

Curriculum Vitae

Family Name: **Kazemi Noureini**

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ResearchGate <https://www.researchgate.net/profile/Sakineh-Kazemi-Noureini>

Education:

Diploma of Mathematics and Physics (High School), 1988

Diploma of Natural Sciences, 1989

B.Sc. Biology - Zoology, Faculty of Science, University of Tehran, Iran **1993**

M.Sc. Biochemistry, Faculty of Science, Tarbiat Modares University, Iran **1996**

Protein Structure-function relationship using biothermodynamic analysis: the study of the effects of metal and non-metal ligands on the conformational stability of trypsin and chymotrypsin

Ph.D. Biochemistry, Institute of Biochemistry and Biophysics, University of Tehran, Iran **2004**

Molecular Biology of squamous cell carcinoma of esophagus: Telomerase activity and Differential display gene expression between normal and tumor tissues of squamous cell carcinoma of esophagus.

Postdoc Researcher. Department of Biology, Institute of Pharmaceutical and Molecular Biotechnology, Heidelberg, Germany. **2004-2006**

Screening bioproducts inhibiting/down regulating telomerase, Aug 2004-June 2006

Papers:

*: Corresponding Author

1. Roudsarabi E, Kazemi Noureini S*, Faridnouri H, Vaezi Kakhki MR. Effects of methanolic extracts of *Epilobium parviflorum* on growth and function of human liver cells HepG2. **Koomesh** 2021; 23 (6), 801-812.
2. Baghaenezhad M, Mollania N*, Kazemi-Noreini S. Antioxidant Capacities, Antimicrobial Activity, Phenolic Contents and α -Amylase Inhibitory of *Salvia leriifolia* Extracts from Sabzevar. **Iranian Journal of Science and Technology**. Transaction A, Science 2021; 45(2):1-9. DOI: 10.1007/s40995-021-01162-9
3. Hatefi Kia B, Kazemi Noureini S*, Vaezi Kakhki MR. The Extracts of *Epilobium Parviflorum* Inhibit MCF-7 Breast Cancer Cells. **Iranian Journal of Toxicology**. 2021; 15(1):65-72. <http://dx.doi.org/10.32598/ijt.15.1.752.1>
4. Iziy E., Majd A., Vaezi-Kakhki MR*, Nejdassattari T., Kazemi Noureini S. Effects of UV radiations on growth and some physiological and biochemical parameters of *Portulaca oleracea* L.P. **Journal of Plant Process and Function** 2020; 9(39): 109-124
5. Faeze Rouhi, Zinat Mohammadpour, Sakineh Kazemi Noureini, Hedayat Abbastabar, Mohammad Hossein Harirchian, Sama Bitarafan*. The effects and side effects of laquinimod for the treatment of multiple sclerosis patients: a systematic review and meta-analysis of clinical trials. **European Journal of Clinical Pharmacology**. 2020;76:611–622. doi.org/10.1007/s00228-019-02827-6
6. Moradi Jaferi L., Kazemi Noureini S*, Rastegar Pouyani E. Evaluating the Function of Melting Point Temperature of Phylogenetic Genes for Detecting the Taxons of Snakes. **Journal of Animal Biology**. 2019; 11(3):71-84.
7. Dadkhah A *, Fatemi F, Malayeri MRM, Ashtiyani MHK, Noureini SK. Considering the Effect of *Rosa damascena* Mill. Essential Oil on Oxidative Stress and COX-2 Gene Expression in the Liver of Septic Rats. **Turkish Journal of Pharmaceutical Sciences**. 2018;16(4): 428-436. DOI: 10.4274/tjps.galenos.2018.58815
8. Iziy E, Majd A*, Vaezi-Kakhki MR, Nejdassattari T, Kazemi Noureini S. Effects of zinc oxide nanoparticles on enzymatic and nonenzymatic antioxidant content, germination, and biochemical and ultrastructural cell characteristics of *Portulaca oleracea* L. **Acta Soc Bot Pol**. 2019;88(4):3639. <https://doi.org/10.5586/asbp.3639>
9. Eshaghi FS, Ghazizadeh H, Kazemi-Nooreini S, Timar A, Esmaeily H, Mehramiz M, Avan A, Ghayour-Mobarhan* M. Association of a genetic variant in AKT1 gene with features of the metabolic syndrome. **Genes Dis**. 2019;6(3):290-295. doi: 10.1016/j.gendis.2019.03.002.
10. Kazemi Noureini S*, Fatemi L, Wink M. Telomere shortening in breast cancer cells (MCF7) under treatment with low doses of the benzylisoquinoline alkaloid chelidonine. **PLoS One**. 2018; 13(10):e0204901. doi: 10.1371/journal.pone.0204901.
11. Behboudi H, Noureini SK, Ghazanfari T, Ardestani SK*. DNA damage and telomere length shortening in the peripheral blood leukocytes of 20 years SM-exposed veterans. **Int Immunopharmacol**. 2018; 61:37-44. doi: 10.1016/j.intimp.2018.05.008.
12. Kazemi Noureini S*, Kheirabadi M, Masoumi F, Khosrogerdi F, Zarei Y, Suárez-Rozas C, Salas-Norambuena J, Kennedy Cassels B. Telomerase Inhibition by a New Synthetic Derivative of the Aporphine Alkaloid Boldine. **Int J Mol Sci**. 2018 ;19(4). pii: E1239. doi: 10.3390/ijms19041239.
13. Sakineh Kazemi Noureini*, Hosein Esmaeili, Farzane Abachi, Soraia Khiali, Barira Islam, Martyna Kuta, Ali A. Saboury, Marcin Hoffmann, Jiri Sponer, Gary Parkinson, Shozeb Haider*. Selectivity of major isoquinoline alkaloids from *Chelidonium majus* towards telomeric G-quadruplex: A study

