Ehsan Arefian

List of Publications by Year
in descending order

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103	2,170	218677	315739
papers	citations	26 h-index	38 g-index

107	107	107	3765
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MicroRNA-340 inhibits the migration, invasion, and metastasis of breast cancer cells by targeting Wnt pathway. Tumor Biology, 2016, 37, 8993-9000.	1.8	83
2	Development of a robust, low cost stem-loop real-time quantification PCR technique for miRNA expression analysis. Molecular Biology Reports, 2013, 40, 3665-3674.	2.3	81
3	Nanofibrous Poly(Îµ-Caprolactone)/Poly(Vinyl Alcohol)/Chitosan Hybrid Scaffolds for Bone Tissue Engineering using Mesenchymal Stem Cells. International Journal of Artificial Organs, 2007, 30, 204-211.	1.4	68
4	Differential Expression of miR-93 and miR-21 in Granulosa Cells and Follicular Fluid of Polycystic Ovary Syndrome Associating with Different Phenotypes. Scientific Reports, 2017, 7, 14671.	3.3	64
5	MicroRNAâ€124 Regulates Neuronal Differentiation of Mesenchymal Stem Cells by Targeting Sp1 mRNA. Journal of Cellular Biochemistry, 2015, 116, 943-953.	2.6	56
6	Mesenchymal stem cells from trabecular meshwork become photoreceptor-like cells on amniotic membrane. Neuroscience Letters, 2013, 541, 43-48.	2.1	53
7	In vitro differentiation of cord blood unrestricted somatic stem cells expressing dopamine-associated genes into neuron-like cells. Cell Biology International, 2007, 31, 299-303.	3.0	51
8	Optimization of chitosan nanoparticles as an anti-HIV siRNA delivery vehicle. International Journal of Biological Macromolecules, 2019, 129, 305-315.	7.5	49
9	FOXC1 in human trabecular meshwork cells is involved in regulatory pathway that includes miR-204, MEIS2, and ITGÎ²1. Experimental Eye Research, 2013, 111, 112-121.	2.6	46
10	MAPK and JAK/STAT pathways targeted by miR-23a and miR-23b in prostate cancer: computational and in vitro approaches. Tumor Biology, 2015, 36, 4203-4212.	1.8	46
11	Genetic Modification of Mesenchymal Stem Cells to Overexpress CXCR4 and CXCR7 Does Not Improve the Homing and Therapeutic Potentials of These Cells in Experimental Acute Kidney Injury. Stem Cells and Development, 2012, 21, 2969-2980.	2.1	45
12	Analysis of microRNA signatures using size-coded ligation-mediated PCR. Nucleic Acids Research, 2011, 39, e80-e80.	14.5	43
13	Identification of mutation in GTPBP2 in patients of a family with neurodegeneration accompanied by iron deposition in the brain. Neurobiology of Aging, 2016, 38, 216.e11-216.e18.	3.1	43
14	Glutathione responsive chitosan-thiolated dextran conjugated miR-145 nanoparticles targeted with AS1411 aptamer for cancer treatment. Carbohydrate Polymers, 2018, 201, 131-140.	10.2	42
15	Nanotopographical cues of electrospun PLLA efficiently modulate non-coding RNA network to osteogenic differentiation of mesenchymal stem cells during BMP signaling pathway. Materials Science and Engineering C, 2018, 93, 686-703.	7.3	42
16	Melatonin modulates the expression of BCL-xl and improve the development of vitrified embryos obtained by IVF in mice. Journal of Assisted Reproduction and Genetics, 2014, 31, 453-461.	2.5	40
17	Mutation inADORA1identified as likely cause of early-onset parkinsonism and cognitive dysfunction. Movement Disorders, 2016, 31, 1004-1011.	3.9	38
18	Nano polyelectrolyte complexes of carboxymethyl dextran and chitosan to improve chitosan-mediated delivery of miR-145. Carbohydrate Polymers, 2017, 159, 66-75.	10.2	36

