Hesam

- Hejazi, Ghasem Ahangari, Majid Pornour, Abdolkhaleagh Deezagi, **Saeed Aminzadeh**, Hamid Reza Ahmadkhaniha, Mohamad Esmail Akbari. **Asian Pac J Cancer Prev**, 15 (11), 4455-4458. 2014.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-84903722481&doi=10.7314%2fAPJCP.2014.15.11.4455&origin=inward&txGid=ebe147e2751829aaecd4b3fa35e2e630>
26. Protein Engineering of *Bacillus thermocatenulatus* Lipase via Deletion of the $\alpha 5$ Helix. Nastaran Goodarzi & Ali Asghar Karkhane & Aghafakhr Mirlohi & Fatemeh Tabandeh & Ibrahim Torktas & **Saeed Aminzadeh** & Bagher Yakhchali & Mehdi Shamsara & Mozhdah Al-Sadat Ghafouri. (2014) **Applied Biochemistry and Biotechnology**. 174:339–351. DOI 10.1007/s12010-014-1063-3. <https://doi.org/10.1007/s12010-014-1063-3>
 27. Isolation and identification of the first indigenous bacterial strain against *Xanthomonas citri* subsp. *citri* causal agent of citrus canker disease. Dariush Gholami, **Saeed Aminzadeh***, Syed Mehdi Alavi, Tannaz Goodarzi, Nasrin Kazemipour, Jafar Valizadeh. **Journal of Cellular and Molecular Researches** 27 (1) 111-118. 2014.
https://cell.ijbio.ir/?_action=articleInfo&article=313&lang=fa&lang=en
 28. Identification and studying of Enterobacter sp. DGH3 antibacterial activity. Dariush Gholami, **Saeed Aminzadeh***, Syed Mehdi Alavi, Nasrin Kazemipour, Jafar Valizadeh, Tannaz Goodarzi. **Journal of Cellular and Molecular Researches** 27 (2) 269-276. 2014. [20.1001.1.23832738.1393.27.2.11.1](https://doi.org/10.1001.1.23832738.1393.27.2.11.1)
 29. Biocontrol of Causative Agent of Citrus Canker Disease Using Antimicrobial Substances Produced by *Aspergillus awamori* K-03. Sara Kazemzadeh, Naser Farrokhi, **Saeed Aminzadeh**, Seyed Mehdi Alavi, Abolfazl Masoudi, Mojtaba Mamarabadi, Tannaz Gudarzi. **Biological Journal of Microorganism**. 3rd Year, No. 11, 91-99. Autumn 2014. https://bjm.ui.ac.ir/article_19533.html?lang=en
 30. Cloning, expression, purification, and characterization of lipase 3646 from thermophilic indigenous *Cohnella* sp. A01. Bahram pooreydy Golaki, **Saeed Aminzadeh***, Ali Asghar Karkhane, Parisa Farrokhi, Seyed Hossein Khaleghinejad, Asal Akhavian Tehrani, Sina Mehrpooyan. (2015) **Protein expression and purification**. 109: 120–126.
<https://doi.org/10.1016/j.pep.2014.10.002>
 31. Effects of feeding strategy on reproductive performance and ovarian morphology of broiler breeder hens. Maziar Mohiti-Asli, Mahmoud Shivazad, Mojtaba Zaghari, Maryam Rezaian, and **Saeed Aminzadeh***. (2014) **Journal of Cellular and Molecular Researches** 27 (3) 418-427.
[20.1001.1.23832738.1393.27.3.10.2](https://doi.org/10.1001.1.23832738.1393.27.3.10.2)
 32. Significant Association between Catechol Amine O-Methyl Transferase (COMT) Gene Expression Changes and Breast Cancer Pathogenesis. Ghasem Ahangari, Majid Pornour, **Saeed Aminzadeh**, Hossein Bakhtou and Hamid Reza Ahmadkhaniha. (2015) **Carcinogenesis & Mutagenesis**. Volume 6. Issue 2. <http://dx.doi.org/10.4172/2157-2518.1000219>
 33. Cloning, expression and characterization of chimeric *Bacillus Thermocatenulatus* Lipase in *E.coli*. Khaleghinejad S.H, Karkhane A.A, Motalleb G.R, **Aminzadeh S**, Yakhchali B2, Pooreydy B. **Journal of Cellular and Molecular Researches**. 2015, Volume 28, Issue 2, 202-210.
 34. Study of active site adjacent residues on *Serratia marcescens* B4A chitinase catalytic activity. Emruzi Tubkanlu Z., **Aminzadeh S.***, Karkhane A.A.,

- Alikhajeh J. **Journal of Cellular and Molecular Researches**. 2015, Volume 28, Issue 3. [20.1001.1.23832738.1394.28.3.1.0](https://doi.org/10.1001.1.23832738.1394.28.3.1.0)
35. The Effect of pH on Globular State of Lipase-3646; an Appropriate Model for Molten Globule Investigations. Bahram Pooreydy Golaki, **Saeed Aminzadeh***, Ali Asghar Karkhane, Bagher Yakhchali, Parisa Farrokhi, Ferdous Rastgar Jazii, Mohammadsadegh Nadimifar. **The Protein Journal**. <https://doi.org/10.1007/s10930-015-9622-1>
 36. A Nested-Splicing by Overlap Extension PCR Improves Specificity of this Standard Method. AA Karkhane, B Yakhchali, F Rastgar Jazii, B Bambai, **S Aminzadeh, Iranian Journal of Biotechnology**. Volume 13, Issue 2, Spring 2015, Page 56-59. <https://doi.org/10.15171/ijb.1090>
 37. Bacterial secretome analysis in hunt for novel bacteriocins with ability to control *Xanthomonas citri* subsp. *Citri*. D Gholami; T Goodarzi; **S Aminzadeh***; SM Alavi; N Kazemipour; N Farrokhi, *Iranian Journal of Biotechnology*. **Iranian Journal of Biotechnology**. 2015 September;13(3): e1123. <https://doi.org/10.15171/ijb.1123>
 38. Toward the development of a single-round infection assay based on EGFP reporting for anti-HIV-1 drug discovery. Mahdiah Soezi, Arash Memarnejadian, **Saeed Aminzadeh**, Rezvan Zabihollahi, Seyed Mehdi Sadat, Safieh Amini, Soheila Hekmat, Mohammad Reza Aghasadeghi. **Reports of Biochemistry & Molecular Biology** Vol.4, No.1, Oct 2015. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4757091/>
 39. *Trichoderma harzianum* secretome and its efficacy in biocontrol. Kazemzadeh S., Farrokhi N., **Aminzadeh S.**, Alavi S.M., Sarpele A., Mamarabadi M. **Journal of Cellular and Molecular Researches**. 2015, Volume 28, Issue 1, 107-114. [20.1001.1.23832738.1394.28.1.11.6](https://doi.org/10.1001.1.23832738.1394.28.1.11.6)
 40. Thermostable chitinase from *Cohnella* sp. A01: isolation and product optimization. Aliabadi, N. **Aminzadeh, S***. Karkhane, A. A., Haghbin, K. **Brazilian Journal of Microbiology**, 2016. 47, 931–940. <http://dx.doi.org/10.1016/j.bjm.2016.07.009>.
 41. Extraction of a polygalacturonase from *Macrophomona phaseolina* and analysis of its stability. E Fahimi Bayrami, N Farrokhi, **S Aminzadeh*** **Journal of Cellular and Molecular Researches**; 2016, 29 (2), 252-268. [20.1001.1.23832738.1395.29.2.9.3](https://doi.org/10.1001.1.23832738.1395.29.2.9.3)
 42. Study the effect of F17S mutation on the chimeric *bacillus thermocatenulatus* lipase. Khaleghizejad, H. Motalleb, G., Karkhane, A. A., **Aminzadeh, S.** Yakhchali, B. **Journal of Genetic Engineering and Biotechnology**, 2016, 14 (1), 83-89. <https://doi.org/10.1016/j.jgeb.2016.08.002>
 43. Optimization of culture condition of *Enterobacter* ZS extra cellular cyanide degrading enzyme with Response Surface Methodology. Z Javaheri Safa, **S Aminzadeh***, MR Zamani, M Motalebi **Journal of Cellular and Molecular Researches**, 2016, 29 (3), 265-272. [20.1001.1.23832738.1395.29.3.3.9](https://doi.org/10.1001.1.23832738.1395.29.3.3.9)
 44. Optimization of simultaneous production of tyrosinase and laccase by *Neurospora crassa*. S. Moshtaghiuni, M. Dadkhah, K. Bahremandjo, K. Haghbeen, **S. Aminzadeh & R. L. Legge. Biocatalysis and Biotransformation**, 2017. <https://doi.org/10.1080/10242422.2016.1266617>
 45. *Cohnella* amylopullulanases: Biochemical characterization of two recombinant thermophilic enzymes. FZ Roodi, **S Aminzadeh***, N Farrokhi, AA Karkhane, K Haghbeen. **PloS one**. 2017. 12 (4), e0175013. <https://doi.org/10.1371/journal.pone.0175013>

46. Evaluation of oxidative enzymes for efficient oxidation of aniline and phenolic pollutants. F. Mirazizi, A. Bahrami, S. Soleimani Asl, A. Zaribafan, K. Haghbeen, **S. Aminzadeh**. **International Journal of Environmental Science and Technology**. First Online: 07 August 2017. <https://doi.org/10.1007/s13762-017-1493-x>
47. Significant increase in cyanide degradation by *Bacillus* sp. M01 PTCC 1908 with response surface methodology optimization. ZJ Safa, **S Aminzadeh***, M Zamani, M Motallebi, **AMB Express**, 2017, 7 (1), 200. <https://doi.org/10.1186/s13568-017-0502-2>
48. Effect of Pectinase and Dried Citrus Pulp on Performance, Nutrient Digestibility and Intestinal Characteristics of Broiler Chickens. Z Niknafs Dehghani, O Esmaeilipour, R Mirmahmoudi, **S Aminzadeh**. **Research on Animal Production**, 2017 8 (16), 21-28. [10.29252/rap.8.16.21](https://doi.org/10.29252/rap.8.16.21)
49. Recombinant Chitinase produced from a thermophilic *Paenibacillus* sp. A01. M Motazavi, **S Aminzadeh***, A Ghanbari, N Farrokhi, A Karkhane. **Journal of Cellular and Molecular Researches**, 2017, 30 (2), 182-190. [20.1001.1.23832738.1396.30.2.8.9](https://doi.org/10.1001.1.23832738.1396.30.2.8.9)
50. Protective or Deteriorative Effect of Zinc Ions on Protein Misfolding: A New Insight into Amyloidogenic Disease. S Noorzadeh, MR Dayer, **S Aminzadeh**. **Jentashapir Journal of Health Research**, 2017 ; 8(4):e64461. [doi: 10.5812/jjhr.64461](https://doi.org/10.5812/jjhr.64461).
51. Biochemical Characterization of Recombinant Thermostable *Cohnella* sp. A01 β -Glucanase. M Rezaie, **S Aminzadeh***, F Heidari, M Mashhadi Akbar Boojar. **Iranian biomedical journal**, 2018 Sep; 22(5): 345–354. doi: [10.29252/ibj.22.5.345](https://doi.org/10.29252/ibj.22.5.345)
52. Comparison of antibiotics and bacteriocins antibacterial activity on *Xanthomonas citri subsp.citri*. Gholami D; **Aminzadeh S***; Alavi S. M.; Kazemipour N; Ghoroghi A.; Emrouzi Z. **Iranian Journal of Fisheries Sciences**. 2018, 17 (1), 162-178. <https://doi.org/10.22092/ijfs.2018.115592>
53. Heterologous expression and characterization of a recombinant thermostable amylopullulanases Coh4159 from *Cohnella* sp. A01. P Valiulahi, **S Aminzadeh***, M Shamsara, N Farrokhi, J Alikhajeh. **Advanced Researches in Microbial Metabolites & Technology**. 2018, 1, 31-38. [10.22104/armmt.2018.2738.1014](https://doi.org/10.22104/armmt.2018.2738.1014)
54. Improving the thermostability of *Serratia marcescens* B4A chitinase via G191V site-directed mutagenesis. Z Emruzi, **S Aminzadeh***, AA Karkhanea, J Alikhajeh, K Haghbeen, D Gholami. **International Journal of Biological Macromolecules**. 2018, Volume 116, Pages 64-70. <https://doi.org/10.1016/j.ijbiomac.2018.05.014>
55. Comparison the energy value of processed and non-processed soybean meal for broiler breeder hens, broiler chickens and commercial layer hens. N Zahroojian, H Moravej, S Zaghari, Mojtaba, **Aminzadeh**. **Iranian Journal of Animal Science** 2018, 49 (2), 335-342. <https://www.cabdirect.org/cabdirect/abstract/20183343291>
56. Hyaluronic acid production enhancement via genetically modification and culture medium optimization in *Lactobacillus acidophilus*. F Fotouhi Chahuki, **S Aminzadeh***, V Jafarian, F Tabandeh. 2019, **International Journal of Biological Macromolecules** 121, 870-881. <https://doi.org/10.1016/j.ijbiomac.2018.10.112>

