

Curriculum Vitae (CV)

Reza H. Sajedi

Speciality: Biochemistry

Academic Status: Associate Prof.

PhD: Biochemistry

MS: Biochemistry

BS/BA: Cellular and Molecular Biology



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Gene Discovery and Sequence

KF305836: Synthetic construct clone G50E mnemiopsis 2 gene, complete cds (2013)

JX412231: *Serratia* sp. ZF03 metalloprotease gene, partial cds (2012).

HQ917115: *Loranthus grewingkii* voucher GUH-3998 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast (2011).

HQ917114: *Loranthus europaeus* voucher GUH-3997 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast (2011).

HQ917113: *Viscum laxum* voucher GUH-3996 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast (2011).

HQ917112: *Viscum album* voucher GUH-3995 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast (2011).

HQ917111: *Loranthus grewingkii* voucher GUH-3994 18S ribosomal RNA gene, partial sequence; and internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence (2011).

HQ917110: *Loranthus europaeus* voucher GUH-3993 18S ribosomal RNA gene, partial sequence; and internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence (2011).

HQ917109: *Arceuthobium oxycedri* voucher GUH-3992 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2011).

HQ917108: *Viscum laxum* voucher GUH-3991 internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence (2011).

HQ917107: *Viscum album* voucher GUH-3990 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2011).

GQ884176: *Geobacillus* sp. Gh6 Maltogenic amylase gene, complete cds (2010).

GQ231544: *Mnemiopsis leidyi* mnemiopsin 1 mRNA, complete cds (2010).

GQ884175: *Mnemiopsis leidyi* Mnemiopsin 2 mRNA, complete cds (2010).

HM756253: *Viola kitaibeliana* voucher ARI-33184 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, complete sequence; and 5.8S ribosomal RNA gene, partial sequence (2010).

HM756252: *Viola sibirica* voucher GUH-13658 internal transcribed spacer 2 and 28S ribosomal RNA gene, partial sequence (2010).

HM756251: *Viola sibirica* voucher GUH-13658 18S ribosomal RNA gene and internal transcribed spacer 1, partial sequence (2010).

HM756250: *Viola caspia* voucher GUH-13661 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM486500: *Viola caspia* voucher GUH-13686 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM486499: *Viola alba* subsp. *alba* voucher GUH-13684 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851445: *Viola caspia* voucher GUH-13653 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851446: *Viola caspia* x *Viola reichenbachiana* voucher GUH-13687 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851447: *Viola reichenbachiana* voucher GUH-13652 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1 and 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence (2010).

HM851448: *Viola rupestris* voucher GUH-13485-2 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851449: *Viola alba* voucher GUH-13655 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851450: *Viola alba* voucher GUH-13688 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851451: *Viola odorata* voucher GUH-13657 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851452: *Viola occulta* voucher GUH-13654 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851453: *Viola occulta* voucher GUH-13659 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851454: *Viola arvensis* voucher TARI-81800 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851455: *Viola tricolor* voucher GUH-13656 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851456: *Viola spathulata* voucher TUH-17232 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

HM851457: *Viola somchetica* voucher GUH-13674 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence (2010).

GU169706: *Utricularia minor* tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast (2009).

EU380314: *Bacillus cereus* strain GUF8 alpha amylase gene, complete cds (2008).

EU380315: *Artemia urmiana* artemin mRNA, complete cds (2008).

EU169574: *Bacillus* sp. GUF8 16S ribosomal RNA gene, partial sequence (2007).

EU183349: *Bacillus* sp. GUS1 16S ribosomal RNA gene, partial sequence (2007).

AY841124: *Bacillus* sp. KR-8104 alpha-amylase precursor, gene, partial cds (2004).