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19	Expression of miR-15a, miR-145, and miR-182 in granulosa-lutein cells, follicular fluid, and serum of women with polycystic ovary syndrome (PCOS). Archives of Gynecology and Obstetrics, 2018, 297, 221-231.	1.7	36
20	Insulin Resistance Associated Genes and miRNAs. Applied Biochemistry and Biotechnology, 2014, 174, 63-80.	2.9	34
21	Chitosan and thiolated chitosan: Novel therapeutic approach for preventing corneal haze after chemical injuries. Carbohydrate Polymers, 2018, 179, 42-49.	10.2	32
22	MicroRNAâ€4731â€5p delivered by ADâ€mesenchymal stem cells induces cell cycle arrest and apoptosis in glioblastoma. Journal of Cellular Physiology, 2020, 235, 8167-8175.	4.1	32
23	The role of microRNAs in stemness of cancer stem cells. Oncology Reviews, 2013, 7, 8.	1.8	31
24	Chitosan polyplex nanoparticle vector for miR-145 expression in MCF-7: Optimization by design of experiment. International Journal of Biological Macromolecules, 2015, 81, 828-837.	7.5	30
25	MicroRNA-129 Inhibits Glioma Cell Growth by Targeting CDK4, CDK6, and MDM2. Molecular Therapy - Nucleic Acids, 2020, 19, 759-764.	5.1	30
26	Cationic graphene oxide nanoplatform mediates miR-101 delivery to promote apoptosis by regulating autophagy and stress. International Journal of Nanomedicine, 2018, Volume 13, 5865-5886.	6.7	29
27	3D-Printed PCL Scaffolds Coated with Nanobioceramics Enhance Osteogenic Differentiation of Stem Cells. ACS Omega, 2021, 6, 35284-35296.	3.5	27
28	A comparison of pluripotency and differentiation status of four mesenchymal adult stem cells. Molecular Biology Reports, 2013, 40, 3693-3703.	2.3	26
29	Decellularized Pancreas Matrix Scaffolds for Tissue Engineering Using Ductal or Arterial Catheterization. Cells Tissues Organs, 2018, 205, 72-84.	2.3	26
30	MicroRNA 17â€“92 expressed by a transposoneâ€based vector changes expression level of cellâ€cycleâ€related genes. Cell Biology International, 2012, 36, 1005-1012.	3.0	25
31	Transcription factor decoy: a pre-transcriptional approach for gene downregulation purpose in cancer. Tumor Biology, 2015, 36, 4871-4881.	1.8	25
32	The effect of miRâ€579 on the PI3K/AKT pathway in human glioblastoma PTEN mutant cell lines. Journal of Cellular Biochemistry, 2019, 120, 16760-16774.	2.6	25
33	The roles of miR-146a in the differentiation of Jurkat T-lymphoblasts. Hematology, 2014, 19, 141-147.	1.5	24
34	Evaluation of cationic dendrimer and lipid as transfection reagents of short RNAs for stem cell modification. International Journal of Pharmaceutics, 2013, 448, 231-238.	5.2	23
35	Co-delivery of gemcitabine prodrug along with anti NF-ÎºB siRNA by tri-layer micelles can increase cytotoxicity, uptake and accumulation of the system in the cancers. Materials Science and Engineering C, 2020, 116, 111161.	7.3	23
36	MiR-371-373 cluster acts as a tumor-suppressor-miR and promotes cell cycle arrest in unrestricted somatic stem cells. Tumor Biology, 2015, 36, 7765-7774.	1.8	22