57. Screening of HA-producing lactic acid bacteria and culture condition optimization of selected bacterium by Taguchi method. F Fotouhi Chahuki, **S Aminzadeh***, V Jafarian, F Tabandeh. 2019, **Journal of Molecular and Cellular Research** 31 (4), 598-611. https://cell.ijbio.ir/m/article_1449.html?lang=en
58. *Serratia marcescens* B4A chitinase thermostability enhancement by S390I QuikChange site directed mutagenesis. Z Emruzi Tubkanlu, **S Aminzadeh***, AA Karkhane, J Alikhajeh, A Ghoroghi. 2019, **Iranian Journal of Fisheries Sciences** 18 (4), 1046-1059. <http://hdl.handle.net/1834/16363>
59. Comparative Investigation of the Effect of Quercetin and Hydroalcoholic Extract of *Otostegia Persica Boiss* with Atorvastatin on ABC A1 Gene Expression in Hypercholesterolemic Male Wistar Rats. A Parvin, P Yaghmaei, M Nouredini, SA Haeri Roohani, **S Aminzadeh**. 2019, **Journal of Arak University of Medical Sciences** 22 (1), 27-38. http://jams.arakmu.ac.ir/browse.php?a_id=5799&sid=1&slc_lang=fa&ftxt=1
60. Comparative effects of quercetin and hydroalcoholic extract of *Otostegia persica boiss* with atorvastatin on atherosclerosis complication in male wistar rats. A Parvin, P Yaghmaei, M Nouredini, SA Haeri Roohani, **S Aminzadeh** . 2019, **Food Science & Nutrition**. <https://doi.org/10.1002/fsn3.1136>
61. *Cohnella* sp. A01 laccase: thermostable, detergent resistant, anti-environmental and industrial pollutants enzyme. M Shafiei, F Afzali, AA Karkhane, SM Ebrahimi, K Haghbeen, **S Aminzadeh***. 2019, **Heliyon** 5 (9). <https://doi.org/10.1016/j.heliyon.2019.e02543>
62. Advances in bacterial identification and characterization: methods and applications. D Gholami, Z Emruzi, AR Noori, **S Aminzadeh***. 2019, **Advanced Research in Microbial Metabolites and Technology** 2 (2), 119-136. [10.22104/armmt.2020.4319.1044](https://doi.org/10.22104/armmt.2020.4319.1044)
63. Novel halo- and thermo-tolerant *Cohnella* sp. A01 L-glutaminase: heterologous expression and biochemical characterization. S Mosallatpour, **S Aminzadeh***, M Shamsara, R Hajihosseini. 2019, **Scientific Reports** 9, 19062. <https://doi.org/10.1038/s41598-019-55587-9>
64. A new sensitive spectrophotometric method for determination of saliva and blood glucose. P Mohammadnejad, SS Asl, **S Aminzadeh**, K Haghbeen. 2020. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 229, 117897. <https://doi.org/10.1016/j.saa.2019.117897>
65. Serum levels of malondialdehyde, glutathione peroxidase and superoxide dismutase in patients with non-Hodgkin's lymphoma in Zahedan. H Hoseini, P Yaghmaei, G Bahari, **S Aminzadeh**. 2020, **Food & Health** 3 (2), 15-19. https://fh.srbiau.ac.ir/article_16029_477961b0e6c7b4bc959015ebac06074f.pdf
66. Structural and biochemical characterization of a novel thermophilic Coh01147 protease. Hossein Tarrahimofrad, Amir Meimandipour, Sareh Arjmand, Mohammadtaghi Beigi Nassiri, Ehsan Jahangirian, Hossein Tavana, Javad Zamani, Somayyeh Rahimnahl, **Saeed Aminzadeh**. 2020, **PloS one** 15 (6), e0234958. <https://doi.org/10.1371/journal.pone.0234958>
67. Kinetic and Thermo-Inactivation Thermodynamic Parameters of a Novel Isolated *Serratia Marcescens* B4A Chitinase. Z Emruzi, M Keshavarz, D Gholami, **S Aminzadeh***, AR Noori. 2020, **Biomacromolecular Journal** 6 (1), 46-55. https://www.bmmj.org/article_244013.html

68. Correlations of PD-1/PD-L1 Gene Polymorphisms with Susceptibility and Prognosis in Non-Hodgkin's Lymphoma among Iranian Population. H Hoseini, P Yaghmaei, G Bahari, **S Aminzadeh**. 2020, **Iranian Red Crescent Medical Journal** 22 (11), 7. <https://doi.org/10.32592/ircmj.2020.22.11.194>
69. Preparation, purification, and characterization of low-molecular-weight hyaluronic acid. Mohammad Karami, Mahvash Khodabandeh Shahraky, Masume Ranjbar, Fatemeh Tabandeh, Dina Morshedi, **Saeed Aminzadeh**. 2020, **Biotechnology Letters**. <https://doi.org/10.1007/s10529-020-03035-4>
70. Assessment of Biomarkers of Oxidative Stress among Patients with Lymphoma. H Hoseini, P Yaghmaei, G Bahari, **S Aminzadeh**. 2021, **Journal of Chemical Health Risks** 11. <https://doi.org/10.22034/jchr.2021.1916955.1228>
71. *Cohnella* 1759 cysteine protease shows significant long term half-life and impressive increased activity in presence of some chemical reagents. R Saghian, E Mokhtari, **S Aminzadeh***. 2021, **Scientific reports** 11 (1), 1-18. <https://doi.org/10.1038/s41598-021-84267-w>
72. Heterologous Expression, Purification and Determination of Activity of new Carboxypeptidase from *Cohnella* A01. Seyed Mahdi Naeemi, **Saeed Aminzadeh***, Soyar Sari, Fahimeh Nemati, Maryam Naseroleslami. 2021, **New Cellular and Molecular Biotechnology Journal**, Volume 11, Issue 42 (3-2021). [20.1001.1.22285458.1400.11.42.6.6](https://doi.org/10.22285/458.1400.11.42.6.6)
73. Optimization of hyaluronic acid by *Streptococcus zooepidemicus* ATCC 43070 by response surface methodology. F Tabandeh, M Samadi, M Khodabandeh, **S Aminzadeh**. Modares Journal of Biotechnology, 2021; 12 (3), 99-110. [20.1001.1.23222115.1400.12.3.3.3](https://doi.org/10.23222/115.1400.12.3.3.3)
74. A potent peroxidase from solid cell culture of *Ocimum basilicum* with high sensitivity for blood glucose determination. P Mohammadnejad, S Soleimani Asl, Z Rasoulia, **S Aminzadeh**. 2021, **Plant Cell, Tissue and Organ Culture** (PCTOC) 146 (2), 375-386. <https://doi.org/10.1007/s11240-021-02076-5>
75. Identification, heterologous expression and biochemical characterization of a novel cellulase-free xylanase B from the thermophilic bacterium *Cohnella* sp. A01. Hemad Rahimian Gavaserai, Raheleh Hasanadeh, Moslem Afsharnezhad, Ali Foroutan Kalurazi, S Shirin Shahangian, Mahmoud Reza Aghamaali, **Saeed Aminzadeh**. 2021, **Process Biochemistry** 107, 48-58. <https://doi.org/10.1016/j.procbio.2021.05.002>
76. Biodegradation of cyanide to ammonia and carbon dioxide by an industrially valuable enzyme from the newly isolated *Enterobacter* zs. Zohre Javaheri Safaa, Arta Olya, Mohammadreza Zamani, Mostafa Motalebi, Rahimeh Khalilia, Kamahldin Haghbeen, **Aminzadeh Saeed***. 2021, **Journal of Environmental Science and Health, Part A**. <https://doi.org/10.1080/10934529.2021.1967653>
77. Thermophilic iron containing type superoxide dismutase from *Cohnella* sp. A01. Zahra Karimi MazraehShahi, Zeinab Takalloob, Jahangir Mohamadzadeh, Reza H.Sajedi, Kamahldin Haghbeen, **Saeed Aminzadeh***. 2021, **International Journal of Biological Macromolecules** 187, 373-385. <https://doi.org/10.1016/j.ijbiomac.2021.07.150>
78. New Insight into the Interactions of Arbutin with Mushroom Tyrosinase. NS Ghofrani, M Sheikhi, JZ Amirzakaria, S Hassani, **S Aminzadeh**. 2021, **The protein journal** 40 (5), 689-698. <https://doi.org/10.1007/s10930-021-10004-x>
79. Designing a multi-epitope vaccine to provoke the robust immune response against influenza A H7N9. H Tarrahimofrad, S Rahimnahal, J Zamani, E