Publication

1. SEYED ALI HEMMATI, **REZA H. SAJEDI**, SAEID MOHARRAMPOUR, MAJID TAGHDIR, HOSSEIN RAHMANI, SEYED MASOUD ETEZAD and MOHAMMAD MEHRABADI, Biochemical characterization and structural analysis of trypsin from *Plodia interpunctella* midgut: Implication of determinants in extremely alkaline pH activity profile, *Phys. Entom.* 2017 [In Press].
2. S. Tarahomi, **R. H. Sajedi**, H. Rahmani, B. Ranjbar, M. Taghdir, Ca²⁺ binding and conformational switch of the photoprotein mnemiopsin, *Protein Pept Lett.* 24, 1-7, 2017.
3. Zahra Khosravi, Mohammad-Ali Nasiri-Khalili, Sharif Moradi, **Reza H. Sajedi**, Mehdi Zeinoddini, The molecular chaperone Artemin efficiently blocks fibrillization of TAU protein *in vitro*, *Cell Journal*, 2017 [In Press].

4. F. Rashno, K. Khajeh, C. Capitini, **R. H. Sajedi**, M. M. Shokri, F. Chiti, Very rapid amyloid fibril formation by a bacterial lipase in the absence of a detectable lag phase, *Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics* 1865 (6), 652-663, 2017.
5. Mahmoud Salehi, Mahmoud Reza Aghamaali, **Reza H. Sajedi**, S. Mohsen Asghari, Eisa Jorjani Purification and characterization of a milk-clotting aspartic protease from *Withania coagulans* fruit, *International Journal of Biological Macromolecules*, 2017 [In Press].
6. Jalilian, N., **Sajedi**, R.H., Shanehsaz, M. Gharaat, M. CdTe quantum dots with green fluorescence generated by bioluminescence resonance energy transfer from aequorin, *Microchimica Acta*, 184(3), 753-762, 2017.
7. Parvaneh Rahmati, **Reza H. Sajedi**, Parichehr Zamani, Hossein Rahmani, Khosro Khajeh, Allosteric properties of *Geobacillus* maltogenic amylase, *Enzyme and Microbial Technology*, Volume 96, Pages 36-41, 2017.
8. Zeinab Takalloo, **Reza H. Sajedi**, Saman Hosseinkhani, Taghi Moazzenzade, Artemin protects cells and proteins against oxidative and salt stress, *International Journal of Biological Macromolecules*, Volume 95, Pages 618-624, 2017.
9. Mahboobeh Sharifi, Mohammad Ghadamyari, Khodayar Gholivand, Ali Asghar Ebrahimi Valmoozi, **Reza H. Sajedi**, Characterization of acetylcholinesterase from elm leaf beetle, *Xanthogaleruca luteola* and QSAR of temephos derivatives against its activity, *Pesticide Biochemistry and Physiology*, Volume 136, Pages 12-22, 2017.
