



Jahrom University
of Medical Sciences

Fraidoon kavoosi, PH.D

Associate professor of anatomy
Department of Anatomy
School of Medicine

Jahrom University of Medical Sciences

Jahrom, 74148-46199
Islamic Republic of Iran

https://medicine.jums.ac.ir/dorsapax/Data/sub_14/file/%D8%A2%D9%86%D8%A7%D8%AA%D9%88%D9%85%D9%8A%20%D8%AF%D9%83%D8%AA%D8%B1%20%D9%83%D8%A7%D9%88%D9%88%D8%B3%D9%8A.pdf

Current Position

Faculty member

Membership

Previous Employment

Education

Liscense: Shiraz University of medical education
Islamic Republic of Iran

Master of Science: Shiraz University of medical education
Islamic Republic of Iran

PH.D: Isfahan University of medical education
Islamic Republic of Iran

Select Publications

I. Journals

1-[Histone deacetylases and histone deacetylase inhibitors: molecular mechanisms of action in various cancers](#)

M Sanaei, F Kavooosi

[۸۶](#) 2019

Advanced biomedical research 8

2-[Effect of genistein in comparison with trichostatin a on reactivation of DNMTs genes in hepatocellular carcinoma](#)

M Sanaei, F Kavooosi, A Roustazadeh, F Golestan

[۴۳](#) 2018

Journal of clinical and translational hepatology 6 (2), 141

3-[Effect of 5-aza-2'-deoxycytidine in comparison to valproic acid and trichostatin A on histone deacetylase 1, DNA methyltransferase 1, and CIP/KIP family \(p21, p27, and](#)

[۳۴](#) 2019

[p57 ...](#)

M Sanaei, F Kavooosi

Advanced Biomedical Research 8

4-[In vitro effect of the histone deacetylase inhibitor valproic acid on viability and apoptosis of the PLC/PRF5 human hepatocellular carcinoma cell line](#)

[۳۱](#) 2018

M Sanaei, F Kavooosi, A Roustazadeh, H Shahsavani

Asian Pacific journal of cancer prevention: APJCP 19 (9), 2507

5-[Inhibitory effect of genistein on PLC/PRF5 hepatocellular carcinoma cell line](#)

[۳۱](#) 2015

MN Dastjerdi, F Kavooosi, A Valiani, E Esfandiari, M Sanaei, S Sobhanian, ...

International Journal of Preventive Medicine 6

6-[Genistein and trichostatin a induction of estrogen receptor alpha gene expression, apoptosis and cell growth inhibition in hepatocellular carcinoma HepG 2 cells](#)

[۲۹](#) 2017

M Sanaei, F Kavooosi, H Salehi

Asian Pacific journal of cancer prevention: APJCP 18 (12), 3445

7-[Effect of Curcumin and Trichostatin A on the Expression of DNA Methyltransferase 1 in Hepatocellular Carcinoma Cell Line Hepa 1-6.](#)

[۳۷](#) 2018

M Sanaei, F Kavooosi

Iranian Journal of Pediatric Hematology & Oncology 8 (4)

8-[Effects of genistein and synergistic action in combination with tamoxifen on the HepG2 human hepatocellular carcinoma cell line](#)

[۲۶](#) 2017

M Sanaei, F Kavooosi, S Atashpour, S Haghghat

Asian Pacific Journal of Cancer Prevention: APJCP 18 (9), 2381

9-[Medical and dental applications of nanomedicines](#)

[۲۴](#) 2018

F Kavooosi, F Modaresi, M Sanaei, Z Rezaei

Apmis 126 (10), 795-803

10-[Effect of genistein on apoptosis and proliferation of hepatocellular Carcinoma Hepa1-6 Cell Line](#)

[۲۳](#) 2018

M Sanaei, F Kavooosi, A Valiani, MA Ghobadifar

International journal of preventive medicine 9

11-[Effects of 5-aza-2'-deoxycytidine and valproic acid on epigenetic-modifying DNMT1 gene expression, apoptosis induction and cell viability in hepatocellular carcinoma WCH-17 ...](#)

