

## Curriculum Vitae (CV)

### Reza H. Sajedi

Speciality: Biochemistry

Academic Status: Professor

PhD: Biochemistry; Tarbiat Modares University, Iran  
MS: Biochemistry; Tarbiat Modares University, Iran  
BS/BA: Cellular and Molecular Biology; Shiraz University, Iran



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### Research interests:

- Protein engineering on Ca-dependent photoproteins and cell-based biosensors based on photoproteins
- Fluorescence and Luminescence Nanobiosensors
- Prokaryotic and eukaryotic expression systems with the approach of commercial enzyme and protein productions

### Company:

- Member of the Board and Head of R&D in Kimiazyme Co.

### 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 sintenisii* voucher GUH-13658 internal transcribed spacer 2 and 28S ribosomal RNA gene, partial sequence (2010).

**HM756251:** *Viola sintenisii* 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. Reza Shirzadian-Khorramabad, Taghi Moazzenzadeh, **Reza H Sajedi**, Hai-Chun Jing, Jacques Hille, Paul P Dijkwel, A mutation in *Arabidopsis* SAL1 alters its in vitro activity against IP3 and delays developmental leaf senescence in association with lower ROS levels, *Plant Molecular Biology* 108 (6), 549-563, 2022.
2. Z Takaloo, R Nemati, M Kazemi, H Ghafari, **RH Sajedi**, Acceleration of Yeast Autolysis by Addition of Fatty Acids, Ethanol and Alkaline Protease, *Iranian Journal of Biotechnology* 20 (3), 54-65, 2022.
3. Mohammad Ezati, Fahimeh Ghavamipour, Narges Khosravi, **Reza H Sajedi**, Maryam Chalabi, Alireza Farokhi, Hadi Adibi, Reza Khodarahmi, *Medicinal chemistry* 2022.
4. Elaheh Samari, Najmeh Ahmadian Chashmi, Faezeh Ghanati, **Reza H Sajedi**, Andrea A Gust, Farnaz Haghdoost, Mohsen Sharifi, Elisabeth Fuss, Interactions between second messengers, SA and MAPK6 signaling pathways lead to chitosan-induced lignan production in *Linum album* cell culture, *Industrial Crops and Products* 177, 114525, 2022.
5. Khodayar Gholivand, Zahra Roshanian, Maryam Rahimzadeh Dashtaki, Zahra Hosseini, Ali Asghar Ebrahimi Valmoozi, Mahboobeh Sharifi, Fahimeh Mohammadpanah, Maryam Rajabi, Mohammad Ghadamyari, Sedigheh Farshadian, **Reza H. Sajedi**, Khosro Khajeh & Neda Akbari, Monophosphoramidate derivatives: synthesis and crystal structure, theoretical and experimental studies of their biological effects, *Molecular Diversity* 26 (1), 97-112, 2022.