10. Zaiddodine Pashandi, Maryam Molakarimi, **Reza H. Sajedi**, Majid Taghdir, Hossein Naderi-Manesh, Light induced structural changes of the photoprotein mnemiopsin: Characterization and contribution in photoinactivation, *Journal of Photochemistry and Photobiology B: Biology*, Volume 165, Pages 133-140, 2016.
11. Zeinab Takalloo, **Reza H. Sajedi**, Saman Hosseinkhani, S. Mohsen Asghari, Real-time monitoring of artemin in vivo chaperone activity using luciferase as an intracellular reporter, *Archives of Biochemistry and Biophysics*, Volume 610, 2016, Pages 33-40.
12. Mona Atabakhshi-Kashi, Malihe Mohammadi, Reihaneh Mirhassani, Bahareh Dabirmanesh, **Reza H. Sajedi**, Khosro Khajeh, An alternative allosteric pathway in thermophilic methylglyoxal synthase, *International Journal of Biological Macromolecules*, 93, Pages 526-533, 2016.
13. Zahra Goudarzi, Seyed Abbas Shojaosadati, **Reza H. Sajedi**, and Amir Maghsoudi, Optimization of Auto-induction Conditions for the Heterologous Expression of a Maltogenic Amylase in *Escherichia coli*, *Applied Food Biotechnology*, 3 (2): 105-113, 2016.
14. Navvabeh Salarizadeh, Sadegh Hasannia, **Reza H. Sajedi**, Navid Lamei, Afshin Mohsenifar, Kambiz Akbari Noghabi, Comprehensive study of serratia peptidase immobilization from *Serratia* sp. ZF03 onto chitosan nanogels, *Turkish Journal of Biochemistry*, 41(6) Pages 377–383, 2016.
15. Parichehr Zamani, **Reza H. Sajedi**, Saman Hosseinkhani, Mehdi Zeinoddini, Hybridoma as a specific, sensitive, and ready to use sensing element: a rapid fluorescence assay for detection of *Vibrio cholerae* O1, *Analytical and Bioanalytical Chemistry*, 408: 6443, 2016.
16. Nezam Jalilian, Maryam Shanehsaz, **Reza H. Sajedi**, Morteza Gharaat, Ramin Ghahremanzadeh, Improving the luminescence properties of aequorin by conjugating to CdSe/ZnS quantum dot nanoparticles: Red shift and slowing decay rate, *Journal of Photochemistry and Photobiology B: Biology*, 162, Pages 153-161, 2016.
17. Forough Hakiminia, Maryam Molakarimi, Khosrow Khalifeh, Zohreh Jahani, **Reza H. Sajedi**, Bijan Ranjbar, Adjustment of local conformational flexibility and accessible surface area alterations of Serine128 and Valine183 in mnemiopsin, *Journal of Molecular Structure*, Volume 1117, Pages 287-292, 2016.
18. Zahra Dadshahi, Ahmad Homaei, Farrokhzad Zeinali, **Reza H. Sajedi**, Khosro Khajeh, Extraction and purification of a highly thermostable alkaline caseinolytic protease from