[۲۲](#) 2019

M Sanaei, F Kavooosi

Iranian Journal of Pediatric Hematology & Oncology

12-[Comparative Analysis of the Effects of Valproic Acid and Tamoxifen on Proliferation, and Apoptosis of Human Hepatocellular Carcinoma WCH 17 CellLine.](#)

[۲۱](#) 2018

M Sanaei, F Kavooosi

Iranian Journal of Pediatric Hematology & Oncology 8 (1)

13-[Genistein potentiates the effect of 17-beta estradiol on human hepatocellular carcinoma cell line](#)

[۲۰](#) 2016

MGH Fraidoon Kavooosi1, Mehdi Nikbakht Dastjerdi2, Ali Valiani2, Ebrahim ...

Adv Biomed Res

14-[Investigation of the effect of zebularine in comparison to and in combination with trichostatin A on p21Cip1/Waf1/Sdi1, p27Kip1, p57Kip2, DNA methyltransferases and](#)

[۱۸](#) 2020

- [histone ...](#)
M Sanaei, F Kavooosi
Asian Pacific journal of cancer prevention: APJCP 21 (6), 1819
- 15-[Effect of zebularine in comparison to and in combination with trichostatin A on CIP/KIP family \(p21Cip1/Waf1/Sdi1, p27Kip1, and p57Kip2\), DNMTs \(DNMT1, DNMT3a, and DNMT3b ...](#) [۱۷](#) 2020
M Sanaei, F Kavooosi
Asian Pacific Journal of Cancer Prevention: APJCP 21 (7), 2131
- 16-[Effect of valproic acid in comparison with vorinostat on cell growth inhibition and apoptosis induction in the human colon cancer SW48 cells in vitro](#) [۱۷](#) 2018
M Sanaei, F Kavooosi, O Mansoori
Experimental Oncology
- 17-[Effect of valproic acid on the class i histone deacetylase 1, 2 and 3, tumor suppressor genes p21WAF1/CIP1 and p53, and intrinsic mitochondrial apoptotic pathway, Pro-\(Bax, Bak ...](#) [۱۶](#) 2021
M Sanaei, F Kavooosi
Asian Pacific Journal of Cancer Prevention 22 (S1), 89-95
- 18-[Effect of curcumin in comparison with trichostatin A on the reactivation of estrogen receptor alpha gene expression, cell growth inhibition and apoptosis induction in ...](#) [۱۶](#) 2020
M Sanaei, F Kavooosi, M Arabloo
Asian Pacific journal of cancer prevention: APJCP 21 (4), 1045
- 19-[The effect of 5-aza-2'-deoxycytidine in combination to and in comparison with vorinostat on DNA methyltransferases, histone deacetylase 1, glutathione S-transferase 1 and ...](#) [۱۶](#) 2020
M Sanaei, F Kavooosi, Z Esmi
International Journal of Hematology-Oncology and Stem Cell Research 14 (1), 45
- 20-[Effect of valproic acid and zebularine on SOCS-1 and SOCS-3 gene expression in colon carcinoma SW48 cell line](#) [۱۳](#) 2020
M Sanaei, F Kavooosi, H Behjoo
Experimental Oncology 42 (3), 183-87
- 21-[Effect of Genistein and 17-β Estradiol on the Viability and Apoptosis of Human Hepatocellular Carcinoma HepG2 cell line](#) [۱۳](#) 2017
M Sanaei, F Kavooosi, M Pourahmadi, SN Moosavi
Advanced Biomedical Research 6
- 22-[Effect of DNA methyltransferase in comparison to and in combination with histone deacetylase inhibitors on hepatocellular carcinoma HepG2 cell line](#) [۱۰](#) 2019
M Sanaei, F Kavooosi
Asian Pacific journal of cancer prevention: APJCP 20 (4), 1119
- 23-[Investigation of the Effect of 5-Aza-2'-Deoxycytidine on p15INK4, p16INK4, p18INK4, and p19INK4 Genes Expression, Cell Growth Inhibition, and Apoptosis Induction in ...](#) [۷](#) 2020
M Sanaei, F Kavooosi, A Ghasemi
Advanced Biomedical Research 9
- 24-[Effect of 5-aza-2'-deoxycytidine on p16INK4a, p14ARF, p15INK4b Genes](#) [۷](#) 2019