- using a modified transition-FRET (t-FRET) assay. *Biochemica et Biophysica Acta (General Subjects)* 1861(8):2020-2030. 2017
14. Klinosky Daniel*, Daniel J Klionsky, Kotb Abdelmohsen, Akihisa Abe, Md Joynal Abedin, Hagai Abeliovich, Abraham Acevedo Arozena, Hiroaki Adachi, Christopher M Adams, Peter D Adams, Khosrow Adeli Kazemi Noureini Sakineh, Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy* 12: 1-222. 2016
 15. Kazemi Noureini Sakineh*, Wink Michael. Dose-Dependent Cytotoxic Effects of Boldine in HepG-2 Cells—Telomerase Inhibition and Apoptosis Induction. *Molecules*. 20: 3730-3743. 2015
 16. Kazemi Noureini Sakineh*, Tanavar Fatemeh. Boldine, a natural aporphine alkaloid, inhibits telomerase at non-toxic concentrations. *Chemico-Biological Interactions* 231:27-34. 2015
 17. Kazemi Noureini Sakineh*, Esmaili Hossein. Multiple mechanisms of cell death induced by chelidonine in MCF-7 breast cancer cell line. *Chemico-Biological Interactions* 223C:141-149. 2014
 18. Kazemi Noureini*S., Wink M. Antiproliferative Effect of the Isoquinoline Alkaloid Papaverine in Hepatocarcinoma HepG-2 Cells — Inhibition of Telomerase and Induction of Senescence. *Molecules*. 19(8):11846-59. 2014
 19. Ghasem Mohammadpour, Rahmat Tahmasbpour, SakinehKazemi Noureini, Eisa Tahmasbpour and Ghasem Bagherpour. In vitro Antimicrobial and Cytotoxicity Assays of Satureja bakhtiarica and Zataria multiflora Essential Oils. *American Journal of Phytomedicine and Clinical Therapeutics*. 3(6): 502-511. 2014
 20. Noori ZS., Kazemi Noureini *S., Nabiuni M. Investigation of Telomerase activity and hTERT gene expression in MCF7 cells treated with papaverine. *Journal of Sabzevar University of Medical Sciences*, 20(2): 122-132; 2013
 21. Khosrojerdi F., Kazemi Noureini* S., Nabiuni M. Telomerase activity in breast cancer cells under treatment with crocin. *Journal of Sabzevar University of Medical Sciences*. 19(3); 2012
 22. Kazemi Noureini Sakineh*, Wink Michael. Antiproliferative effects of crocin in HepG2 cells by telomerase inhibition and hTERT down-regulation. *Asian Pac J Cancer Prev*. 2012; 13(5):2305-9.
 23. Rastegar Pouyani Eskandar, Kazemi Noureini Sakineh, Joger Ulrich and Wink Michael. Molecular phylogeny and intraspecific differentiation of the *Eremias velox* complex of the Iranian Plateau and Central Asia (Sauria, Lacertidae). *Journal of Zoological Systematics and Evolutionary Research* 50; 220-229; 2012
 24. Rastegar Pouyani, E*. Rastegar Pouyani, N., Kazemi Noureini, S. Joger, U. and M. Wink. Molecular phylogeny and evolution of the *Eremias persica* complex of the Iranian Plateau (Reptilia: Lacertidea) based on mtDNA sequences. *Zoological Journal of the Linnean Society*.158: 641-660; 2010 doi.org/10.1111/j.1096-3642.2009.00553.x
 25. Rastegar Pouyani, E*. Kazemi Noureini, S. Joger, U. and M. Wink. A Phylogeny of the *Eremias velox* complex of the Iranian Plateau and Central Asia (Reptilia, Lacertidae): Molecular evidence from ISSR-PCR fingerprints. *Iranian Journal of Animal Biosystematics*, 5: 15-25; 2009
 26. Kazemi Noureini *S., Wink M. Transcriptional down regulation of hTERT and induction of senescence in HepG2 cells by the benzophenanthridine alkaloid chelidonine. *World J. Gastroenterology* 15(29): 3606-3610; 2009
 27. Kazemi-Noureini Sakineh, Colonna-Romano Sergio, Ziaee Abed-Ali*, Malboobi Mohammad-Ali, Yazdanbod Mansour, Setayeshgar Parviz, Maresca Bruno. Differential gene expression between squamous cell carcinoma of esophageus and its normal epithelium; altered pattern of mal, akr1c2, and rab11a expression. *World J. Gastroenterology* 10(12):176-1721; 2004
 28. Kazemi Noureini S., Ziaee A.A.*, Rastegar-jazii F., Yazdanbod M. Telomerase activity in Iranian patients with mSquamous Cell Carcinoma of Esophagus. *Medical J. I.R.Iran* 18(2):147-152; 2004