- wastes *Litopenaeus vanamei* suitable for food and detergent industries, *Food Chemistry*, 202, Pages 110-115, 2016.
19. Zahra Sobhani-Damavandifar, Saman Hosseinkhani, **Reza Hassan Sajedi**, Proposed ionic bond between Arg300 and Glu270 and Glu271 are not involved in inactivation of a mutant firefly luciferase (LRR), *Enzyme and Microbial Technology*, 86, Pages 17-24, 2016
20. F Hakiminia, K Khalifeh, **RH Sajedi**, B Ranjbar, Determination of structural elements on the folding reaction of mnemiopsin by spectroscopic techniques, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 158, Pages 49-55, 2016
21. P Zamani, **RH Sajedi**, S Hosseinkhani, M Zeinoddini, B Bakhshi, A luminescent hybridoma-based biosensor for rapid detection of *V. cholerae* upon induction of calcium signaling pathway, *Biosensors and Bioelectronics*, 79 , Pages 213-219, 2016.
22. B Pourjabbar, L Hassani, **RH Sajedi**, Investigating the effect of structural transition on aggregation of β -lactoglobulin, *Protein and peptide letters*, 22(12):1089-97. 2015.
23. Roohullah Hemmati, Saman Hosseinkhani, **Reza H Sajedi**, Taha Azad, Amin Tashakor, Nuredin Bakhtiari, Farangis Ataei, Luciferin-Regenerating Enzyme Mediates Firefly Luciferase Activation Through Direct Effects of D-Cysteine on Luciferase Structure and Activity, *Photochemistry and photobiology*, 91:4, Pages 828–836, 2015.
24. Gharanlar J, Hosseinkhani S, **Sajedi RH**, Yaghmaei P, The Effect of Surface Charge Saturation on Heat-induced Aggregation of Firefly Luciferase, *Photochemistry and photobiology* 91(5):1156-64, 2015.
25. S. Shirin Shahangian, **Reza H. Sajedi**, Sadegh Hasannia, Shirin Jalili, Mohammad Mohammadi, Majid Taghdir, Abbas Shali, Kamran Mansouri, Reyhaneh Sariri, A conformation-based phage-display panning to screen neutralizing anti-VEGF VHHs with VEGFR2 mimicry behavior, *Int. J. Biol. Macromol.* 77, 222-234, 2015.
26. A Mahdavi, **RH Sajedi**, S Hosseinkhani, M Taghdir, Hyperactive Arg39Lys mutated mnemiopsin: implication of positively charged residue in chromophore binding cavity, *Photochemical & Photobiological Sciences* 14 (4), 792-800, 2015.
27. Sharifi M, Ghadamyari M, **Sajedi RH**, Mahmoodi NO. Effects of 4-hexylresorcinol on the phenoloxidase from *Hyphantria cunea* (Lepidoptera: Arctiidae): *In vivo* and *in vitro* studies. *Insect Sci.* 22(5):639-50, 2015.
28. Fateme Ahmadi, **Reza H. Sajedi**, Atiyeh Mahdavi, Mehdi Zeinoddini and Majid Taghdir, Directed improvement of i-Photina bioluminescence properties, an efficient calcium-regulated photoprotein. *Biomacromol. J.* 1 (1), 80-92, 2015.
29. R Hemmati, **RH Sajedi**, N Bakhtiari, S Hosseinkhani, Directed Improvement of Luciferin Regenerating Enzyme Binding Properties: Implication of Some Conserved Residues in Luciferin-Binding Domain, *Photochem. Photobiol.* 90 (6), 1293-1298, 2014.
30. Navvabeh Salarizadeh; Sadegh Hasannia; Kambiz Akbari Noghabi; **Reza H. Sajedi**, Purification and Characterization of 50 kDa Extracellular Metalloprotease from *Serratia* sp. ZF03, *Iran. Biotechnol. J.* 12(3) Page 18-27, 2014.
31. Nima Chand, **Reza H. Sajedi**, Ali Shams Nateri, Khosro Khajeh, Mehdi Rassa. Fermentative desizing of cotton fabric using an alpha-amylase-producing *Bacillus* strain: Optimization of simultaneous enzyme production and desizing. *Process Biochem.* 49 (11), 1884-1888, 2014.
32. Ghavamipour F, Shahangian SS, **Sajedi RH**, Arab SS, Mansouri K, Aghamaali MR. Development of a highly-potent anti-angiogenic VEGF8-109 heterodimer by directed blocking of its VEGFR-2 binding site. *FEBS J.* 2014 Oct;281(19):4479-94.
33. P. Zamani, **R. H. Sajedi**, M. Ghadamyari, and N. Memarizadeh, Resistance Mechanisms to Chlorpyrifos in Iranian Populations of the Two-spotted Spider Mite, *Tetranychus urticae* (Acari: Tetranychidae), *J. Agr. Sci. Tech.* (2014) Vol. 16: 277-289.