6. Farkhondeh Khanjani, Leila Jafari, Somayeh Azadiyan, Sahar Roozbehi, Cobra Moradian, Javad Zahiri, Sadegh Hasannia, **Reza H Sajedi**, Drug repositioning based on gene expression data for human HER2-positive breast cancer, *Archives of Biochemistry and Biophysics*, Volume 712, 109043, 2021.
7. Zahra Karimi Mazraeh Shahi, Zeinab Takaloo, Jahangir Mohamadzadeh, **Reza H Sajedi**, Kamahldin Haghbeen, Saeed Aminzadeh, Thermophilic iron containing type superoxide dismutase from *Cohnella* sp. A01, *Int J Biol Macromol*, 187, 373-385, 2021.
8. Robabeh Nemati, Maryam Molakarimi, Ammar Mohseni, Majid Taghdir, Khosrow Khalifeh and **Reza H. Sajedi**, Thermostability of Ctenophore and Coelenterate Ca<sup>2+</sup>-Regulated Apoptoproteins: A Comparative Study, *ACS Chem. Biol.* Vol. 187, Pages 373-385, 2021.
9. Mohamad Najarasl, Mehdi Zeinoddini, Ali Reza Saeedinia, **Reza H. Sajedi**, The co-expression of denileukin diftitox immunotoxin with Artemin: soluble and aggregation analysis in presence of an efficient protein chaperone, *Biologia*, 76 (11), 3421-3428, 2021.
10. Hamidreza Khodajou-Masouleh, S Shirin Shahangian, Farnoosh Attar, **Reza H. Sajedi**, Behnam Rasti, Characteristics, dynamics and mechanisms of actions of some major stress-induced biomacromolecules; addressing Artemia as an excellent biological model, *Journal of Biomolecular Structure and Dynamics*, 39 (15), 5619-5637, 2021.
11. Fahimeh Ghavamipour, Khosro Khajeh and **Reza H. Sajedi**, The application of the QDs/H<sub>2</sub>O<sub>2</sub> chemiluminescence system in HRP assay and HRP-based immunoassay, *Colloids and Surfaces B: Biointerfaces*, Vol. 206, Pages 111942, 2021.
12. Shirafkan F, Gharaghani S, Rahimian K, **Sajedi RH**, Zahiri J, Moonlighting protein prediction using physico-chemical and evolutionary properties via machine learning methods, *BMC Bioinformatics*, 22 (1), 1-14, 2021.
13. Fakhredin Abeddargahi, Hassan Darmani Kuhi, Seyed Hossein Hosseini Moghaddam, Mohammad Roostaei-Ali Mehr, Anahid Hosseini, **Reza H Sajedi**, Fatemeh Mohammadpour, Shaniko Shini, Effect of probiotic supplementation on performance, morphology and gene expression associated with immune responses in early age of broiler chickens exposed to stress induced by corticosterone injection, *Animal Production Science* 62 (5), 450-461, 2021.
14. F Haghdoost, M Molakarimi, M Mirshahi, **RH Sajedi**, Engineering aequorin to improve thermostability through rigidifying flexible sites, *Journal of Molecular Structure*, 2021 [in press].
15. S Roozbehi, S Dadashzadeh, **RH Sajedi**, An enzyme-mediated controlled release system for curcumin based on cyclodextrin/cyclodextrin degrading enzyme, *Enzyme and Microbial Technology*, Vol. 144, Pages 109727, 2021.
16. Seyed Ali Hemmati, Zeinab Takaloo, Majid Taghdir, Mohammad Mehrabadi, Saeed Balalaei, Saeid Moharrampour, **Reza H. Sajedi**, The trypsin inhibitor pro-peptide induces toxic effects in Indianmeal moth, *Plodia interpunctella*, *Pesticide Biochemistry and Physiology*, 171, 104730, 2021.
17. Fatemeh Mohammadi, Zeinab Takaloo, Hossein Rahmani, Mohammad Ali Nasiri Khalili, Khosro Khajeh, Gholamhossein Riazzi, **Reza H. Sajedi**, Interplay of isoform 1N4R tau protein and amyloid- $\beta$  peptide fragment 25-35 in reducing and non-reducing conditions, *The Journal of Biochemistry*, 169 (1), 119-134, 2021.
18. Somayeh Azadian, Javad Zahiri, **Reza H. Sajedi**, Reconstruction of intercellular signaling network by cytokine-receptor interactions, *Iranian Journal of Biotechnology*, 19 (1), 67-73, 2021.
19. Zeinab Takaloo, Zahra Afshar Ardakani, Bahman Maroufi, S. Shirin Shahangian, **Reza H. Sajedi**, Stress-dependent conformational changes of artemin: Effects of heat and oxidant *PLOS ONE*, 15 (11), e0242206, 2020.
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21. Ghazale Fahimian, Javad Zahiri, Seyed Sh. Arab, **RH Sajedi**, RepCOOL: Computational Drug Repositioning via Integrating Heterogeneous Biological Networks, *Journal of Translational Medicine*, 18 (1), 1-10, 2020.
22. Z Shirzadi, H Baharvand, MN Nezhati, **RH Sajedi**, Synthesis of nonlinear polymer brushes on magnetic nanoparticles as an affinity adsorbent for His-tagged xylanase purification *Colloid and Polymer Science*, 298 (11), 1597-1607, 2020.
23. Zeinab Takaloo, MohammadJavad Masroor, Ahmad Mani-Varnosfaderani, Bahman Maroufi, **Reza H Sajedi**, Probing heat and oxidation induced conformational changes of molecular