#	Article	IF	Citations
37	Transcript-level regulation of MALAT1-mediated cell cycle and apoptosis genes using dual MEK/Aurora kinase inhibitor â€œBI-847325â€•on anaplastic thyroid carcinoma. DARU, Journal of Pharmaceutical Sciences, 2019, 27, 1-7.	2.0	22
38	Inhibiting the expression of anti-apoptotic genes BCL2L1 and MCL1, and apoptosis induction in glioblastoma cells by microRNA-342. Biomedicine and Pharmacotherapy, 2020, 121, 109641.	5.6	22
39	Trimethyl chitosan-hyaluronic acid nano-polyplexes for intravitreal VEGFR-2 siRNA delivery: Formulation and in vivo efficacy evaluation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 26, 102181.	3.3	22
40	A meta-analysis of gene expression data highlights synaptic dysfunction in the hippocampus of brains with Alzheimerâ€™s disease. Scientific Reports, 2020, 10, 8384.	3.3	22
41	miR-146a and miR-150 promote the differentiation of CD133+ cells into T-lymphoid lineage. Molecular Biology Reports, 2013, 40, 4713-4719.	2.3	21
42	miR-548x and miR-4698 controlled cell proliferation by affecting the PI3K/AKT signaling pathway in Glioblastoma cell lines. Scientific Reports, 2020, 10, 1558.	3.3	21
43	Expression Change of miR-214 and miR-135 during Muscle Differentiation. Cell Journal, 2015, 17, 461-70.	0.2	21
44	Silencing of Hsp90 Chaperone Expression Protects Against 6-Hydroxydopamine Toxicity in PC12 Cells. Journal of Molecular Neuroscience, 2014, 52, 392-402.	2.3	20
45	Transcription factor decoy against stem cells master regulators, Nanog and Oct-4: a possible approach for differentiation therapy. Tumor Biology, 2015, 36, 2621-2629.	1.8	20
46	Inhibiting hepatic gluconeogenesis by chitosan lactate nanoparticles containing CRTC2 siRNA targeted by poly(ethylene glycol)-glycyrrhetinic acid. Drug Delivery and Translational Research, 2019, 9, 694-706.	5.8	20
47	Tollâ€like receptor4 as a modulator of fertilization and subsequent preâ€implantation development following in vitro maturation in mice. American Journal of Reproductive Immunology, 2017, 78, e12720.	1.2	19
48	miRandb: a resource of online services for miRNA research. Briefings in Bioinformatics, 2018, 19, bbw109.	6.5	19
49	Designing a whole cell bioreporter to show antioxidant activities of agents that work by promotion of the KEAP1â€“NRF2 signaling pathway. Scientific Reports, 2019, 9, 3248.	3.3	19
50	Photodynamic inactivation diminishes quorum sensing-mediated virulence factor production and biofilm formation of Serratia marcescens. World Journal of Microbiology and Biotechnology, 2019, 35, 191.	3.6	18
51	Nanofibrous Scaffolds Containing Hydroxyapatite and Microfluidic-Prepared Polyamidoamin/BMP-2 Plasmid Dendriplexes for Bone Tissue Engineering Applications . International Journal of Nanomedicine, 2020, Volume 15, 2633-2646.	6.7	18
52	Reproducible and Reliable Real-time PCR Assay to Measure Mature Form of miR-141. Applied Immunohistochemistry and Molecular Morphology, 2016, 24, 138-143.	1.2	17
53	Suppressing the molecular signaling pathways involved in inflammation and cancer in breast cancer cell lines MDA-MB-231 and MCF-7 by miR-590. Tumor Biology, 2017, 39, 101042831769757.	1.8	17
54	Nanostructured lipid carriers containing rapamycin for prevention of corneal fibroblasts proliferation and haze propagation after burn injuries: In vitro and in vivo. Journal of Cellular Physiology, 2019, 234, 4702-4712.	4.1	17