- Jahangirian, S **Aminzadeh***. 2021, **Scientific reports** 11 (1), 1-22.
<https://doi.org/10.1038/s41598-021-03932-2>
80. Simultaneous refolding and purification of MO-CBP2 IBs using urea gradient. F Velayatipor, S **Aminzadeh***, SA Angaji, F Fotouhi Chahuki, M Ghollasi. 2022, **Cellular and Molecular Research** 34 (4), 515-525.
[20.1001.1.23832738.1400.34.4.10.3](https://doi.org/10.1001.1.23832738.1400.34.4.10.3)
 81. Enhanced hyaluronic acid production in *Streptococcus zooepidemicus* by an optimized culture medium containing hyaluronidase inhibitor. M Samadi, M Khodabandeh Shahraky, F Tabandeh, S **Aminzadeh**. 2022, **Preparative Biochemistry & Biotechnology** 52 (4), 413-423.
<https://doi.org/10.1080/10826068.2021.1955710>
 82. Cytoplasmic soluble Lispro insulin production in *Escherichia coli*, product yield optimization and physiochemical characterization. AB Khalilvand, S **Aminzadeh***, MH Sanati, F Mahboudi. 2022, **Biochemical Engineering Journal** 182, 108410. <https://doi.org/10.1016/j.bej.2022.108410>
 83. Media optimization for SHuffle T7 *Escherichia coli* expressing SUMO-Lispro proinsulin by response surface methodology. AB Khalilvand, S **Aminzadeh***, MH Sanati, F Mahboudi. **BMC biotechnology** 2022, 22 (1), 1-13.
<https://doi.org/10.1186/s12896-021-00732-4>
 84. An Overview of Emerging Cyanide Bioremediation Methods. Narges Malmir, Najaf Allahyari Fard, **Saeed Aminzadeh**, Zahra Moghaddassi-Jahromi, Lukhanyo Mekuto. **Processes**. 2022, 10(9), 1724;
<https://doi.org/10.3390/pr10091724>.
 85. Expression, characterization, and activity optimization of a novel cellulase from the thermophilic bacteria *Cohnella* sp. A01. Shima Mohammadi, Hossein Tarrahimofrad, Sareh Arjmand, Javad Zamani, Kamahldin Haghbeen, **Saeed Aminzadeh***. 2022, **Scientific Reports** 12 (1), 10301.
<https://doi.org/10.1038/s41598-022-14651-7>
 86. In vitro and in silico characterization of a novel glutamate carboxypeptidase from *Cohnella* sp. A01. SM Naeemi, S **Aminzadeh***, S Sari, F Nemati, M Naseroleslami. 2023 **Biochimie** 207, 83-95.
<https://doi.org/10.1016/j.biochi.2022.12.003>
 87. Generation of specific antibody against recombinant major coat protein of Beet necrotic yellow vein virus and its application for detection of rhizomania disease. M Karimzade, MR Safarnejad, S **Aminzadeh**, H Kazemzadeh-Beneh. 2023, **Archives of Phytopathology and Plant Protection**. Volume 56, 2023 - Issue 1. <https://doi.org/10.1080/03235408.2023.2170205>
 88. Enzymatic remediation of water resources by a durable and potent peroxidase from the cell culture of *Origanum vulgare*. M Golbabaie, A Khosronejad, A Abbasi Baharanchi, M J Marefatjoo, A Shahrjerdi, S **Aminzadeh**, K Haghbeen. **Journal of Cleaner Production**. Volume 406, 2023.
<https://doi.org/10.1016/j.jclepro.2023.137126>
 89. Enhancing the thermostability of Cellulase from *Clostridium thermocellum* via salt bridge interactions. A. A. Karkhane, S **Aminzadeh**. **Biotechnology and Bioprocess Engineering**.
<https://doi.org/10.1007/s12257-023-0049-9>
 90. In silico and experimental studies on the effect of $\alpha 3$ and $\alpha 5$ deletion on the biochemical properties of *Bacillus thermocatenuatus* lipase. Ali A. A. Karkhane; S **Aminzadeh**. *Molecular Biotechnology*. Article in press.

VIII: Papers Published in Scientific Promotion Journals

1. The role of miRNAs in detection and treatment of multiple sclerosis (MS). Mahdokht Eilbayg, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2015, 117, 40-44.
2. Investigate the genes involved in the afflictions of the retinoblastoma (Rb). Parisa Babrahmati, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2015, 116, 15-17.
3. Relationship between smoking and disorders genetics and epigenetic and lung cancer. Fereshteh Moheb-afzali, **Saeed Aminzadeh**. **DNA alzahra-magazine**, 2105, 3-7.
4. Regulatory T cell: an overview. Soheila Mansoori, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2015, 117, 45-47.
5. Application of magnetic nano-fluid in targeted drug delivery in cancer treatment. Sadaf Bondar, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2015, 118, 29-31.
6. Steroid hormone receptor status and its impact on breast cancer prognosis. Faezeh Kholousi-Adab, **Saeed Aminzadeh**. **DNA alzahra-magazine**, 2015, 10-14.
7. Hemoglobin A1c an Overview. Anita Ahmadi, **Saeed Aminzadeh**, Maryam Amirjalali. **Laboratory Diagnosis**, 2015, 116, 26-31.
8. Urine Microalbumin. Anita Ahmadi, **Saeed Aminzadeh**, Maryam Amirjalali. **Laboratory Diagnosis**, 2016, 120, 44-45.
9. Telomeres, telomerase and their relationship with cancer and aging. Parima Safarpour, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2016, 122, 42-43.
10. Cancer immunotherapy. Parima Safarpour, **Saeed Aminzadeh**. **Laboratory Diagnosis**, 2016, 122, 38-39.
11. Liver function tests. Anita Ahmadi, **Saeed Aminzadeh**, Maryam Amirjalali. **Laboratory Diagnosis**, 2016, 126, 43-45.
12. Application of hyaluronic acid in medicine. F Fotuhi, **S Aminzadeh**, F Tabandeh, V Jafariyan. **Laboratory Diagnosis**, 2016, 129, 22-23
13. Sequencing the DNA of all life on Earth. M Shafiei Darabi, **S Aminzadeh** **Iranian Journal of Biology** (Biological Science Promotion) 2017, 1 (1), 91-93.
14. Mycoplasma Hominis in men and women infertility. J Khosravai Babadi, **S Aminzadeh**. 2017 **Laboratory Diagnostics** 142, 30-31.
15. The role of hyaluronan in cancer development. F Fotouhi, **S Aminzadeh***, V Jafariyan, F Tabandeh, M Khodabandeh. **Laboratory Diagnosis**, 2017, 141, 21-23.
16. The Therapeutic Potential of Snake Poison in the Treatment of Cancer. N Saedi, **S Aminzadeh**. **Laboratory Diagnosis**. 2018, 145, 29-33.
17. Alzheimer; Destruction of brain cells in absolute silence. D Taabodi, **S Aminzadeh**. **Laboratory Diagnosis**. 2018, 147, 30-33.
18. Microbial fuel cell. N MohammadPour, **S Aminzadeh**, 2019. **Iranian Journal of Biology** 3 (5), 84-88.
https://www.ijbio.ir/article_1830.html?lang=en
19. Human Microbiome. N MohammadPour, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 3 (6), 89-97.
https://www.ijbio.ir/article_1844.html?lang=en
20. Responding to Covid-19 — A Once-in-a-Century Pandemic? "Translated and summarized" S Noraee, H Bahrol-Olom, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 3 (6), 162-164.

- https://www.ijbio.ir/article_1858.html?lang=en
21. History in a Crisis — Lessons for Covid-19. "Translated and summarized" Bahrol-Olom, S Norae, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 3 (6), 164-167.
https://www.ijbio.ir/article_1859.html?lang=en
22. When Can We Lift the Coronavirus Pandemic Restrictions? Not Before Taking These Steps. "Translated and summarized" S Norae, H Bahrol-Olom, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 3 (6), 171-174.
https://www.ijbio.ir/article_1861.html?lang=en
23. The host's angiotensin-converting enzyme polymorphism may explain epidemiological findings in COVID-19 infections "Translated and summarized". H Bahrol-Olom, S Norae, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 4 (7), 260-261.
24. Does a cell protein explain Covid-19 severity? "Translated and summarized". S Norae, H Bahrol-Olom, **S Aminzadeh**. 2020, **Iranian Journal of Biology** 4 (7), 290-291.
https://www.ijbio.ir/article_1881.html?lang=en
25. Covid-19, and vitamin D "Translated and summarized". **S Aminzadeh**. 2020, **Iranian Journal of Biology** 4 (7), 278-282.
https://www.ijbio.ir/article_1877.html?lang=en
26. The Novel Coronavirus â A Snapshot of Current Knowledge "Translated and summarized" **S Aminzadeh**. 2020, **Iranian Journal of Biology** 4 (7), 208-214.
https://www.ijbio.ir/article_1865.html?lang=en
27. Death rate mystery "Translated and summarized" **S Aminzadeh**. 2020, **Iranian Journal of Biology** 4 (7), 292-293.
https://www.ijbio.ir/article_1882.html?lang=en
28. COVID-19 therapies and vaccine landscape. M Shamsara, **S Aminzadeh**. 2021, **Iranian Journal of Biology** 4 (8), 134-137.
https://www.ijbio.ir/article_1985.html?lang=en
29. Identifying and Interrupting Superspreading Events—Implications for Control of Severe Acute Respiratory Syndrome Coronavirus 2, Emerging Infectious Diseases. H Bahrulolum, S Noorae, **S Aminzadeh**. 2021, **Iranian Journal of Biology** 4 (8), 142-149.
https://www.ijbio.ir/article_1990.html?lang=en
30. The race for coronavirus vaccines. S Mosalatpour, R Hajihosseini, AM Shamsara, **S Aminzadeh**. 2021, **Iranian Journal of Biology** 4 (8), 138-143.
https://www.ijbio.ir/article_1989.html?lang=en
31. Surviving the trauma of COVID-19. H Bahrulolum, S Noorae, **S Aminzadeh**. 2021, **Iranian Journal of Biology** 4 (8), 152-154.
https://www.ijbio.ir/article_1992.html?lang=en
32. Ecology and economics for pandemic prevention. S Noorae, H Bahrulolum, **S Aminzadeh**. 2021, **Iranian Journal of Biology** 5 (9), 139-145.
https://www.ijbio.ir/article_2063.html?lang=en
33. Moringa Oleifera, Miracle Tree. F Velayatipour, F Fotouhi Chahuki, SA Angaji, **S Aminzadeh**. 2022, **Iranian Journal of Biology** 5 (10), 125-128.
https://www.ijbio.ir/article_2117.html?lang=en
34. Engineering circular RNA for potent and stable translation in eukaryotic cells. O Ghavimi, **S Aminzadeh**. 2022, **Iranian Journal of Biology** 5 (10), 59-73.
https://www.ijbio.ir/article_2018.html?lang=en

35. Earth BioGenome Project. N Javanshir, **S Aminzadeh**. 2022, **Nameye Oloom Paye** 4, 168-173.
<https://ias.ac.ir/images/1401/1401PDFs/basic-4-16.pdf>
36. High-Molecular-Mass Hyaluronan Mediates the Cancer Resistance of the Naked Mole Rat "Translated and summarized". F Fotouhi, **S Aminzadeh**. Iranian Journal of Biology, 2022, 11, 187-188.
https://www.ijbio.ir/article_2221.html?lang=en
37. Xylanase and its applications. M Sadeghi Ardabili, **S Aminzadeh**. Iranian Journal of Biology, 2022 11, 189-191.
https://www.ijbio.ir/article_2220.html?lang=en

IX: Book Translation, Edition & compiling

1. **Biotechnology Foresight: Iran 2025**. ISBN: 978-964-8041-41-5, Pub Date: 2009. (Publisher: National Research Institute for Science Policy).
2. **Stryer's Biochemistry** 1&2; fourth Edition. ISBN: 964-95647-1-3, Pub Date: 2006. (Publisher: Biology House).
3. **Stryer's Biochemistry**; Fifth Edition. Pub Date: 2007. (Publisher: Biology House).
4. **Stryer's Biochemistry 1 & 2**; sixth Edition. Pub Date: 2007. (Publisher: Biology House).
5. **Biology of SOLOMON**; Seventh Edition 2006. (Publisher: Biology House).
6. **Biology Olympiads for high school students** 1&2. (Publisher: kanoon farhangi amoozesh).
7. **Questuion Designer of Biology Teachers Exam**. September 2008
8. **Biology Olympiads of IRAN**. 2008 (publisher: kanoon farhangi amoozesh).
9. **Membrane Biochemistry and transfer**. 2010 (publisher: Textbooks compiled center, department of education and training, Sepah e Pasdaran).
10. **Campbell Biology**. 9th. Ed. 2011. (Publisher: Biology House).
11. **Quality in Medical Biochemistry Laboratory**. 2015 (publisher: Nour e Ata).
12. **Gene Cloning and DNA Analysis an Introduction**. 2015 (Sixth Edition, publisher: Roodgon and Sinateb)
13. **Emery Elements of Medical Genetics**. 2015 (Sixth Edition, publisher: Roodgon and Sinateb)
14. **Molecular Cell Biology, Lodish, Harvey F**. 2018. (publisher: Roodgon and Sinateb)