- [Expression, Cell Viability, and Apoptosis in PLC/PRF5 and MIA Paca-2 Cell Lines.](#)
M Sanaei, F Kavooosi, M Mohammadi, M Khanezad
Iranian Journal of Pediatric Hematology & Oncology 9 (4)
- 25-[Effect of vorinostat on INK4 family and HDACs 1, 2, and 3 in pancreatic cancer and hepatocellular carcinoma](#) Δ 2021
M Sanaei, F Kavooosi
Research in Pharmaceutical Sciences 16 (3), 260
- 26-[Effect of Zebularine on p16INK4a, p14ARF, p15INK4b, and DNA Methyltransferase 1 Gene Expression, Cell Growth Inhibition, and Apoptosis Induction in Human Hepatocellular ...](#) Δ 2020
M Sanaei, F Kavooosi, F Hosseini
Iranian Journal of Pharmaceutical Research: IJPR 19 (4), 193
- 27-[Comparative analysis of the effects of 17-beta estradiol on proliferation, and apoptosis in hepatocellular carcinoma Hep G2 and LCL-PI 11 cell lines](#) Δ 2018
M Sanaei, F Kavooosi, F Dehghani
Asian Pacific Journal of Cancer Prevention: APJCP 19 (9), 2637
- 28-[Effect of valproic acid on proliferation and apoptosis of colon cancer HT 29 cell line](#) Δ 2016
M Sanaei, F Kavooosi, S Atashpour
GJMR 3 (1), 21-6
- 29-[Apoptotic effect of genistein on hepatocellular carcinoma HepG 2 cell line](#) Δ 2016
M Sanaei, F Kavooosi, M Arezoo
Global Journal of Medicine Researches and Studies 3 (1), 1-8
- 30-[Effect of 5'-fluoro-2'-deoxycytidine and sodium butyrate on the genes of the intrinsic apoptotic pathway, p21, p53, cell viability, and apoptosis in human hepatocellular ...](#) ∇ 2021
M Sanaei, F Kavooosi, MA Moezzi
Iranian Journal of Pediatric Hematology & Oncology
- 31-[Effect of Decitabine \(5-aza-2'-deoxycytidine, 5-aza-CdR\) in Comparison with Vorinostat \(Suberoylanilide Hydroxamic Acid, SAHA\) on DNMT1, DNMT3a and DNMT3b, HDAC 1-3, SOCS 1 ...](#) ∇ 2021
M Sanaei, F Kavooosi, M Pourahmadi
Asian Pacific journal of cancer prevention: APJCP 22 (7), 2089
- 32-[Effect of Trichostatin A on histone deacetylases 1, 2 and 3, p21Cip1/Waf1/Sdi1, p27Kip1, and p57Kip2 gene expression in breast cancer SK-BR-3 cell line](#) ∇ 2020
M Sanaei, F Kavooosi
Asian Pacific Journal of Cancer Biology 5 (2), 57-62
- 33-[Effect of 5-aza-2'-deoxycytidine on estrogen receptor alpha/beta and DNA methyltransferase 1 genes expression, apoptosis induction, and cell growth prevention of the colon ...](#) ∇ 2020
M Sanaei, F Kavooosi
International journal of preventive medicine 11
- 34-[Effect of valproic acid on proliferation and apoptosis of hepatocellular carcinoma HepG 2 cell line](#) ∇ 2017
M Sanaei, F Kavooosi, S Atashpour, F Abbasi
GJMR 4 (1), 7-12