29. Farzami Bijan, Naderimanesh Hosein, Kazemi Noureini Sakineh. Thermodynamic and kinetic parameter changes in chymotrypsin and trypsin due to Ca (II) ligation. ***Metal Ions in Biology and Medicine*** 6: 5-8; 2000

Selected Abstracts presented in conferences:

1. Heavy metal interactions with telomeric G-quadruplex DNA; an optimized transition-FRET melting method. Seyed-Ali Mehrdad, Sakineh Kazemi Noureini. the 15th Iranian National congress of Biochemistry and 6th International Congress of Biochemistry and Molecular Biology. 25-28 Aug 2018, Isfahan, Iran
2. sequence specificity of interactions of heavy metal cations with myc and kit promoter. Seyed-Ali Mehrdad, Sakineh Kazemi Noureini. the 15th Iranian National congress of Biochemistry and 6th International Congress of Biochemistry and Molecular Biology. 25-28 Aug 2018, Isfahan, Iran
3. Cytotoxicity of Benzyl Isoquinolinic Alkaloids, Palmatine and Corydaline on MCF-7 and MDA- MB231 Breast Cancer Cell Lines. International Tehran Breast Cancer Congress (TBCC9 18-20 Oct 2017, Tehran, Iran
4. Interaction of metal cations with specific G-rich DNA sequences. Seyed-Ali Mehrdad, Sakineh Kazemi Noureini. 19th Iranian Inorganic Chemistry Conference. 5-8 Sep 2017, Tehran, Iran
5. Investigation of interaction of metal cations with sequence specific double strand DNA. Seyed-Ali Mehrdad, Sakineh Kazemi Noureini. 19th Iranian Inorganic Chemistry Conference. 5-8 Sep 2017, Tehran, Iran
6. Inhibitory effects of Pap against aldo-keto reductase family 1. Mohammad Gerehgosha, Mitra Kheirabadi, Sakineh Kazemi Noureini. 18th Iranian Physical Chemistry Conference, March 5-8, 2016, Kish Island, **Iran**
7. Coumarin derivatives binding to ATP-binding cassette transporter ABCC1; A Virtual screening. Parisa Shahpour, Sakineh Kazemi Noureini, Mitra Kheirabadi. 14th National Congress of Biochemistry, Shahid Beheshti University, 16-18 August 2016, Tehran, **Iran**
8. In vitro Protective Effect of a New Azobenzene Compound against UV C Radiation Sakineh Kazemi Noureini, Esmaeil Rezaei-Seresht, Mahtab Vali-Zadeh, Aboulfazl Salimi. 14th National Congress of Biochemistry, Shahid Beheshti University, 16-18 August 2016, Tehran, **Iran**
9. Inhibitory effects of isoquinoline alkaloids against aldo-keto reductases; an In Silico study. Gerehgosha Mohammad, Kheirabadi Mitra, Kazemi Noureini Sakineh. 13th Conference on Biophysical Chemistry 26-27 May 2015, Tehran, **Iran**
10. Cloning, expression and production of human AKR1C3. Rasi Sara, Kazemi Noureini Sakineh, Hoseinkhani Saman. 13th Conference on Biophysical Chemistry 26-27 May 2015, Tehran, **Iran**
11. P-glycoprotein gene expression in drug resistance breast cancer cells treated with benzyloquinoline alkaloids. Jarrahifar Z., Kazemi Noureini S. 9th International Congress of Breast Cancer. 26-28 Feb 2014, Tehran, **Iran**
12. Expression levels of Human Aldo-Keto Reductase (AKR1C) Enzymes in breast cancer cells under treatment of some natural compounds. Zakiye Vosoghi, Sakineh Kazemi Noureini. 9th International Congress of Breast Cancer. 26-28-6 Feb 2014. Tehran, **Iran**
13. Inspection of inhibitory potencies of natural alkaloid on anticancer drug efflux; the transporter P-glycoprotein activity. Kazemi Noureini S., Jarrahifar Z. 9th International Congress of Breast Cancer. 26-28 Feb 2014, Tehran, **Iran**
14. Evaluation of natural alkaloids for reversal of drug resistance in breast cancer cell culture model. 12th Iranian congress of Biochemistry and 4th international congress of biochemistry and molecular biology, 2014, Yazd, **Iran**