X: Patent

1. Application of *Cohnella* A01 thermophilic lipase in detergent and leather industries.
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139250140003011196&RN=82707>
2. Single step purification of *Macrophomina phaseolina* polygalacturonase.
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139450140003004444&RN=86832>
3. The process of cyanide degradation by *Bacillus subtilis* M01.
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139450140003012601&RN=90533>
4. Heat shock single step purification of *Cohnella* A01 recombinant protease 1147.
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139550140003007352&RN=90613>
5. The process of phenolic derivative oxidation by thermophilic laccase from *Cohnella*
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139450140003014163&RN=91325>
6. Heat and salt resistant L-glutaminase production process for soy sauce production.
<https://ipm.ssaa.ir/Search-Result?page=1&DecNo=139750140003010716&RN=98799>

XI: Presentation

1. Investigation of Genetic Variation within and Among *Rainbow Trout*, *Onchorhynchus mykiss*, Hatchery Populations from Iran. The first Congress of Biochemistry and Biophysics. I.B.B. 2000.
2. Screening of fungal strains for pectinolytic activity. The 13th Iranian Congress of Biology & the 1st International Congress of Biology. Gilan-Iran, 2005.
3. Purification, Characterization, Kinetic Properties and Thermal Behavior of the Extracellular Polygalacturonase Produced by a Filamentous Fungus *Tetracoccusporium* sp. International Congress of Biochemistry. TMU, Iran, 2006.
4. Characterization of Acid-Induced Molten Globule State of Polygalacturonase from a Filamentous Fungus *Tetracoccusporium* SP. FEBS 2006 Congress.
5. A survey on chitinolytic bacteria in shrimp farming ponds; 1st International Congress on Aquatic Animal Health Management and Diseases; 2009; Tehran; IRAN.
6. Screening of chitinolytic microorganism in shrimp farming water and wastewater; 27th Meeting of The European Society of veterinary pathology and European college of veterinary pathologists. Olsztyn-Krakow 09-13 September 2009.
7. S. Aminzadeh, A. Ghoroghi, M. Zarei, S.A. Lotfi, M. Daliri, H. Zolgharnain, S. Alireza. Screening of Chitinolytic Microorganisms in Shrimp Farming Water and Wastewater. Journal of Comparative Pathology. Vol. 141, 2009.
8. Screening, Isolation and Optimization of Chitinase Produced from a Native Strain of Iran; Sixth Congress of Biotechnology. 2009; Tehran; IRAN.
9. Possibility of achieving thermophile chitinolytic microorganisms in shrimp farming ponds. The first National Congress of Veterinary Laboratory Sciences. December 1-2 2009 Tehran, IRAN.
10. Molecular Identification of mesophilic chitinolytic microorganisms in shrimp farming ponds and partial purification of produced chitinase. The first National Congress of Veterinary Laboratory Sciences. December 1-2 2009 Tehran, IRAN.
11. Cloning of chitinase gene obtained from one of the isolated chitinolytic microorganism in shrimp farming ponds. The first National Congress of Veterinary Laboratory Sciences. December 1-2, 2009 Tehran, IRAN.
12. Purification of Chitinase from Native *Enterobacter cloacae* B4A. The 3rd Iranian Proteomics Society Congress, May 2010.
13. Functional Genomics of a Mesophilic Chitinase Isolated from Shrimp Pond. The 3rd Iranian Proteomics Society Congress, May 2010.
14. Thermophilic Chitinase Production by *Geobacillus thermodenitrificans* A01: Parameters Optimization Using Taguchi Approach. The 16th National and 4th International Conference of Biology, Sept 14-16, 2010, Ferdowsi University of Mashhad, Iran.
15. Purification and Characterization of Chitinase from *Serratia marcescens* B4A. The 16th National and 4th International Conference of Biology, Sept 14-16, 2010, Ferdowsi University of Mashhad, Iran.
16. Heterologous Expression and Structural Investigation of Chitinase from the Chitinolytic Bacterium *Serratia marcescens* B4A. The 16th National and 4th International Conference of Biology, Sept 14-16, 2010, Ferdowsi University of Mashhad, Iran.

17. Thermophilic Chitinase Production by *Geobacillus thermodenitrificans* A01: Parameters Optimization Using Taguchi Approach. The 16th National and 4th International Conference of Biology, Sept 14-16, 2010, Ferdowsi University of Mashhad, Iran.
18. Biochemical Characterization and Optimization of Thermostable Chitinase Produced by *Geobacillus Thermodenitrificans* A01. 1st International Conference of Bio-Processing and Application of Microbial Biotechnology in Agriculture, Nov 1-3, 2010, Cairo, Egypt.
19. Kinetic Properties and Biochemical Characterization of a Native Antifungal Chitinase. 1st International Conference of Bio-Processing and Application of Microbial Biotechnology in Agriculture, Nov 1-3, 2010, Cairo, Egypt.
20. Molecular Cloning, Expression, Characterization and Purification of Chitinase from *Serratia marcescens* B4A as a Biological Control. 1st International Conference of Bio-Processing and Application of Microbial Biotechnology in Agriculture, Nov 1-3, 2010, Cairo, Egypt.
21. Purification and Characterization of *Serratia Marcescens*. The Third International Conference of Medical Genetics in Kuwait, October 2010.
22. Chitinase pI Determination and Investigation of Carbon Resources on *Serratia marcescens* B4A Proteome by 2 dimensional Gel Electrophoresis. The National Proteomics Congress, Shiraz University, 28 & 29 October 2010.
23. Production, Purification, and Optimization of Chitinase in order to Remove Shrimp Farming Waste. 3rd Iranian Shrimp congress. Boushehr University, 5 & 6 December 2010.
24. Identification of antifungal chitinase from *Serratia marcescens* B4A. 11th Iranian Congress of Biochemistry and Molecular Biology. Qazvin University, 8-10 February 2011.
25. Efectos De La Inclusión De Trigo Y Suplementación Con Xilanasas Del Pienso Sobre La Actividad Enzimática Intestinal, La Retención De Los Nutrientes Y La Productividad En Gallinas De 25 A 33 Semanas De Edad. Asociación Interprofesional Para El Desarrollo Agrario (Aida). 41 Jornadas De Estudio. Xiv Jornadas Sobre Producción Animal. 17 Y 18 De Mayo De 2011. Zaragoza.
26. Screening and Isolation of Polygalacturonase from Plant pathogen microorganisms. The First National Probiotic & Prebiotic Congress of Iran. 20 and 21 May 2011.
27. Partial Purification of Thermostable Chitinase from a Native Microorganism. The First National Probiotic & Prebiotic Congress of Iran. 20 and 21 May 2011.
28. Production of Recombinant Protein from Izumo Spermatozoid. The 7th National Biotechnology Congress of I.R.Iran. 12-14 sep. 2011.
29. Screening of plant pathogenic fungi for the isolation of polygalacturonases important in fruit juice factories. The 7th National Biotechnology Congress of I.R.Iran. 12-14 sep. 2011.
30. Production and Partial Purification of Extracellular Chitinase with Antifungal activity from a Native Thermophile Strain of Iran. The 7th National Biotechnology Congress of I.R.Iran. 12-14 sep. 2011.
31. Cloning and sequencing of thermophilic chitinase gene of a native Iranian bacteria. The 7th National Biotechnology Congress of I.R.Iran. 12-14 sep. 2011.
32. Isolation and Characterization of Collagen from Skin of sea cucumber (*Holothuria parva*). The 7th National Biotechnology Congress of I.R.Iran. 12-14 sep. 2011.

33. Construction of single-cycle replicable HIV-1 virions expressing GFP reporter protein. The 5 Iranian Congress of clinical Microbiology. Shiraz Medical University. 2011.
34. Purification, Characterization, Kinetic Properties, and Thermal Behaviour of Extracellular Chitinase Produced by a Native Microorganisms *Serratia marcescens* B4. IV International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2011). Spain. 2011.
35. Recognition testing for a novel bacteriocin produced by native *Serratia marcescens* DGH1. 1st Biotechnology World Congress. U.A.E. 2012.
36. A new method for survey antibacterial activity agents against of pathogenic Microorganisms. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
37. Optimal production of bacteriocin produced by *Enterobacter* DGH3 an anti-Citrus canker bacteria. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
38. Screening and Isolation of Anti citrus canker disease bacteria from soil, water and plant organs. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
39. Identification and partial investigation of Antibacterial activity of native *Enterobacter* sp. DGH3. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
40. Characterization and investigation of antifungal chitinase from native *Serratia marcescens* B4A. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
41. *Serratia marcescens* b4a anti pathogenic plant fungal chitinase stability improvement. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
42. A new method for survey antibacterial activity of bacteriocins for improvment plant products. The 17th National and 5th International Conference of Biology, September, 2012, Bahonar University of Kerman, Iran.
43. Purification of polygalacturonase of *Macrophomina phaseolina*, causal agent of Charcoal rot. 12th Iranian Genetic Congress. 21-23 May 2012.
44. Stabilization of a chitinase from *Serratia marcescense* B4A by change of Ser390Ile with site directed mutagenesis. 12th Iranian Genetic Congress. 21-23 May 2012.
45. Isolation and purification of protein and peptide from gel polyacrylamide. 12th Iranian Genetic Congress. 21-23 May 2012.
46. Recombinant protein generation against canis sperm. 12th Iranian Genetic Congress. 21-23 May 2012.
47. Effect of Wheat Inclusion and Xylanase Supplementation of the Diet on Intestinal Enzyme Activity and Nutrient Digestibility in Laying Hen at First Phase of Production. Proceedings of the 15th AAAP Animal Science Congress. Thailand. 2012.
48. Isolation and identification of antagonistic effects of some fungal crude extract on xanthamonas species. Third National Biotechnology Congress. Ferdowsi University of Mashhad. 2012.
49. Serotonin receptor, 5-HTR2A gene expression changes analysis as stress factor in Breast cancer patients. 8th International Congress of Breast Cancer. 21-23 Feb. 2012