34. N. Memarizadeh, P. Zamani, **R. H. Sajedi**, and M. Ghadamyari, Purification and Characterization of Midgut α -Glucosidase from Larvae of the Rice Green Caterpillar, *Naranga aenescens* Moore. *J. Agr. Sci. Tech.* (2014) Vol. 16: 1229-1240.
35. M. Gholamzadeh Chitgar, M. Ghadamyari, M. Sharifi, **R. H. Sajedi**, PARTIAL CHARACTERIZATION OF DIGESTIVE CARBOHYDRASES IN THE MIDGUT OF FIG TREE SKELETONIZER MOTH, *CHOREUTIS NEMORANA* HÜBNER (LEPIDOPTERA: CHOREUTIDAE). *Trakia Journal of Sciences*, No 1, pp 27-37, 2014.
36. Mahdavi A, Ghadamyari M, **Sajedi RH**, Sharifi M, Kouchaki B. Identification and partial characterization of midgut proteases in the lesser mulberry pyralid, *Glyphodes pyloalis*. *J. Insect Sci.* 2013;13:81.
37. M. Hatami, A. Hatamzadeh, M. Ghasemnezhad, **R. H. Sajedi**, ANTIOXIDANT ENZYMATIC PROTECTION DURING *PELARGONIUM* PLANT LEAF SENESCENCE IS MEDIATED BY THIDIAZURON. *Trakia Journal of Sciences*, No 2, pp 152-157, 2013.
38. Memarizadeh N., Ghadamyari M., Zamani P. and **Sajedi R.H.** Resistance mechanisms to abamectin in Iranian populations of the two-spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae), *ACAROLOGIA* 53(3) pages: 235-246 (2013).
39. Samira Nasrollahi, Leila Golalizadeh, **Reza H. Sajedi**, Majid Taghdir, S. Mohsen Asghari, Mehdi Rassa, Substrate preference of a *Geobacillus* maltogenic amylase: A kinetic and thermodynamic analysis, *Int. J. Biol. Macromol.* Vol 60, Pages 1-9 (2013).
40. Leila Hassani, **Reza H. Sajedi**, Effect of artemin on structural transition of β -lactoglobulin, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 105, 24-28 (2013).
41. Atiyeh Mahdavi, **Reza H. Sajedi**, Saman Hosseinkhani, Majid Taghdir and Reyhaneh Sariri, Site-directed mutagenesis of photoprotein mnemiopsin: implication of some conserved residues in bioluminescence properties, *Photochemical & Photobiological Sciences* 12, 467-478 (2013).
42. Mahboobeh Sharifi , Mohammad Ghadamyari , **Reza H. Sajedi**, Mohsen Zavareh and Hadi Sheikhejad Insecticidal effects of 4-hexylresorcinol on the lesser mulberry snout moth, *Glyphodes pyloalis* Walker, *Archives of Phytopathology and Plant Protection* (2012) [In Press].
43. Masoomeh Bagheri-Kalmarzi, **Reza H. Sajedi**, Elham Asadollahi, Nosrat O. Mahmoodi and Reza Hajhosseini, Effect of vanillin and its acid and alcohol derivatives on the diphenolase activity of mushroom tyrosinase, *Molecular Biology Research Communications* 1(2):74-82 (2012).
44. Ameneh Asadi, Mohammad Ghadamyari, **Reza H. Sajedi**, Jalal J. Sendi & Mehrdad Tabari, Biochemical characterization of α - and β -glucosidases in alimentary canal, salivary glands and haemolymph of the rice green caterpillar, *Naranga aenescens* M. (Lepidoptera: Noctuidae), *Biologia*, 67 (6) (2012).
45. Nima Chand, Ali Shams Nateri, **Reza H. Sajedi**, Atiyeh Mahdavi, Mehdi Rassa Enzymatic desizing of cotton fabric using a Ca^{2+} -independent α -amylase with acidic pH profile, *J. Mol. Catal. B: Enzym.* 83:46– 50 (2012).
46. M. Ghasemnezad, Somayeh Zareh, Mehdi Rassa, and**Reza H. Sajedi**, Effect of chitosan coating on maintenance of aril quality, microbial population and PPO activity of pomegranate (*Punica granatum* L. cv. Tarom) at cold storage temperature, *J. Sci. Food Agric.* 92 (9) (2012).
47. Mahbobe Sharifi, Moloud Gholamzadeh Chitgar, Mohammad Ghadamyari, **Reza H. Sajedi**, and Sudabe Amini, Characterisation of digestive protease in the rose sawfly, *Arge rosae* Linnaeus (Hymenoptera: Argidae) *Archives of Phytopathology and Plant Protection*, 45 (10) 1170–1182 (2012).
48. S. A. Hosseini Boldaji, R. A. Khavari-Nejad, **R. Hassan Sajedi**, H. Fahimi, S. Saadatmand, Water availability effects on antioxidant enzyme activities, lipid peroxidation, and reducing sugar contents of alfalfa (*Medicago sativa* L.), *Acta Physiol. Plant.* 34:1177–1186. (2012).