- 35-[Effects of trichostatin A on the intrinsic and extrinsic apoptotic pathway, cell viability, and apoptosis induction in hepatocellular carcinoma cell lines](#) ۳ 2021
M Sanaei, F Kavooosi
Gastroenterology and Hepatology From Bed to Bench 14 (4), 323
- 36-[Investigation of the Effect of 5-Aza-2'-Deoxycytidine in Comparison to and in Combination with Trichostatin A on P16INK4a, P14ARF, P15INK4b Gene Expression, Cell Growth ...](#) ۳ 2021
M Sanaei, F Kavooosi, V Ghasemzadeh
International Journal of Preventive Medicine 12
- 37-[The Effects of 5-Aza-2'-Deoxycytidine and Valproic Acid on Apoptosis Induction and Cell Growth Inhibition in Colon Cancer HT 29 Cell Line](#) ۳ 2021
M Sanaei, F Kavooosi, H Sahraeian
International Journal of Preventive Medicine 12
- 38-[Effect of 5-aza-2'-deoxycytidine on p27Kip1, p21Cip1/Waf1/Sdi1, p57Kip2, and DNA methyltransferase 1 genes expression, cell growth inhibition and apoptosis induction in colon ...](#) ۳ 2020
M Sanaei, F Kavooosi, S Nasiri
Galen Medical Journal 9, e1899
- 39-[Profound inhibitory and apoptotic effects of histone deacetylase inhibitor valproic acid on different cancers](#) ۳ 2019
M Sanaei, F Kavooosi
Crescent J. Med. Biol. Sci 6, 441-448
- 40-[The effect of valproic acid on intrinsic, extrinsic, and JAK/STAT pathways in neuroblastoma and glioblastoma cell lines](#) ۳ 2022
M Sanaei, F Kavooosi
Research in Pharmaceutical Sciences 17 (4), 392-409
- 41-[Effect of sodium butyrate on p16INK4a, p14ARF, p15INK4b, class I HDACs \(HDACs 1, 2, 3\) class II HDACs \(HDACs 4, 5, 6\), cell growth inhibition and apoptosis induction in ...](#) ۳ 2022
M Sanaei, F Kavooosi
Asian Pacific Journal of Cancer Prevention: APJCP 23 (3), 795
- 42-[Effect of Zebularine in Comparison to Trichostatin A on the Intrinsic and Extrinsic Apoptotic Pathway, Cell Viability, and Apoptosis in Hepatocellular Carcinoma SK-Hep 1, Human ...](#) ۳ 2021
M Sanaei, F Kavooosi
Iranian Journal of Pharmaceutical Research: IJPR 20 (3), 310
- 43-[Apoptotic Effect of Tamoxifen on Hepatocellular Carcinoma HepG 2 Cell Line](#) ۳ 2016
M Sanaei, F Kavooosi, S Rakhshandehroo
Global Journal of Medicine Researches and Studies 3 (1), 9-14
- 44-[Effects of valproic acid on SOCS-1, SOCS-2, SOCS-3, SOCS-5, SOCS6, and SOCS-7 gene expression and cell growth inhibition in colon carcinoma](#) ۳ 2022
M Sanaei, F Kavooosi, M Safarzadeh
Gastroenterology and Hepatology From Bed to Bench 15 (1), 39
- 45-[Effect of valproic acid on extrinsic \(DR4, DR5, FAS, FAS-L, TRAIL\) and intrinsic](#) ۳ 2021