50. Analysis of biochemical characteristics of fungal polygalacturonases via bioinformatics. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
51. Isolation and cloning of thermophile beta glucanase from *Cohnella* A01. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
52. Fungal and bacterial polygalacturonases: A bioinformatic survey. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
53. Isolation and Cloning of Amylopullulanase Gene from *Cohnella* A01. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
54. Bioinformatic of thermophilic bacteria Glucanase enzyme *Cohnella* A01. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
55. Isolation and cloning of beta 1,6 glucanase gene from native thermophilic *Cohnella* A01. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
56. Isolation and Cloning of Amylopullulanase Gene 04159 from *Cohnella* A01. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
57. Type II pullulanases (GH57) in archaea and bacteria: A bioinformatic survey. The 8th National Biotechnology Congress of I.R.Iran. 6-8 July. 2013.
58. The bioinformatics evaluation of amylopullulanase in archaea, bacteria and plants. The first National Student Congress of Bioscience. 25, 26 September 2013.
59. Serotonin receptor, 5-HT_{2A} gene expression changes analysis as stress factor in Breast cancer patients. 8th International Congress of Breast Cancer. 20-22 Feb 2013.
60. The association between rs11568818 polymorphism with the risk of relapsing-remitting multiple sclerosis in Iranian patients. 6th Iranian International Congress Laboratory & Clinic. 12-14 Feb 2014.
61. Bioinformatic analysis of fungal and bacterial pectate lyase L towards better comprehension of its biochemical properties. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
62. Gene cloning of pectate lyase isolated from *Cohnella* A01. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
63. Comparative modeling of a β -Galactosidase from *Cohnella* A01 and performing in silico point mutation for increasing thermal stability and catalytic activity. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
64. Cloning and expression of Beta glucanase enzymes isolated from thermophilic bacteria *Cohnella* A01. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
65. Type II Pullulanase of a thermostable bacterial *Cohnella* A01: study of catalytic and non-catalytic domain. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
66. Production of recombinant amylopullulanase Coh00831 from *Cohnella* A01. 1st International & 13th Iranian Genetics Congress. 24-26 May 2014.
67. Industrial Enzymes. The Comprehensive Novel findings in National Congress Biology. 7-8 May 2014.
68. Biodegradation of cyanide by nitrilase. 1st National Congress of Biology and Natural Sciences. 11 Dec 2014.
69. Prediction of secondary structure of pectate lyase from *Cohnella*A01 with PSIPRED server. First International and 9th National Biotechnology Congress. 24-26-2015.

70. Theoretical Study of Indigenous Beta-1,3-1,4-glucanase. First International and 9th National Biotechnology Congress. 24-26-2015.
71. The Comparison between native thermostable amylopullulanase with the other related enzymes. First International and 9th National Biotechnology Congress. 24-26-2015.
72. Isolation, Screening and Identification of Cyanide Degrading Enzymes. First International and 9th National Biotechnology Congress. 24-26-2015.
73. Bioinformatics analysis of iron dependent superoxide dismutase in thermophilic bacterium *Cohnella* sp.A01. First International and 9th National Biotechnology Congress. 24-26-2015.
74. In Silico Survey of Native Thermostable Laccase. First International and 9th National Biotechnology Congress. 24-26-2015.
75. Cloning and Molecular Confirmation of Lipase gene from *Xanthomonas citri* Subsp. Citri. First International and 9th National Biotechnology Congress. 24-26-2015.
76. Theoretical prediction properties of Peptidase T Coh03367.n from Thermophile bacteria *Cohnella* sp A.01. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
77. Theoretical prediction properties of Zinc metalloprotease Coh02397.n from Thermophile bacteria *Cohnella* sp A.01. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
78. Bioinformatic analysis of *Cohnella* A01 glutamin amidotransferase. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
79. Theoretical prediction properties of carboxypeptidase G2 Coh01302.n from Thermophile bacteria *Cohnella* sp A.01. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
80. Theoretical prediction properties of Putative carboxypeptidase yodJ Coh02594.n from Thermophile bacteria *Cohnella* sp A.01. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
81. The bioinformatic study of thermostable protease. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
82. In Silico studies of indigenous thermostable protease. 1st Congress of Chemical Biotechnology. 6-8 March 2016.
83. The prevalence of changes in the HLA-A * 31: 01 gene by administration of carbamazepine to different Iranian ethnic groups. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
84. Investigation of the relationship between MS and rs9657904 on gene CBLB. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
85. Comparison between glutamin amidotransferases in four bacteria via bioinformatics software. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
86. Bioinformatics analysis of carboxypeptidase G2 Coh01302.n from Thermophile bacteria *Cohnella* sp A.01. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
87. Characterization of thermostable and Ca²⁺ independent amylopullulanase from Indigenous bacteria *Cohnella* sp. A01. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.

88. Optimization of culture condition of the extra cellular cyanide degrading enzyme with Response Surface Methodology. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
89. Homology modeling of *Cohnella* A01 thermostable protease. 2nd International & 4th Iranian Genetic Congress. 21-23 May 2016.
90. The effect of metal ions on *Cohnella* A01 thermostable protease. 5th Iranian Congress of Trace Elements. 20-22 Dec. 2016.
91. The effect of metal ions on *Cohnella* A01 thermostable cellulase. 5th Iranian Congress of Trace Elements. 20-22 Dec. 2016.
92. HA-producing Non-recombinant GRAS Bacteria. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
93. Study on urease localization produced by *Staphylococcus* sp. IR-103 and its time profile of urease activity in various culture media. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
94. Design, Expression and Purification of Recombinant Peptide Derived from Human Endostatin. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
95. Cloning a Novel Indigenous Bacterial L-Glutaminase. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
96. From determining a key membrane protein to treatment a specific disease. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
97. Cloning and Expression of xylanase A from thermophilic indigenous *Cohnella* sp. A01. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
98. Isolation and Cloning of Xylanase B from a Native Thermophilic Bacteria from Shrimp Farming Ponds. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
99. Cloning and sequencing of xylanaseB from Thermophilic *Cohnella* sp.A01. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017.
100. Effect of post-hatch feeding on trend of gastrointestinal tract development in broiler chickens. 8th Iranian Animal Science Congress. 28-29 August 2018. University of Kurdistan.
101. Effect of post-hatch nutrition in modulating transport stress in broiler chickens. 8th Iranian Animal Science Congress. 28-29 August 2018. University of Kurdistan.
102. Effect of post-hatch feeding on performance of broiler chickens. 8th Iranian Animal Science Congress. 28-29 August 2018. University of Kurdistan.

XII: Teaching Experiences

1. **General Biochemistry** Course; Islamic Azad University of Mashhad.
2. **Biochemistry** Course; Islamic Azad University of Mashhad.
3. **Hormones Biochemistry**; Islamic Azad University of Mashhad.
4. **Carbohydrates & Lipids Biochemistry**; Islamic Azad University of Mashhad.
5. **Protein and Nucleic acid Biochemistry**; for M.Sc Students; Payame Noor University of Mashhad; Noor e Danesh university of meymeh.

6. **DNA Structure and Replication**; for M.Sc Students; National Institute of Genetic Engineering and Biotechnology, Tehran.
7. **Gene Regulation**; for M.Sc Students; National Institute of Genetic Engineering and Biotechnology, Tehran, M.Sc Student of Islamic Azad University and M.Sc Students; Noor e Danesh university of meymeh.
8. **Advanced Molecular Genetics II**; for Ph.D Students; National Institute of Genetic Engineering and Biotechnology, Tehran.
9. **Biotechnology**; for M.Sc Students; National Institute of Genetic Engineering and Biotechnology, Tehran.
10. **Biochemistry** Course; for M.Sc Students; Payame Noor University of Tehran.
11. **Enzymology** Course; for M.Sc Students; National Institute of Genetic Engineering and Biotechnology (NIGEB), Shahed University, and M.Sc Student of Islamic Azad University; Noor e Danesh university of meymeh.
12. **Biotechnology** Course; for Ph.D Students of veterinary sciences; Tehran University, Tehran.
13. **Molecular and Cellular Biology** Course; for M.Sc Students; Payam Noor University of Karaj.
14. **Microbiology** Course; for M.Sc Students; Payam Noor University of Karaj.
15. **Eukaryotes genetics** Course; for M.Sc Students; Noor e Danesh university of meymeh; M.Sc Students; National Institute of Genetic Engineering and Biotechnology, Tehran.
16. **Biochemistry**; for M.Sc Students; National Institute of Genetic Engineering and Biotechnology, Tehran.
17. **Advanced Topics in Protein and Nucleic acid Biochemistry**; for Ph.D students; Islamic Azad University, Science and Research Branch, Tehran.
18. **Advanced Topics in Protein Structure**; for Ph.D students; Islamic Azad University, Science and Research Branch, Tehran.
19. **Mechanism of Enzyme Action**; for Ph.D students; Islamic Azad University, Science and Research Branch, Tehran.

XIII: Special Training

1. May 2008. A Member of Executive Committee in International Workshop on "Application of Advanced Molecular Methods for Diagnosis of Human Genetic Diseases" Organized by: National Institute of Genetic Engineering and Biotechnology, Tehran, Iran; Supported by: international center for Genetic Engineering & Biotechnology (ICGEB).
2. June 2008. Workshop on "Bioinformatics & Protein Engineering" National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
3. June 2008. Workshop on "New Molecular, Cytogenetic, and Molecular Cytogenetic Methods and their applications for Diagnosis of Human Genetic, Agriculture, and Veterinary Diseases" National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
4. June 2008. International Workshop on "Genomic Engineering and Nanobiotechnology" National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
5. August 2008. Workshop on "Experimental Design and optimization of Biotechnology Processes using Statistical Methods-basic course" National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
6. January 2009. First International Congress on "Aquatic Animal Health Management and Disease", Tehran, Iran.

7. March 2009. Workshop on "The Trade & Transfer of Intellectual Property in the Biotechnology Industry" National Institute of Genetic Engineering and Biotechnology and Em Tec, Tehran, Iran.
8. October 2010. Workshop on "Phylogenetic tree" National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
9. February 13-14, 2011. International Training Workshop on "Technology Business Incubators (TBIs) Management". Isfahan Science Technology Town, Isfahan, Iran.
10. November 20-22, 2011. 1st International Workshop on "Bioethics and Ethical Aspects of Biosafety". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
11. April 2011. Workshop on "Enzyme engineering". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
12. October 2011. Workshop on "Intellectual properties for startup companies". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
13. November 2011. Workshop on "International patents". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
14. January 2012. Workshop on "ASTM E691 Standard". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
15. May 2012. Workshop on "Project Management". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
16. August 2012. Workshop on "Estimated measurement uncertainty". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
17. December 2012. Workshop on "Iso/IEC 17025 Standard". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
18. December 2013. Workshop on "SOP writing, Validation & business negotiation and communication". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
19. March 2013. Workshop on "Minitab Software". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
20. May 2015. Workshop on "Commercialization". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
21. July 2015. Workshop on "Technology Transfer". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
22. June 2015. Workshop on "Intellectual Properties". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
23. June 2015. Workshop on "Technology Management". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
24. June 2015. Workshop on "Technology Transfer Contracts". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
25. October 2015. Workshop on "Basic life support". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
26. September 2016. Workshop on "Introduction to NGS data analysis". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
27. July 2016. Workshop on "Risk Management ISO 14971:2012". QS Quality Service.
28. October 2016. Workshop on "Promotion of Scientific and Technological Authority at the National and International Levels: Effective Strategies and Applicable Solutions". National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

29. December 2016. Workshop on “Technology Transfer and Commercialization in OIC Member States: The Role of TechMart”. National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

XIV: Techniques of Expertise

Laboratory skills:

- Gene expression analyses (RNA&DNA extraction, Southern and Northern blot, RT-PCR, Screening)
- Recombinant protein expression and purification in prokaryotes
- RFLP.
- Site-directed mutagenesis techniques.
- **Protein Purification:** Purification of proteins, FPLC purification of proteins using ion-exchange, size-exclusion, and affinity columns.
- Structural characterization
- **Chromatography:** FPLC purification of proteins using DEAE, SEC and Affinity columns.
- **Protein analysis:** Protein extraction, SDS PAGE analysis, Enzyme assays.
- **Spectrophotometry:** UV/Vis, Fluorometry, Circular Dichroism.
- **Enzymatic manipulation.**
- **Product Optimization.**
- **Protein Engineering**