49. Behnam Rasti, S. Shirin Shahangian, Majid Taghdir, Sadegh Hasannia, **Reza H. Sajedi**, Identification of RNA-bindinig sites in artemin using ducking energy landskaps and molecular dynamics simulation, *Iran. J. Biotechnol.* 10 (1) Pages 8-15 (2012).
50. Mansour Afshar Mohammadian, Zahra Khosravi Largani, **Reza H. Sajedi**, Quantitative and qualitative comparison of antioxidant activity in the flavedo tissue of three cultivars of citrus fruit under cold stress, *Aust. J. Crop Sci.* 6(3):402-406 (2012).
51. N. O. Mahmoodi, N. Naseri, E. Asadollahi, B. Ghalami-Choobar and **R. H. Sajedi**, Design and Synthesis of New Symmetrical Schiff Bases *Prog. Color Colorants Coat.* 4: 113-120 (2011).
52. Mansour Afshar Mohammadian, Zeinab Mobrami, **Reza H. Sajedi**, Bioactive compounds and antioxidant capacities in the flavedo tissue of two citrus cultivars under low temperature, *Braz. J. Plant Physiol.* 23(3): 203-208 (2011).
53. Yahya Tajvar, Reza Fotouhi Ghazvini, Yousef Hamidoghli, and **Reza H. Sajedi**, Antioxidant Changes of Thomson Navel Orange (*Citrus sinensis*) on Three Rootstocks under Low Temperature Stress, *Hort. Environ. Biotechnol.* 52(6):1-6. 2011.
54. Mahmoud R. Aghamaali, Vahab Jafarian, Behnam Rasti, Maryam Molakarimi, Reyhaneh Sariri, **Reza H. Sajedi**, Majid Taghdir, Saman Hosseinkhani, cloning and nucleotide sequencing of mnemiopsin from *Mnemiopsis Leidy*:An attempt toward better understanding of Ca^{2+} -regulated photoproteins by comparing Ctenophores and coelenterates, *Protein J.* 30: pp. 566-574 (2011).
55. S. Shirin Shahangian, Behnam Rasti, **Reza H. Sajedi**, Reza Khodarahmi, Majid Taghdir, Bijan Ranjbar, Artemin as an Efficient Molecular Chaperone, *Protein J.* 30: pp. 549-557 (2011).
56. Atiyeh Mahdavi, **Reza H. Sajedi**, S. Mohsen Asghari, Majid Taghdir, Mehdi Rassa, An analysis of temperature adaptation in cold active, mesophilic and thermophilic *Bacillus* α -amylases *Int. J. Biol. Macromol.* 49 (5) Pages 1038-1045 (2011).
57. V. Jafarian, R. Sariri, S. Hoseinkhani, M. Aghamaali, R. Hasan Sajedi, M. Taghdir and S. Hasannia. A unique EF-hand in mnemiopsin photoprotein from *Mnemiopsis Leidy*. *Biochemical and Biophysical Research Communication* 413(2) Pages 164-170(2011).
58. Babakhani, B., Khavari-Nejad, R.A., **Hassan sajedi**, R., Fahimi, H. and Saadatmand S. Biochemical responses of Alfalfa (*Medicago sativa* L.), cultivars subjected to NaCl salinity stress, *Afr. J. Biotechnol.* 10 (55), pp. 11433-11441(2011).
59. Behzad Kaviani, Seyyedeh Tayyebeh Pourkhalili, **Reza H. Sajedi** and Bita Mosadegh, Salt treatment can change composition of glycinin and β -conglycinin proteins in soybean seed, *Plant OMICS: Journal of Plant Biology & Molecular Omics* 4(4): 228-235 (2011).
60. Fatemeh Shirzad, **Reza H. Sajedi**, S. Shirin Shahangian, Behnam Rasti, Bita Mosadegh, Majid Taghdir, Saman Hosseinkhani, Deletion of extra C-terminal segment and its effect on the function and structure of artemin, *Int. J. Biol. Macromol.* 49 (3) 011, 311-316 (2011)
61. Nargess Memarizadeh, Mohammad Ghadamyari, **Reza H. Sajedi** and Jalal Jalali Sendi, CHARACTERIZATION OF ESTERASES FROM ABAMECTIN-RESISTANT AND SUSCEPTIBLE TWO-SPOTTED SPIDER MITE STRAINS, *TETRANYCHUS URTICAE* KOCH (ACARI: TETRANYCHIDAE): A COMPARATIVE STUDY, *International Journal of Acarology* 37 (4) 271–281(2011).
62. ASADI A., GHADAMYARI M., SAJEDI R. H., JALALI SENDI J., TABARI M. Biochemical characterization of midgut, salivary glands and haemolymph α -amylases of *Naranga aenescens*. *Bulletin of Insectology*, 63 (2) 175-181 (2010).
63. Atiyeh Mahdavi, **Reza H. Sajedi**, Mehdi Rassa, Vahab Jafarian, Characterization of an α -amylase with broad temperature activity from an acid-neutralizing *Bacillus cereus* strain, *Iran. J. Biotechnol.* 8: 103-111 (2010).
64. Reyhaneh Sariri, Abdolali. Varasteh, **Reza H. Sajedi**, Effect of Ramadan Fasting on Tear Proteins, *Acta Medica* 53 (3) 147–151 (2010).
65. Mansour Afshar-Mohammadian, Jila Rahimi-Koldeh, **Reza H. Sajedi**, The Comparison of Protease Activity and Total Protein in Three Cultivars of Kiwifruit of Northern Iran during Fruit Development, *Acta Physiol. Plant.* 29 June (2010).