- [\(BAX, BAK and APAF1, Bcl-2, and Bcl-xL\) apoptotic pathways, cell viability and apoptosis in ...](#)
M Sanaei, F Kavooosi
Feyz, Journal of Kashan University of Medical Sciences 24 (6), 601-609
- 46-[Histone Deacetylase Inhibitors, Intrinsic and Extrinsic Apoptotic Pathways, and Epigenetic Alterations of Histone Deacetylases \(HDACs\) in Hepatocellular Carcinoma](#) 2021
M Sanaei, F Kavooosi
Iranian Journal of Pharmaceutical Research: IJPR 20 (3), 324
- 47-[Effect of Genistein on DNMT1 Gene Expression and Cell Proliferation of Hepatocellular Carcinoma HepG2 Cell Line](#) 2017
M Sanaei, F Kavooosi, A Roustazadeh, F Golestan
Global Journal of Medicine Researches and Studies 4 (1), 1-6
- 48-[Inhibitory effect of genistein on PLC/PRF5 hepatocellular carcinoma cell line](#) 2015
DM NIKBAKHT, F Kavooosi, A Valiani, E Esfandiari, M Sanaei, ...
INTERNATIONAL JOURNAL OF PREVENTIVE MEDICINE 6 (6), 0-0
- 49-[Effects of Trichostatin A on the Histone Deacetylases \(HDACs\), Intrinsic Apoptotic Pathway, p21/Waf1/Cip1, and p53 in Human Neuroblastoma, Glioblastoma, Hepatocellular ...](#) 2023
M Sanaei, F Kavooosi
Iranian Journal of Pediatric Hematology & Oncology
- 50-[Effect of 5'-Fluoro-2'-Deoxycytidine and Sodium Butyrate on the Gene Expression of the Intrinsic Apoptotic Pathway, p21, p27, and p53 Genes Expression, Cell Viability, and ...](#) 2023
M Sanaei, F Kavooosi, M Safari
Advanced Biomedical Research 12
- 51-[Effect of Sodium Butyrate and Epigallocatechin-3-Gallate on the Genes Expression of Intrinsic Apoptotic Pathway on PA-TU-8902, CFPAC-1, and CAPAN-1 Human Pancreatic Cancer Cell ...](#) 2022
M Sanaei, F Kavooosi, IP Soufiani
Galen Medical Journal 11, e2248-e2248
- 52-[The Effect of Valproic Acid Drug on the Expression of SOCS1, SOCS3, JAK1, JAK2, STAT3, STAT5A and STAT5B Genes in HepG2 Cell Line Liver Cancer](#) 2022
M Sanai Jahormi, F Kaousi
Armaghane Danesh 27 (3), 336-348
- 53-[Effect of 5'-fluoro-2'-deoxycytidine, 5-azacytidine, and 5-aza-2'-deoxycytidine on DNA Methyltransferase 1, CIP/KIP Family, and INK4a/ARF in Colon Cancer HCT-116 Cell Line](#) 2021
M Sanaei, F Kavooosi
International Journal of Cancer Management 14 (12)
- 54-[خاموش شدن ژن به روش ایبی ژنتیک در شروع و پیشرفت سرطان کولورکتال](#) 2021
کاوسی, سنایی
(مجله دانشکده پزشکی دانشگاه علوم پزشکی مشهد ۶۴: ۴)
- 55-[Effects of trichostatin A on FHIT and WWOX genes expression, cell growth inhibition and apoptosis induction in hepatocellular carcinoma WCH 17 cell line](#) 2021