XV: Professional Membership

1. **Sep. 1995 – Present:** Member of Iranian Biology Society.
2. **Sep. 2001 – Present:** Member of Iranian Society of Biophysical Chemistry.
3. **Sep. 2001 – June 2008:** Biotech Committee High-Tech Ctr., Ministry of Industry and Mines.
4. **May 2010 – Present:** Member of Iranian Biotechnology Society.
5. **A member of NIGEB Publication Committee: 2017-2022.**

XVI: Editorial Board

1. **2013-2018:** Iranian Journal of Biotechnology (IJB)
2. **2013-present:** Cellular and Molecular Researches. <https://cell.ijbio.ir/?lang=en>
3. **2016-present:** Iranian Journal of Biology. <https://www.ijbio.ir/?lang=en>
4. **2023-present:** Microbiology, Metabolites and Biotechnology. <https://armmt.irost.ir/>

XVII: Invited Reviewer

1. **2008 - Present:** Iranian Journal of Biotechnology
2. **2009 – Present:** International Journal of Plant Physiology and Biochemistry
3. **2009 – Present:** World Journal of Microbiology and Biotechnology
4. **2009 – Present:** International Journal of Medicine and Medical Sciences
5. **2010 – Present:** Journal of Iranian Chemical Society (JICS)
6. **2010-Present:** Iranian Journal of Biology

7. **2011-Present:** Journal of Science, Khawrazmi University
8. **2012-present:** Cellular and Molecular Biotechnology Journal
9. **2012-present:** Iranian Biomedical Journal
10. **2016-present:** Journal of Process Biochemistry
11. **2016-present:** International Journal of Biological Macromolecules.
12. **2016-present:** PLOS ONE
13. **2022- present:** Microbiology, Metabolites and Biotechnology
14. Journal Of Biomolecular Structure & Dynamics
15. Applied Microbiology And Biotechnology
16. Biotechnology And Applied Biochemistry
17. Heliyon
18. Iranian Journal Of Science And Technology Transaction A-Science
19. Process Biochemistry
20. Applied Biochemistry And Biotechnology
21. Biochemical Genetics
22. Bioprocess And Biosystems Engineering
23. Colloids And Surfaces B-Biointerfaces
24. International Journal of Peptide Research And Therapeutics
25. Iranian Journal of Allergy Asthma And Immunology
26. Journal of Cellular Biochemistry
27. Thalassas

XVIII: Research Project Review & Supervision

Research Project Review:

1. Aquacultures cell culture: anterior part of Hypophyse *Acipenser gueldenstaedtii*. 26/Feb/2009. Iranian Fisheries Research Organization, Tehran, Iran.
2. Investigation of *Mnemiopsis leidyi* population genetic using molecular method in the Caspian Sea. 27/May/2009. Iranian Fisheries Research Organization, Tehran, Iran.
3. Examining the biotransformation of phenolic substrates to ortho-dihydroxy compounds by the trapped tyrosinase into the solid phase. June/2009. National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.

4. Identification sex marker in Beluga (*Huso huso*) and Persian sturgeon (*Acipenser persicus*) by using of molecular techniques. Iranian Fisheries Research Organization – International Sturgeon Research Institute.
5. Purification and characterization of β -lactamases from clinical isolates of salmonella spp. Research Center of Gastroenterology & Hepatology Diseases.
6. Investigating the promoter activity of *Bacillus pumilus* chitinase operon.
7. Optimizing phenol biodegradation by strains isolated from soil and polluted wastewater under different conditions of cell growth, cell stabilization.
8. The effects of lactobacillus coated with chitosan oligosaccharide nanoparticles on intestinal flora, hematological and immune parameters in broilers.

Iran National Science Foundation (INSF) Scientific Reviews:

9. <https://rtms.insf.org/RefereeCertificateEn.php?ID=L9UZGGRMV2Q136P0>
10. <https://rtms.insf.org/RefereeCertificateEn.php?ID=526RALROM79K96FX>
11. <https://rtms.insf.org/RefereeCertificateEn.php?ID=S5JKEKROMA34S6IX>
12. <https://rtms.insf.org/RefereeCertificateEn.php?ID=F059J8R15BCP8TBC>
13. <https://rtms.insf.org/RefereeCertificateEn.php?ID=F4JQZYR12CWYGD98>
14. <https://rtms.insf.org/RefereeCertificateEn.php?ID=A13XQVRFT8GDPS0Q>
15. <https://rtms.insf.org/RefereeCertificateEn.php?ID=4AJ9X0RGJH4FKH3Y>
16. <https://rtms.insf.org/RefereeCertificateEn.php?ID=AT5U76QWUK2NYFHF>
17. <https://rtms.insf.org/RefereeCertificateEn.php?ID=Y180C6QX7BSW7EO3>
18. <https://rtms.insf.org/RefereeCertificateEn.php?ID=151LX9QXNBIVGVWH>
19. <https://rtms.insf.org/RefereeCertificateEn.php?ID=SW9KKBQR48ONDMQV>
20. <https://rtms.insf.org/RefereeCertificateEn.php?ID=KCY2LZQZ9B1ZWD01>
21. <https://rtms.insf.org/RefereeCertificateEn.php?ID=MTIKS1QKUDXZMV5G>
22. <https://rtms.insf.org/RefereeCertificateEn.php?ID=6KDPVCQFI55IB5M2>
23. <https://rtms.insf.org/RefereeCertificateEn.php?ID=HLBATQQ7QC8ITGAX>
24. <https://rtms.insf.org/RefereeCertificateEn.php?ID=85EUP0QH372OGIF8>
25. <https://rtms.insf.org/RefereeCertificateEn.php?ID=9EKQ338AJE47C3>
26. <https://rtms.insf.org/RefereeCertificateEn.php?ID=U1YVCWA0WD3GJ6>
27. <https://rtms.insf.org/RefereeCertificateEn.php?ID=EBZUMQCYLQB5FW>
28. <https://rtms.insf.org/RefereeCertificateEn.php?ID=G14IVF7E4VFBBO>
29. <https://rtms.insf.org/RefereeCertificateEn.php?ID=2WV0FT398H8CV6>
30. <https://rtms.insf.org/RefereeCertificateEn.php?ID=1GJ1BGKPH73LN4>
31. <https://rtms.insf.org/RefereeCertificateEn.php?ID=6JWP1X8EXW2OZN>
32. <https://rtms.insf.org/RefereeCertificateEn.php?ID=RCE8BZHEG6XQ7>
33. <https://rtms.insf.org/RefereeCertificateEn.php?ID=8YRZIBBQ55G60I>
34. <https://rtms.insf.org/RefereeCertificateEn.php?ID=EFZPSCK2MK7L23>

Research Project Supervision:

1. <https://rtms.insf.org/RefereeCertificateEn.php?ID=K4876KRSLOJBAOM>
2. <https://rtms.insf.org/RefereeCertificateEn.php?ID=VGQCPLQSV9O2LUN5>
3. <https://rtms.insf.org/RefereeCertificateEn.php?ID=N6TU0GQRHGISTOSO>
4. <https://rtms.insf.org/RefereeCertificateEn.php?ID=RS8JKDQB4DLE3MYP>
5. <https://rtms.insf.org/RefereeCertificateEn.php?ID=151LX9QXNBIVGVWH>
6. <https://rtms.insf.org/RefereeCertificateEn.php?ID=AB0NSMRSSJUF0OHC>
7. <https://rtms.insf.org/RefereeCertificateEn.php?ID=NC2E9VK5R5J6KI>
8. <https://rtms.insf.org/RefereeCertificateEn.php?ID=EXUPEMRX3IGVZNF3>

XIX: Awards Received

1. 2003. Biotechnology Awards; Biotechnology Congress.
2. 2003. 11th student year Book Awards.
3. 2006, Distinguished Top Ph.D student in Biochemistry, University of Tarbiat Modarres, Tehran, Iran.
4. 15th student year Book Awards.
5. 2010, International Foundation for Science Grant (IFS) Grant.
6. 2012, Iran National Science Foundation (INSF) Grant.
7. 2012, International Foundation for Science Grant (IFS) Second Grant.
8. 2012, Certificate of appreciation from NIGEB Biotechnology Incubator.
9. 2013, Top Researcher at National Institute of Genetic Engineering and Biotechnology (NIGEB).
10. 2015, Top Teacher at National Institute of Genetic Engineering and Biotechnology (NIGEB).
11. 2015, Top Ten in NIGEB.
12. 2015, the world academy of sciences (TWAS) Grant.
13. 2018, Top Ten in NIGEB.
14. 2019, 50,000,000 Rials award from Ministry of Science, Research and Technology.
15. 2020, Selected research project of Tehran province: The contract for the exclusive transfer of technology for extracting Moringa peptide extract
https://drive.google.com/file/d/1emJAB0w-IvbFdow3M2y9qgvoLVK6V_tC/view?usp=drive_link
http://nigeb.ac.ir/fullcontent/-/asset_publisher/Ia9EBBDU6UZD/content/id/1810200

<https://andialand.com/2033-madeh-giyahi-sanayeh-arayeshi.html>

<https://khabarban.com/a/26211048>

<https://mstpark.com/wp-content/uploads/2020/02/selected-industrial-designs-book-01.pdf>

16. 2022, First rank researcher in NIGEB.

XX: Research Projects & Grants (Finished & Running)

No.	Project Title	Position	Location	Budget (IRR)	Year
1	Genetic Variation Within and Among Rainbow trout	Co - Executive	Tarbiat Modarres University (Finished)	-	2003
2	Industrial enzymes	Co - Executive	Tarbiat Modarres University (Finished)	-	2006
3	Production of Biological Product "Chitinase" from Micro-organisms in Shrimp Farming Wastewater	Executive	NIGEB Grant No: 325 (Finished)	70,000,000	2009
4	Biochemical characterization of efficient chitinase-producing indigenous bacterial strain isolated from shrimp farming ponds	Executive	NIGEB Grant No: 365	149,000,000	2010
5	Obtaining More Juice from Row Fruits and Improving the Efficiency of Instruments in Industrial Fruit Juice Factories	Co - Executive	Shahrood University of Technology (Finished)	-	2011
6	Purification, and investigation of biological and physicochemical properties of <i>Serratia marcescens</i> B4A chitinase	Executive	NIGEB Grant No: 404 (Finished)	70,000,000	2012
7	Investigation and achievement of a bacteriocin in order to biocontrol of Bacterial Citrus Canker	Executive	NIGEB Grant No: M 406 (Finished)	405,324,000	2013
8	Cloning, expression and purification of recombinant thermophilic amylopullulanase from <i>Cohnella</i> A01	Executive	NIGEB Grant No: 473 (Finished)	69,500,000	2015
9	Biochemical characterization of recombinant thermostable protease	Executive	NIGEB Grant No: 524 (Finished)	100,000,000	2016
10	Determination of substrate specification, proteolytic resistance and the type of recombinant thermostable protease for food industries	Executive	NIGEB Grant No: 584 (Finished)	100,000,000	2017
11	Increasing of Hyaluronic acid production of <i>Lactobacillus acidophilus</i> ATCC 4356 via metabolic engineering and optimization of culture conditions	Executive	NIGEB Grant No: 642 (Finished)	160,000,000	2018
12	Extraction of Anti pollution peptides from Moringa seeds	Executive	NIGEB	255,000,000	2019