66. Sariri R., Seifzadeh S. and **Sajedi R.H.** Antioxiant and anti-tyrosinase activity of Lanvandula sp. Extract, *Pharmacology online*, 2: 413-420 (2009).
67. Behnam Rasti, S. Shirin Shahangian, **Reza H. Sajedi**, Majid Taghdir, Sadegh Hasanniaand Bijan Ranjbar, Sequence and structural analysis of artemin based on ferritin: A comparative study, *Biochimica et Biophysica Acta (BBA)*, 1794, 1407–1413 (2009).
68. Ahmad Abolpour Homaei, **Reza H. Sajedi**, Reyhaneh Sariri, Sara Seyfzadeh, Roberto Stevanato Cysteine enhances activity and stability of immobilized papain, *Amino Acids*, 29 May (2009).
69. R. SARIRI, F. AGHAGHAZIANI and **R.H. SAJEDI**, Inhibition of mushroom tyrosinase by aliphatic alcohols *Biosciences, Biotechnology Research Asia* 6(2) 489-496 (2009).
70. R. Sariri, **R.H. Sajedi**, H. Ghafoori and A. Varasteh. Influence of smoking on activity of salivary α -amylase. *Biosciences, Biotechnology Research Asia*, 5 (2) (2008).
71. Sara Seifzadeh, **Reza H. Sajedi**, and Reyhaneh Sariri, Isolation and Biochemical Characterization of Thermophilic Alkaline Proteases Resistant to SDS and EDTA from *Bacillus* sp. GUS1. *Iran. J. Biotechnol.* 6(4) (2008).
72. Norastehnia, **R. H. Sajedi**, M. Nojavan-Asghari, INHIBITORY EFFECTS OF METHYL JASMONATE ON THE SEED GERMINATION IN MAIZE (ZEA MAYS): EFFECT ON α -AMYLASE ACTIVITY AND ETHYLENE PRODUCTION. *General and Applied Plant Physiology*, 33(1-2) (2007).
73. Keivan Zandi, Mohammad Hojat Farsangi, Iraj Nabipour, Masoud Soleimani, Khosro Khajeh, **Reza Hassan Sajedi** and Seyed Mojtaba Jafari, Isolation of a 60 kDa protein with in vitro anticancer activity against human cancer cell lines from the purple fluid of the Persian Gulf sea hare, *Aplysia dactylomela* *Afr. J. Biotechnol.* Vol. 6 (11) 1280-1283, (2007).
74. Zandi, Keivan, Roostaee, Mohammad Hassan, Sadeghzadeh, Majid, Rasaee, Mohammad Javad, **Hassan Sajedi**, Reza, soleimanjahi, hoorieh. Production of purified recombinant gG-1 protein of herpes simplex virus type 1 in a novel prokaryotic system in order to developing a type specific ELISA kit. *FEMS Immunol. Med. Microbiol.* p1–5, (2007).
75. Jahan Alikhajeh, Khosro Khajeh, Mehdi, Naderi-Manesh, Bijan Ranjbar, **Reza Hassan Sajedi**, Hossein Naderi-Manesh. Kinetic analysis, structural studies and prediction of pKa values of *Bacillus* KR-8104 α -amylase: the determinants of pH-activity profile. *Enzyme Microb. Technol.* 41 337–345 (2007).
76. **R.H. Sajedi**, M. Taghdir, H. Naderi-Manesha, K. Khajeh, and B. Ranjbar. Nucleotide sequence, structural investigation and homology modeling studies of a Ca^{2+} -independent α -amylase with acidic pH-profile. *J. Biochem. Mol. Biol.* Vol. 40, No. 1, (2007).
77. R. Sariri, V. Jafarian, **R.H. Sajedi**, and K. Khajeh. Inhibition of horseradish peroxidase activity by thiol type inhibitors: mercaptoethanol and mercaptoacetic acid. *J. Mol. Liquids*. Vol. 128, 175 – 177, (2006).
78. A.B. Dalfard, K. Khajeh, M.R. Soudi, H. Naderi-Manesh, B. Ranjbar and **R.H. Sajedi**. Isolation and biochemical characterization of laccase and tyrosinase activities in a novel melanogenic soil bacterium. *Enzyme Microb. Technol.* Vol. 39, 1409-1416, (2006).
79. F. Moradian, K. Khajeh, H. Naderi-Manesh, R. Ahmadvand, **R.H. Sajedi**, M. Sadeghzadeh. Thiol-Dependent Serine Alkaline Proteasesfrom *Bacillus* sp. HR-08 and KR-8102. *Appl. Biochem. Biotech.* Vol. 134, (2006).
80. R. Sariri, **R.H. Sajedi**, and V. Jafarian. Inhibition of horseradish peroxidase activity by thiol type inhibitors. *J. Mol. Liquids*. Vol. 123, 20 – 23, (2006).
81. R. Sariri, J. Mahmoodian, K. Khajeh, and **R.H. Sajedi**. Inhibition of tyrosinase activity on dopamine hydrochloride by thiol compounds. *Asi. J. Chem.* Vol. 18, No. 1, (2006).
82. R. Sariri, A. Ghanadzadeh, E. Liali, and **R.H. Sajedi**. The Inhibitory effect of alcohols on alkaline phosphatase activity. *Int. J. Chem. Sci.* Vol. 3, No. 1, p 16-22, (2005).