- M Sanaei, F Kavooosi, H Karami
Brazilian Journal of Pharmaceutical Sciences 57
- 56-[The Effect of Eight Weeks of Royal Jelly Consumption on Some of Apoptotic Indicators in Trimethyltin-Induced Alzheimer's Mice](#) 2021
M Azimpour, M Fathi, O Dezfulian
Armaghane Danesh 26 (3), 307-323
- 57-[Evaluation of the Effect of Valproic Acid on JAK/STAT Pathway, SOCS1, SOCS3, Bcl-xL, c-Myc, and Mcl-1 Gene Expression, Cell Growth Inhibition and Apoptosis Induction in Human ...](#) 2021
M Sanaei Jahromi, F Kavousi
Armaghane Danesh 26 (3), 324-337
- 58-[Epigenetic gene silencing in colorectal cancer initiation and progression, review article](#) 2021
F KAVOOSI, M SANAEI
MEDICAL JOURNAL OF MASHHAD UNIVERSITY OF MEDICAL SCIENCES 64 (400516), 3416-3426
- 59-[Effect of 5'-fluoro-2'-deoxycytidine, 5-azacytidine, and 5-aza-2'-deoxycytidine on DNA Methyltransferase 1, CIP/KIP Family, and INK4a/ARF in Colon Cancer HCT-116 Cell Line](#) 2021
M Sanaei, F Kavooosi
INTERNATIONAL JOURNAL OF CANCER MANAGEMENT (IRANIAN JOURNAL OF CANCER ...
- 60-[Effect of 5-fluoro-2'-deoxycytidine \(FdCyd\) on p16INK4a, p14ARF, p15INK4b, and DNA methyltransferase 1, 3a, and 3b Genes Expression, Apoptosis Induction, and Cell Growth ...](#) 2021
M Sanaei, F Kavooosi
Iranian Journal of Pediatric Hematology & Oncology 11 (1)
- 61-[Effect of trichostatin A on histone deacetylase 1 \(HDAC 1\) and CIP/KIP \(p21CIP1/WAF1, p27KIP1, and p57KIP2\) gene expression, cell growth inhibition and apoptosis induction in ...](#) 2020
M Sanaei, F Kavooosi
Razi Journal of Medical Sciences 27 (7), 78-87
- 62-[Effect of 5-Azacytidine on the Cell Growth Inhibition and Apoptosis Induction Lung Cancer A549 Cell Line](#) 2020
M Sanaei Jahromi, F Kavousi
Armaghane Danesh 25 (5), 630-641
- 63-[DNA methylation of tumor suppressor genes in hepatocellular carcinoma.](#) 2020
M Sanaei, F Kavooosi, F Modaresi
Iranian Journal of Pediatric Hematology & Oncology 10 (4)
- 64-[The role of histone deacetylases in human gastrointestinal and associated glands cancer](#) 2019
M Sanaei, F Kavooosi
Journal of Advanced Biomedical Sciences 9 (3), 1534-1541
- 65-[Effect of combined DNA methyltransferase and histone deacetylase inhibitors on](#) 2017

[hepatocellular carcinoma HepG2 cell line](#)

M Sanaei, F Kavooosi

INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE 40, S53-S53

66-[EPIGENETIC CANCER CAUSES AND DRUGS](#)

M Sanaei, F Kavooosi

2017

GLOBAL JOURNAL OF MEDICINE RESEARCHES AND STUDIES 4 (1)

67-[Effect of 17-β estradiol on Proliferation and Apoptosis of Hepatocellular Carcinoma HepG 2 Cell Line](#)

M Sanaei, F Kavooosi

2017

Global Journal of Medicine Researches and Studies 4 (1)

68-[Stimulatory and Inhibitory Effects of Low and High Concentrations of Genistein on Human Hepatocellular Carcinoma HepG2 Cell Line](#)

M Sanaei, F Kavooosi

2017

Global Journal of Medicine Researches and Studies 4 (1), 13-17

69-[Effect of Curcumin on Apoptosis and Proliferation of Human Hepatocellular Carcinoma WCH-17 Cell Line](#)

M Sanaei, F Kavooosi

2016

Global Journal of Medicine Researches and Studies 3 (1), 27-31

70-[Phytoestrogens and Hepatocellular Carcinoma Chemoprevention](#)

M Sanaei, F Kavooosi

2014

Global Journal of Medicine Researches and Studies 1 (4), 135-143

II. Books

1-Human anatomy for medical students and related groups.F kavooosi,M sanaei, 1397,Gorgan, Noroozi

2-خداشناسی از دیدگاه علوم تشریحی، فریدون کاوسی، معصومه سنایی، ۱۳۹۵، انتشارات نوروزی-

3-آناتومی قلب به نظم و نثر ، فریدون کاوسی، معصومه سنایی، ۱۳۹۵، انتشارات امید تهران -

Presentations

.....
.....
.....

.....
.....
.....

.....
.....
.....

Participation in Conferences and Seminars