			Grant No: T110 (Finished)		
13	Determination of the effect and type of specific inhibitors on recombinant thermostable protease	Executive	NIGEB Grant No: 712 (Finished)	120,000,000	2020
14	Heterologous expression and characterization of biological and biochemical properties of MO-CBP2	Executive	NIGEB Grant No: 747 (Finished)	239,800,000	2021
15	Characterization of antimicrobial and anticancer properties of Moringa oleifera-Chitin Binding Protein 2 (MO-CBP2)		NIGEB Grant No: 799	457,100,000	Running
16	Optimizing the culture medium in order to increase the expression of xylanase enzyme by GRAS yeast strain		NIGEB Grant No: 821	566,000,000	Running
17	Preparation of Xylanase-producing strain		NIGEB Grant No: T120	1,709,000,000	Running

XXI: INTERNATIONAL/NATIONAL GRANTS

1. Functional Genomics of an Extermophile Chitinase Isolated from Shrimp Pond. International Foundation for Science (IFS). **Swedish: 10,000 USD**. 2011.
<https://www.ifs.se/IFS/Documents/Publications/Annual%20reports/IFS%20Annual%20Report%202009.pdf>
2. Purification and Biochemical Characterization of Thermostable Chitinase from *Cohnella* A01 and its Biocontrol Potential. International Foundation for Science (IFS). **Swedish: 12,000 USD**. 2014.
<https://www.ifs.se/search-grantees.html>
3. Site directed mutagenesis in *Serratia marcescens* B4A antifungal chitinase gene in order to enhancement of stability. Iran National Science Foundation (INSF). **150,000,000 IRR**. 2017.
<https://rtms.insf.org/ProposalCertificate.php?ID=CU5XH0HJ4H28X4>
4. Heterologous expression of indigenous thermophilic cellulase. The world academy of sciences (TWAS): **5,000 USD**. TWAS is based in Trieste, **Italy**. 2017.
5. Design, expression and characterization of new fusion peptide contains integrin and Fibrin derived peptide, for potential tissue regeneration applications. Iran National Science Foundation (INSF). **200,000,000 IRR**. 2020.

6. Heterologous Expression, Product Optimization, Biochemical Characterization and Antifungal activity of Thermostable CelC307 Cellulase. Iran National Science Foundation (INSF). **200,000,000** IRR. 2020
<https://rtms.insf.org/ProposalCertificate.php?ID=9KFKXXRF3I3N9Y6M&isCoPiShown=0>
7. Heterologous expression, biochemical and anticancer characterization of thermotolerant novel L-Glutaminase. Iran National Science Foundation (INSF). **150,000,000** IRR. 2022.
<https://rtms.insf.org/ProposalCertificate.php?ID=L0PZIMR5RALAQ1XH>
8. Cloning, heterologous expression, product optimization by experiment design method and investigation of biochemical and kinetic properties of native thermostable Amylopullulanase. Iran National Science Foundation (INSF). **300,000,000** IRR. 2023. under evaluation.
9. Decoding the cytotoxic effects of Acid yellow17 on calf thymus DNA by in vitro and in vivo studies. Iran National Science Foundation (INSF). **2,080,000,000** IRR. 2023-2024.

XXII: Press Interview

1. Plasma program; Radio Javan; winter 2008: Industrial Enzymes.
2. Ettelaat Newspaper; 1/ Dec/2008: Pectinolytic Enzymes.
3. Iran e Emrooz Radio Iran. 2021.
 - https://drive.google.com/file/d/1ItudBtm62sDw7IrT6PiBW1Oh2HST2ePI/view?usp=drive_link
 - https://drive.google.com/file/d/16DY1gj9uG15WL_AAEued8NALeA_ssfbg/view?usp=drive_link
4. Nama Do, Shabke 2. IRIB. 2022.
<https://drive.google.com/file/d/1piPS8eUaxPjhogiiOwSLDMQKsJVtoSrw/view?usp=sharing>
5. Iran Bioeconomic Forum, Biotechnology Development Council. 2023.
https://drive.google.com/file/d/1q41KKrnTAN4ouDH-wDGPOv_OWWVJC8db/view?usp=sharing

XXIII: Research Interest

Covers a range of topics related to Health Biotechnology, Biochemistry, Enzyme Technology, Biological production of Industrial enzyme, Biodegradation of hazardous wastes, Different Aspects of Molecular Biology of Microorganisms.

XXIV: Postdoctoral Course Student

Hashemi Shahraki, F. Decoding the cytotoxic effects of Acid yellow17 on calf thymus DNA by in vitro and in vivo studies. 2023-2024.

XXIV: Supervised Student Thesis

Ph.D Thesis:

1. Zarei, M. Dec. 2010. "Production of Biological Product "Chitinase" from Micro-organisms in Shrimp Farming Wastewater". Faculty of Marine Sciences, Khorramshahr Marine Sciences and Technology University, Khorramshahr, Iran.
2. Mirzayi, S. 2011, "The effect of non-starch polysaccharides on intestinal enzyme activity and performance of layer hens". Department of Animal Science, Faculty of Agriculture, Tehran University, Karaj, Iran.
3. Bakhshi, A .2022, Heterologous expression, physicochemical characterization and Biological activity of insulin Lispro hormone in *Escherichia coli*. National Institute for Genetic Engineering and Biotechnology.
4. Mosallatpour S. 2022, Heterologous expression, biochemical and kinetic characterization of thermotolerant L glutaminase and assess its effect on the cancer cells. Department of Biology. Payam Noor University.
5. Naeemi S. M. 2023. Expression of thermostable native *Cohnella* sp. A01 carboxypeptidase and biochemical, kinetic characterization and determination of its inhibitory effect on tumor cells growth. Islamic Azad University, Tehran Medical Sciences Branch, Faculty of Advanced Science and Technology, Department of Cellular and Molecular Biology.

M.Sc Thesis:

1. Keshavarz, M. Sept. 2010. "Production, Purification, and Characterization of Chitinase from Native Bacterial strain." Biotechnology Dept., Islamic Azad University. Tehran, Iran.
2. Babashpour, S. Sept. 2010. "Cloning and Expression of Chitinase Gene from a Native Bacterium." Biotechnology Dept., Islamic Azad University. Tehran, Iran.
3. Aliabadi, N. Dec. 2010. "Isolation of thermostable chitinase – producing bacterial strain from Shrimp farming Pools and biochemical characterization of the efficient chitinase". National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
4. Mortazavi, M. "Cloning and expression of thermophilic chitinase gene". Biotechnology Dept., Sahed University. Tehran. Iran.
5. Abiri, N. "Purification of thermophilic chitinase from a native microorganism and investigation of it's kinetically parameters for the purpose of inhibiting the growth of plant pathogens fungus." Biotechnology Dept., Islamic Azad University. Karaj, Iran.
6. Abazari, N. "Isolation, production, and characterization of a pectinase from plant pathogens." Biotechnology Dept., Islamic Azad University. Karaj, Iran.
7. Soezi, M. "Designing and construction of recombinant pPIGFP plasmid expressing HIV-1." National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
8. Adibzadeh, N. "Isolation and subunit characterization of collagen from the body wall sea cucumber *Holothuria*." Marine Biotechnology Dept., Islamic Azad University. Tehran, Iran.

9. Asareh, R. "Isolation and characterization of native cellulose-degrading bacteria. Faculty of Agriculture. Payame Noor University. Tehran, Iran.
10. Gholami, D. "Possible of achievement to bacteriocin which controlling citrous canker disease bacteria. The University of Sistan & Baluchestan graduate school. Biochemistry. Zahedan, Iran.
11. Emroozi Z" Study of S390I and G191V mutations in *Serratia marcescens* B4A Chitinase gene with Quik Change Site Directed Mutagenesis method for enzyme stability improvement. National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
12. Poureidy B." Cloning and expression of lipase from thermophilic Indigenous *Cohnella* sp. National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
13. Amini Y." Cloning and expression of thermophilic (1->3)-(1->4)-beta-D-glucan 4-glucanohydrolase (Coh02511), from *Cohnella*-A01. Islamic Azad University. Pharmaceutical Branch Advanced Science & Technology Faculty
14. Goharipour A. "Cloning, expression and Biochemical Characterization of Amylopullulanase Coh01136." Kharazmi University, Faculty of science.
15. Zebardast F. "Cloning, expression and Biochemical Characterization of Amylopullulanase Coh0831". Payam Noor University, Karaj Branch.
16. Fahimi E. "Production, Purification and Study of M. phaseolina polygalacturonase Inhibitors" Shahrood Industrial University. Faculty of Agricultural Biotechnology.
17. Hajjyan F. "Comparative modeling of a β -Galactosidase from *Cohnella* A01 and performing in silico point mutation for increasing thermal stability and catalytic activity.
18. Shafiei S.M. "Cloning, expression, purification and partial biochemical characterization of the laccase enzyme of native strain of thermophilic bacterium *Cohnella* sp. A01."
19. Karimi Z. "Heterologous expression of superoxide dismutase from thermophilic bacterium *Cohnella* sp. A01."
20. Afraz S. "Heterologous expression of a pectate lyase from *Cohnella* sp. A01."
21. Javaheri Z. "Isolation, screening and identification of cyanide resistant bacteria and study of partial biochemical characterization of bacterial degrading enzyme".
22. Saghiyan R. "Heterologous expression of protease 1759 from thermophilic bacterium *Cohnella* sp. A01."
23. Mohammadi S. "Heterologous expression of Cellulase from thermophilic bacterium *Cohnella* sp. A01."
24. Banaeian S. "Characterization of beta 1,3 glucanase isolated from *Cohnella* sp. A01.
25. Hasani, F. Characterization of thermophilic Amylopoulolanase isolated from *Cohnella* sp. A01.
26. Fotouhi, F. Study of Hyaluronic acid production and its increasing by some GRAS bacteria.
27. Jafari. Y. Isolation and Biochemical characterization of urease produced by native *Staphylococcus*.
28. Moktai. E. Determining and investigating the properties of cysteine protease immobilized on mesoporous silica nanoparticles.
29. Velayatipou F. Heterologous expression and investigation of biological and biochemical properties of chitin-binding protein 2 from *Moringa oleifera*.

30. Expression of engineered peptide fragment of human endostatin 1 to 49 in *Escherichia coli*.
31. Aghighi Y. Optimizing the production process of heat-resistant recombinant protease 1147 and investigating the activity of the stabilized enzyme.
32. Vaghedashti S. Expression and determination of the connection property of alpha 2 beta 1 integrin region with type 1 collagen.
33. Mohammadpour N. Heterologous expression of cysteine protease enzyme 1147 in *Bacillus subtilis*.
34. Derakhshan M. Design, cloning, expression and purification of a peptide derived from human endostatin protein.