- chaperone artemin by excitation-emission fluorescence spectroscopy, *Journal of Photochemistry and Photobiology B: Biology*, 211, 112013, 2020.
24. ZS Rezaei, SS Shahangian, S Hasannia, **RH Sajedi**, Development of a phage display-mediated immunoassay for the detection of vascular endothelial growth factor, *Analytical and Bioanalytical Chemistry*, 412 (27), 7639-7648, 2020.
  25. Farinaz Vafadar, Rayhaneh Amooaghaie, Parviz Ehsanzadeh, Faezeh Ghanati, **Reza H Sajedi**, Crosstalk between melatonin and Ca<sup>2+</sup>/CaM evokes systemic salt tolerance in *Dracocephalum kotschyi*, *Journal of Plant Physiology*, 252, p153237, 2020.
  26. Seyed A Arianzad, Mehdi Zeinoddini, Azam Haddadi, Shahram Nazarian, **Reza Hassan Sajedi**, *In Silico* Design of Chimeric and Immunogenic Protein-Containing IpaB and IpaD as a Vaccine Candidate against *Shigella dysenteriae*, *Current Proteomics*, 17(4) p333-341, 2020.
  27. Narges Marvastizadeh, Bahareh Dabirmanesh, **Reza H Sajedi**, Khosro Khajeh, Anti-amyloidogenic effect of artemin on  $\alpha$ -synuclein, *Biological Chemistry*, 401(10):1143-1151, 2020.
  28. Shokofeh Rezaei, Zeinab Takaloo, Zahra S Rezaei, Valiollah Babaeipour, Ahmad Farhad Talebi, **Reza H Sajedi**, Soluble overexpression, high-level production and purification of receptor binding domain of human VEGF8-109 in *E. coli*, *Process Biochemistry*, 96, 228-238, 2020.
  29. Sahar Roozbehi, Simin Dadashzadeh, Manouchehr Mirshahi, Majid Sadeghizadeh, **Reza H Sajedi**, Targeted anticancer prodrug therapy using dextran mediated enzyme-antibody conjugate and  $\beta$ -cyclodextrin-curcumin inclusion complex, *Int J Biol Macromol*, 160, 1029-1041, 2020.
  30. Zeinab Takaloo, Mohsen Nikkha, Robabeh Nemati, Nezam Jalilian, **Reza H Sajedi**, Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (*Saccharomyces cerevisiae*): a comparative study, *World Journal of Microbiology and Biotechnology*, 36, p1-14, 2020.
  31. Fahimeh Ghavamipour, Hossein Rahmani, Maryam Shanehsaz, Khosro Khajeh, Manouchehr Mirshahi, **Reza H. Sajedi**, Enhanced Sensitivity of VEGF Detection Using Catalase-Mediated Chemiluminescence Immunoassay Based on CdTe QD/H<sub>2</sub>O<sub>2</sub> System, *Journal of Nanobiotechnology* 18(9), 2020
  32. F Abeddargahi, H Darmani-Kuhi, **RH Sajedi**, M Roostaei Ali-Mehr, SH Hosseini Moghaddam, Effects of Probiotic on Immune Response and Intestine Morphology of Broiler Chicks Exposed to Stress Induced by Corticosterone, *Iranian Journal of Applied Animal Science*, 10(1),91-102, 2020.
  33. Zohreh Jahangirizadeh, Hossein Ghafouri, **Reza H. Sajedi**, Reyhaneh Sariri, Saman Hossienkhani, Rapid and simple screening of the apoptotic compounds based on Hsp70 inhibition using luciferase as an intracellular reporter, *Analytical and Bioanalytical Chemistry*, 412(1), p149-158, 2020.
  34. Abouzar Soleimani Moez, **Reza H. Sajedi**, Kamran Pooshang Bagheri, Jean-Marc Sabatier and Delavar Shahbazzadeh, Novel Mutant Phospholipase D from *Hemiscorpius lepturus* Acts as A Highly Immunogen in BALB/c Mice Against the Lethality of Scorpion Venom, *Molecules* 25(7), 1673, 2020.
  35. Zeinab Takaloo, Forouzan Niknaddaf, S Shirin Shahangian, Akbar Heydari, Saman Hosseinkhani, **Reza H Sajedi**, Modulation of the competition between renaturation and aggregation of lysozyme by additive mixtures, *Biotechnology and applied biochemistry*, 2019 [In press].
  36. Sepideh Sepehri, S. Shahriar Arab, Mehرداد Behmanesh, **Reza H. Sajedi**, Directed Blocking of TGF- $\beta$  Receptor I Binding Site Using Tailored Peptide Segments to Inhibit its Signaling Pathway, *Iran. Biotechnol. J.* 2019 [In press].
  37. Hossein Rahmani, Fahimeh Ghavamipour, **Reza H Sajedi**, Bioluminescence detection of superoxide anion using aequorin, *Analytical chemistry*, 91(20) 12768-12774, 2019.
  38. Maryam Zolfaghari, Mohammad Ghadamyari, **Reza H. Sajedi**, Resistance mechanisms of a field population of diamond back moth, *Plutella xylostella* (Lepidoptera: Plutellidae) to current organophosphate pesticides, *Journal of Crop Protection*, 8 (4), 403-416, 2019.
  39. Maryam Molakarimi, Michael A. Gorman, Ammar Mohseni, Zaidodine Pashandi, Majid Taghdir, Hossein Naderi-Manesh, **Reza H. Sajedi**, and Michael W. Parker, Reaction mechanism of the bioluminescent protein mnemiopsin1 revealed by X-ray crystallography and QM/MM simulations, *J. Biol. Chem.* 294(1) 20–27, 2019.