15. Study of telomerase activity in cell line MCF7 treated with crocin 12th Iranian congress of Biochemistry and 4th international congress of biochemistry and molecular biology, 2014, Yazd, **Iran**
16. Human aldo-keto reductase enzymes as targets of natural chemopreventive compounds. Kazemi Noureini S., Vosoughi Z. 8th International Congress of Breast Cancer. 23-25 Feb 2013,
17. Cytotoxic effects of Boldine in breast cancer cells. Noureini SK, Tanavar F. Iranian Journal of Biotechnology 2013; 42: 11; Suppl. 1 13 th ICB & 5 th ICBMB.
18. Anti-proliferative effects of chelerythrine by telomerase inhibition in MCF-7 cell line. Kazemi Noureini S., Esmaili H. Iranian Journal of Biotechnology 2013; 11; Suppl. 1 13 th ICB & 5 th ICBMB. 23-25 Feb 2013, Tehran, **Iran**
19. Strong telomerase inhibitory effect of boldine in MCF-7 cell line. Kazemi Noureini S., Tanavar F. 8th International Congress of Breast Cancer. 23-25 Feb 2013, Tehran, **Iran**
20. Evaluation of natural compounds for telomeric DNA interaction using FRET thermal analysis. Abachi F., Kazemi Noureini S. 12th Iranian congress of Biochemistry and 4th international congress of Biochemistry and Molecular Biology, 6-9 Sep 2011, Mashhad, **Iran**
21. Study of telomerase activity in cell line MCF7 treated with crocin. Khosrojerdi F. and Kazemi Noureini S. Clinical Biochemistry 2011, 44 (13), S113
22. Study of probable effects of papaverine on telomerase activity and immortality of MCF-7 cell line. Nouri SZ., Kazemi Noureini S. Clinical Biochemistry 2011, 44 (13), S336
23. Cell senescence induction by Chelidonine in MCF7 cells. Kazemi Noureini S., Wink M, FEBS 35th. June 26-July 1 2010. Gothenburg, **Sweden**. FEBS Journal 277 (Suppl 1): 41
24. Anti-proliferative effect of papaverine in HepG2 cells. Kazemi Noureini S., Wink M. FEBS 35th. June 2010. June 26-July 1 2010. Gothenburg, **Sweden**. FEBS Journal 277 (Suppl 1): 41
25. Down regulation of catalytic subunit of telomerase in HepG2 cells by the benzophenanthridine alkaloid chelidonine. Iran. Chem. Soc., Vol. 6, Suppl., November 2009. 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, **Iran**
26. Cytotoxic effects of the benzophenanthridine chelidonine on liver cancer cells (HepG2). J. Iran. Chem. Soc., Vol. 6, Suppl., November 2009. 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, **Iran**
27. Induction of senescence in cell culture by plant secondary metabolites. 33rd FEBS Congress and 11th IUBMB Conference, 2008, **Greece**
28. Growth inhibition in cancer cell culture model under long treatment with chelidonine. 19-21 May 2008 First national congress of cellular and molecular news in noncontagious diseases. Babol, **Iran**.
29. MDR1 expression in liver cancer cells treated with benzophenanthridine alkaloid chelidonine. 19-21 May 2008 First national congress of cellular and molecular news in noncontagious diseases. Babol, **Iran**.
30. Differential gene expression analysis in squamous cell carcinoma of esophagus Second international congress of Molecular Biology and Biochemistry, Shiraz, **Iran**; Nov 2007; selected young scientist for oral presentation
31. Telomerase inhibitory potencies of plant secondary metabolites Second international congress of Molecular Biology and Biochemistry, Shiraz, **Iran**; Nov 2007
32. Screening plant secondary metabolites for their telomerase inhibitory potencies. 31st FEBS congress, 2006, **Turkey**
33. Aldo-keto reductases up-regulation in squamous cell carcinoma of esophagus. The first international congress of cancer genetics, 13-16 Dec 2003, **Tehran**
34. A putative protein differentially expressed between normal tissues of esophagus and ESCC. Genomics and Cancer (Heidelberg) May 2003, **Germany**