XXVI: Advisor Student Thesis

Ph.D Thesis:

1. Esamaeilipour, O. "Effects of xylanase enzyme and diet acidification on the performance, nutrient digestibility and characteristics of gastrointestinal tract of broiler chickens in wheat base diets." Department of Animal Science, Faculty of Agriculture, Tehran University, Karaj, Iran.
2. Mohiti, M. "Effects of Dietary Fibers and Protein on Performance, Gut Morphology and Fat Metabolism in Broiler Breeder Hens". Department of Animal Science, Faculty of Agriculture, Tehran University, Karaj, Iran.
3. Pornour, M. "The study of dopamine receptors and Catechol amine-O-methyl transferase genes expression changes and their pharmacogenetic effect on apoptosis in breast cancer patients. National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
4. Hoseini H. Evaluation of PD1 and PDL1 polymorphisms; their expression and evaluation of oxidative stress indices in patients with lymphoma compared to healthy individuals.
5. Parvin A. A comparative study of the effect of quercetin and the effect of hydroalcoholic extract of *Otostegia Persica* Bioss with atorvastatin on atherosclerosis in male Wistar rats.
6. Zahroojian N. Comparison of the energy value of corn seed and soybean meal for broilers, broilers and commercial laying hens.

M.Sc Thesis:

1. Vesagh, Z. "Recombinant protein generation against canis sperm." National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.
2. Tabatabayi, M. "Heterologous expression of *canis familiaris* AKAP4." Shahid Bahonar University of Kerman. Faculty of Agriculture. Department of Animal Science.
3. Mohammadi, F. "The association between MMP-7(-181 A:G) genotypes with the risk of multiple sclerosis." Islamic Azad University. Pharmaceutical Branch Advanced Science & Technology Faculty.
4. Khaleghinejad S. H. "Investigation the effect of substitution Phe¹⁷ with Ser on enzyme activity in chimeric *Bacillus thermocatenulatus* Lipase." University of Zabol, Faculty of Science, Department of Biology.
5. Kazemzadeh S. "Study on the interaction of fungi with plant pathogenic bacteria for its biocontrol." Shahrood University of Technology, Faculty of Agronomy and plant Breeding.
6. Paydarzadeh M. "production of polyclonal antibody against of *Xanthomonas citri* subsp. Citri. National Institute of Genetic Engineering and Biotechnology. Tehran, Iran.

7. Valiollahi P. "Study of recombinant amylopullulanase coh4159 from *Cohnella*" Payam Noor University, Karaj Branch.
8. Rezayi M. "Partial Biochemical Characterization of β -glucanase isolated from native thermophilic bacteria *Cohnella* sp. A01" Kharazmi University, Faculty of science.
9. Dejam Z. "Mitochondrial Proteomics Study of High Oleic and Low Oleic Iranian Olive Germplast. Islamic Azad University, Science and Research Branch, Tehran.
10. Tarrahi M. "Heterologous expression of protease 1147 from thermophilic bacterium *Cohnella* sp. A01."
11. Malmir N. Screening and Isolation cyanide resistance fungal and cloning of cyanide degrading enzyme.
12. Soltani N. Investigating the activity of oxidoreductases in different stages of *Lithospermum Officinal* callus growth.
13. Mirbak R. The effect of post-hatching feeding with hydrated feed containing probiotics on the performance of broiler chickens.
14. Rouhzنده Y. Effect of post-hatch feeding with nutrient-enriched hydrated diet on gastrointestinal health of broiler chicken.
15. Sajed R. Synthesis and expression of gamma interferon in *Escherichia coli*.
16. Chaharmahali M. Optimization of alpha-amylase production process in batch fermenter using *Bacillus licheniformis* ATCC14580.
17. Zarei O. Effect of post-hatch feeding with hydrated diet supplemented with probiotic on gastrointestinal health of turkey chicken.
18. Zanghaneh R. Investigating the immunogenicity of recombinant protein containing the epitope of IZUMO, PH-20 and SPACA3 proteins on the fertility of female mice.

XXVII: Sabatical Student

1. Zahroojian N. Ph.D. of Animal Biotechnology. 2017-2018.

XXVIII: Bacterial Registration

1. PTCC 1908 *Bacillus* sp. MO1 strain (affiliated to *Bacillus subtilis* group); Isolated from soil, Moute Gold Mine, Isfahan Province, Iran. Used for degradation of Cyanide. Medium of growth: Nutrint broth/agar (PTCC2), Incubation temperature 37 °C, Aerobic, Risk group: 1
<https://irost.org/ptcc/ptccdb/node/741>
2. PTCC 1909 *Enterobacter* sp. ZS strain. Isolated from soil, Moute Gold Mine, Isfahan Province, Iran. Used for degradation of Cyanide. Medium of growth: Nutrint broth/agar (PTCC2), Incubation temperature 37 °C, Aerobic, Risk group: 2
<https://irost.org/ptcc/ptccdb/node/742>
3. PTCC 1921 *Cohnella* sp. A01 strain; Isolated from shrimp farming pond, Choebdeh region, Abadan, Khuzestan Province, Iran. Medium of growth: Nutrint broth/agar (PTCC2), Incubation temperature 50 °C, Aerobic, Risk group: 1

XXIX: Gene Registration

1. *Cohnella* sp. strain A01 superoxide dismutase gene, complete cds. Accession: MW177877.1
<https://www.ncbi.nlm.nih.gov/nuccore/2101448972>
2. *Cohnella* sp. A01 laccase gene, partial cds. Accession: KP724697.1
<https://www.ncbi.nlm.nih.gov/nuccore/KP724697.1>

3. *Cohnella* sp. A01 amylopullulanase (Coh00831) gene, partial cds. Accession: KP335161.1
<https://www.ncbi.nlm.nih.gov/nuccore/KP335161.1>
4. *Cohnella* sp. A01 amylopullulanase (Coh01133) gene, partial cds. Accession: KP335160.1
<https://www.ncbi.nlm.nih.gov/nuccore/KP335160.1>
5. *Cohnella* sp. A01 glutamine amidotransferase gene, complete cds. Accession: MF683464.1
<https://www.ncbi.nlm.nih.gov/nuccore/MF683464.1>
6. *Cohnella* sp. A01 intracellular protease gene, complete cds. Accession: MF683463.1
<https://www.ncbi.nlm.nih.gov/nuccore/MF683463.1>
7. *Cohnella* sp. A01 amylopullulanase gene, complete cds. Accession: KX013443.1
<https://www.ncbi.nlm.nih.gov/nuccore/KX013443.1>
8. *Cohnella* sp. A01 beta-glucanase gene, complete cds. Accession: KX013442.1
<https://www.ncbi.nlm.nih.gov/nuccore/KX013442.1>
9. *Enterobacter* sp. ZS 16S ribosomal RNA gene, partial sequence. Accession: KU609073.1
<https://www.ncbi.nlm.nih.gov/nuccore/KU609073.1>
10. *Bacillus subtilis* strain M01 16S ribosomal RNA gene, partial sequence. Accession: KR996794.1
<https://www.ncbi.nlm.nih.gov/nuccore/KR996794.1>
11. *Cohnella* sp. A01 beta-galactosidase gene, partial cds. Accession: KM016464.1
<https://www.ncbi.nlm.nih.gov/nuccore/KM016464.1>
12. *Cohnella* sp. A01 endo-1,6-beta-D-glucanase gene, complete cds. Accession :KU058957.2
<https://www.ncbi.nlm.nih.gov/nuccore/KU058957.2>
13. *Cohnella* sp. A01 lipase 3646 gene, complete cds. Accession :JX833623.1
<https://www.ncbi.nlm.nih.gov/nuccore/JX833623.1>
14. *Aspergillus awamori* strain K-03 18S ribosomal RNA gene, partial sequence. Accession: KF922319.1
<https://www.ncbi.nlm.nih.gov/nuccore/KF922319.1>
15. *Geobacillus* sp. enrichment culture clone RA-155 16S ribosomal RNA gene, partial sequence. Accession: JQ083172.1
<https://www.ncbi.nlm.nih.gov/nuccore/JQ083172.1>
16. *Enterobacter* sp. DGH3 16S ribosomal RNA gene, partial sequence. Accession: JX308306.1
<https://www.ncbi.nlm.nih.gov/nuccore/JX308306.1>
17. *Cronobacter* sp. DGH1 16S ribosomal RNA gene, partial sequence. Accession: JQ999984.1
<https://www.ncbi.nlm.nih.gov/nuccore/JQ999984.1>
18. *Paenibacillus* sp. A01 chitinase gene, complete cds. Accession: JQ675723.1
<https://www.ncbi.nlm.nih.gov/nuccore/JQ675723.1>
19. *Geobacillus* sp. enrichment culture clone RA-555 16S ribosomal RNA gene, partial sequence. Accession: JQ083173.1
<https://www.ncbi.nlm.nih.gov/nuccore/JQ083173.1>
20. *Chryseobacterium* enrichment culture clone RA-M137 16S ribosomal RNA gene, partial sequence. Accession: JQ083171.1
<https://www.ncbi.nlm.nih.gov/nuccore/JQ083171.1>

21. *Bacillus* sp. enrichment culture clone RA-137 16S ribosomal RNA gene, partial sequence. Accession: JQ083170.1
<https://www.ncbi.nlm.nih.gov/nucore/JQ083170.1>
22. *Bacillus* sp. enrichment culture clone RA-455 16S ribosomal RNA gene, partial sequence. Accession: JQ083168.1
<https://www.ncbi.nlm.nih.gov/nucore/JQ083168.1>
23. *Cohnella* sp. A01 16S ribosomal RNA gene, partial sequence. Accession: JN208862.1
<https://www.ncbi.nlm.nih.gov/nucore/JN208862.1>
24. *Serratia marcescens* strain B4A chitinase gene, complete cds. Accession: HM473183.1
<https://www.ncbi.nlm.nih.gov/nucore/HM473183.1>
25. *Serratia marcescens* strain B4A 16S ribosomal RNA gene, partial sequence. Accession: HM535665.1
<https://www.ncbi.nlm.nih.gov/nucore/HM535665.1>
26. *Bacillus* sp. enrichment culture clone RA-436 16S ribosomal RNA gene, partial sequence. Accession: JQ083169.1
<https://www.ncbi.nlm.nih.gov/nucore/JQ083169.1>
27. *Cohnella* sp. A01 lysozyme gene, complete cds. Accession: OP219816
<https://www.ncbi.nlm.nih.gov/nucore/OP219816.1>
28. Synthetic construct AFF-Mo-CBP2 gene, complete cds. Accession: MW403982.1
<https://www.ncbi.nlm.nih.gov/nucore/MW403982.1>
29. Synthetic construct H-insulin gene, complete cds. Accession: MW291082.1
<https://www.ncbi.nlm.nih.gov/nucore/MW291082.1>
30. Synthetic construct SUMO-Lispro proinsulin fusion protein gene, complete cds. Accession: MW291010.1
<https://www.ncbi.nlm.nih.gov/nucore/MW291010.1>
31. *Cohnella* sp. A01 Coh01740.n aminopeptidase 2 gene, partial cds. Accession: MN833800.1
<https://www.ncbi.nlm.nih.gov/nucore/MN833800.1>
32. *Cohnella* sp. strain A01 xylanase B (xynB) gene, partial cds. Accession: MN882598.1
<https://www.ncbi.nlm.nih.gov/nucore/MN882598.1>
33. *Cohnella* sp. strain A01 endoglucanase C307 gene, complete cds. Accession: MN105992.1
<https://www.ncbi.nlm.nih.gov/nucore/MN105992.1>
34. *Cohnella* sp. A01 intracellular protease gene, complete cds. Accession: MK645908.1
<https://www.ncbi.nlm.nih.gov/nucore/MK645908.1>
35. *Cohnella* sp. strain A01 glutaminase gene, complete cds. Accession: MH973594.1
<https://www.ncbi.nlm.nih.gov/nucore/MH973594.1>