83. **R.H. Sajedi**, H. Naderi-Manesh, K. Khajeh, R. Ahmadvand, B. Ranjbar, A. Asoodeh, and F. Moradian. A Ca-independent α -amylase that is active and stable at low pH from the *Bacillus* sp. KR-8104. *Enzyme Microb. Technol.* Vol.36, p 666–671, (2005).
84. **R.H. Sajedi**, H. Naderi-manesh, K. Khajeh, B. Ranjbar, N. Ghaemi, and M. Naderi-manesh. Purification, characterization and structural investigation of a new extracellular alpha-amylase from *Bacillus* sp. TM1: Moderate thermophile and partially calcium- independent. *Appl. Biochem. Biotech.* Vol.119, p 41-50, (2004).
85. S.M. Asghari, K. Khajeh, B. Ranjbar, **R.H. Sajedi**, and H. Naderi-Manesh. Comparative studies on trifluoroethanol (TFE) state of a thermophilic α -amylase and its mesophilic counterpart: limited proteolysis, conformational analysis, aggregation and reactivation of the enzymes. *Int. J. Biol. Macromol.* Vol.34, p173-179, (2004).
86. **R.H. Sajedi**, S. Aminzadeh, H. Naderi-manesh, M.Sadeghizaeh, H.Abdolhay, and M. Naderi-manesh. Genetic Variation within and among Rainbow Trout, *Onchorhynchus mykiss*, hatchery Populations from Iran Assessed by PCR-RFLP Analysis of Mitochondrial DNA Segments: *J. Food Sci.* Vol.68, No 3, p870-873 (2003).