35. Analysis of altered gene expression pattern in squamous cell carcinoma of esophagus. Cancer of the esophagus and gastric cardia: from gene to cure 13-15 Dec 2002 Amsterdam, **the Netherland**
36. Gene expression pattern analysis of ESCC. Second international IRCC Cancer conference and EMBO Workshop. Feb 2002; Turin, **Italy**
37. Telomerase activity in Iranian patients with esophageal squamous cell carcinoma. S. Kazemi Noureini, AA Ziaee, M. Yazdanbod, British Journal of Cancer. 85(Suppl 1):33-109 July 25, 2001, **London**

Teaching:

B.Sc. students

- Biochemistry
- Molecular Biology
- Radiation Biology
- Biophysics
- Molecular cell biology
- Biophysical chemistry
- Medical Biochemistry
- Biosafety
- Cell and Molecular methods
- Molecular genetics

Master students

- Molecular and chemical carcinogenesis
- Advanced Molecular Biology
- Biophysical-Biochemical methods
- Chromatin Biochemistry
- Nucleic Acid biochemistry
- Laboratory techniques in Biochemistry
- Advanced Biochemistry
- Cell and molecular biology techniques
- Biological research methodology
- Biothermodynamics
- Epigenetics

Reviewing papers for journals:

- Phytomedicine (Elsevier)
- Planta Med (Thieme Medical Publisher)
- Tumor Biology (Springer)
- BMC Complementary and Alternative Medicine (Springer)
- Medicinal Chemistry Research (Springer)
- World J Surgical Oncology (Springer)
- Scholarena J Cancer Science (Scholarena Journals)
- J Cell Mol Research (Ferdowsi University, Mashad, Iran)
- Sabzevar University of Medical Sciences (Sabzevar, Iran)
- Biological Research (Biological Society of Chile)
- Iranian Journal of Basic Medical Sciences (Mashad, Iran)
- Plos One (Public Library of Science)

- BioCell (Tech Science Press)
- Drug Design, Development and Therapy (Dove Press)
- African Journal of Biotechnology (Academic Journals)
- Cell Proliferation (Wiley-Blackwell Publishing Ltd)
- Molecules (MDPI)
- Nutrients (MDPI)
- Life (MDPI)
- Frontiers in Cell and Developmental Biology) FRONTIERS Media

Editorial

- Evidence-based Complementary and Alternative Medicine (Hindawi)

Positions:

- **Doctoral researcher:** Institute of Biophysics and Genetics, Center of National Research, Naples, Italy. May 2000-Feb 2001 (Ph.D. fellowship of Research and Technology Ministry of Science)
- **Post-doc researcher:** Screening bioproducts inhibiting/down regulating telomerase, Department of Biology, Institute of Pharmaceutical and Molecular Biotechnology, Heidelberg Aug 2004-June 2006
- **Assistant Prof.** Department of Biology, Faculty of Science, Hakim Sabzevari University; June 2006
- **Associate Prof.** July 2014