40. Ammar Mohseni, Maryam Molakarimi, Majid Taghdir, **Reza H Sajedi**, Sadegh Hasannia, Exploring Single-domain antibody thermostability by molecular dynamics simulation, *Journal of Biomolecular Structure and Dynamics*, 37 (14), 3686-3696, 2019.
41. Hossein Rahmani, **Reza H. Sajedi**, Aequorin as a sensitive and selective reporter for detection of dopamine: A photoprotein inhibition assay approach, *Int J Biol Macromol*, 122, Pages 677-683, 2019.
42. Farkhondeh Khanjani, **Reza H. Sajedi** and Sadegh Hasannia, Rapid screening of drug candidates against EGFR/HER2 signaling pathway using fluorescence assay, *Analytical and Bioanalytical Chemistry*, 410 (30), 7827-7835, 2018.
43. Forouzan Niknaddaf, S. Shirin Shahangian, Akbar Heydari, Saman Hosseinkhani and **Reza H. Sajedi**, Deep Eutectic Solvents as a New Generation of Chemical Chaperones, *ChemistrySelect* 3, 10603– 10607, 2018.
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45. Vahab Jafarian, **Reza H Sajedi**, Saman Hosseinkhani, Reyhaneh Sariri, Majid Taghdir, Khosrow Khalifeh, Masoomah Vafa, Mahmoud Reza Aghamaali, Structural and functional consequences of EF-hand I recovery in mnemiopsin, *Int J Biol Macromol*, 118, 2006-2013, 2018.
46. F Ghavamipour, **R. H. Sajedi**, K Khajeh A chemiluminescence-based catalase assay using H<sub>2</sub>O<sub>2</sub>-sensitive CdTe quantum dots, *Microchimica Acta* 185 (8), 376, 2018.
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54. Navvabeh Salarizadeh, Minoo Sadri, **Reza. H. Sajedi**, Synthesis and catalytic evaluation of Fe<sub>3</sub>O<sub>4</sub>/MWCNTs nanozyme as recyclable peroxidase mimetics: Biochemical and physicochemical characterization, *Journal of Organometallic Chemistry*, 32 (2), e4018, 2018.
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