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55	MSC-derived exosomes carrying a cocktail of exogenous interfering RNAs an unprecedented therapy in era of COVID-19 outbreak. Journal of Translational Medicine, 2021, 19, 164.	4.4	16
56	Echinacea purpurea Polysaccharide Reduces the Latency Rate in Herpes Simplex Virus Type-1 Infections. Intervirology, 2009, 52, 29-34.	2.8	15
57	Corneal chemical burn treatment through a delivery system consisting of TGF-Î²1 siRNA: in vitro and in vivo. Drug Delivery and Translational Research, 2018, 8, 1127-1138.	5.8	15
58	Inhibitory effect of flavonoid xanthomicrol on tripleâ€negative breast tumor via regulation of cancerâ€associated microRNAs. Phytotherapy Research, 2021, 35, 1967-1982.	5.8	15
59	The Potential Therapeutic Effect of RNA Interference and Natural Products on COVID-19: A Review of the Coronaviruses Infection. Frontiers in Pharmacology, 2021, 12, 616993.	3.5	15
60	Development of Insulin Resistance through Induction of miRNA-135 in C2C12 Cells. Cell Journal, 2016, 18, 353-61.	0.2	15
61	Investigation of deregulated genes of Notch signaling pathway in human T cell acute lymphoblastic leukemia cell lines and clinical samples. Molecular Biology Reports, 2013, 40, 5531-5540.	2.3	14
62	Corticolimbic analysis of microRNAs and protein expressions in scopolamine-induced memory loss under stress. Neurobiology of Learning and Memory, 2019, 164, 107065.	1.9	14
63	Network of three specific microRNAs influence type 2 diabetes through inducing insulin resistance in muscle cell lines. Journal of Cellular Biochemistry, 2019, 120, 1532-1538.	2.6	14
64	Development of an mRNA-LNP Vaccine against SARS-CoV-2: Evaluation of Immune Response in Mouse and Rhesus Macaque. Vaccines, 2021, 9, 1007.	4.4	14
65	Acute Morphine Administration Reduces White Blood Cellsâ€™ Capability to Induce Innate Resistance against HSV-1 Infection in BALB/c Mice. NeuroImmunoModulation, 2007, 14, 16-23.	1.8	13
66	Mir-302 cluster exhibits tumor suppressor properties on human unrestricted somatic stem cells. Tumor Biology, 2014, 35, 6657-6664.	1.8	13
67	Flavonoid calycopterin triggers apoptosis in triple-negative and ER-positive human breast cancer cells through activating different patterns of gene expression. Naunyn-Schmiedeberg's Archives of Pharmacology, 2020, 393, 2145-2156.	3.0	13
68	Severely damaged kidneys possess multipotent renoprotective stem cells. Cytotherapy, 2010, 12, 303-312.	0.7	12
69	Mesenchymal stem cells loaded with oncolytic reovirus enhances antitumor activity in mice models of colorectal cancer. Biochemical Pharmacology, 2021, 190, 114644.	4.4	12
70	Potential of chitosan/alginate nanoparticles as a non-viral vector for gene delivery: Formulation and optimization using D-optimal design. Materials Science and Engineering C, 2021, 128, 112262.	7.3	12
71	The potential role of miRâ€1290 in cancer progression, diagnosis, prognosis, and treatment: An oncomiR or oncoâ€suppressor microRNA?. Journal of Cellular Biochemistry, 2022, 123, 506-531.	2.6	12
72	Intracerebral Administration of Autologous Mesenchymal Stem Cells as HSV-TK Gene Vehicle for Treatment of Glioblastoma Multiform: Safety and Feasibility Assessment. Molecular Neurobiology, 2021, 58, 4425-4436.	4.0	11

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73	The synergistic anticancer effects of ReoT3D, CPT-11, and BBI608 on murine colorectal cancer cells. DARU, Journal of Pharmaceutical Sciences, 2020, 28, 555-565.	2.0	10
74	miR-424 induces apoptosis in glioblastoma cells and targets AKT1 and RAF1 oncogenes from the ERBB signaling pathway. European Journal of Pharmacology, 2021, 906, 174273.	3.5	10
75	Alginate-based 3D cell culture technique to evaluate the half-maximal inhibitory concentration: an in vitro model of anticancer drug study for anaplastic thyroid carcinoma. Thyroid Research, 2021, 14, 27.	1.5	10
76	MicroRNAs that target RGS5. Iranian Journal of Basic Medical Sciences, 2015, 18, 108-14.	1.0	9
77	Wnt5A and TGFÎ²1 Converges through YAP1 Activity and Integrin Alpha v Up-Regulation Promoting Epithelial to Mesenchymal Transition in Ovarian Cancer Cells and Mesothelial Cell Activation. Cells, 2022, 11, 237.	4.1	9
78	The potency of hsa-miR-9-1 overexpression in photoreceptor differentiation of conjunctiva mesenchymal stem cells on a 3D nanofibrous scaffold. Biochemical and Biophysical Research Communications, 2020, 529, 526-532.	2.1	8
79	Non-coding RNAs enhance the apoptosis efficacy of therapeutic agents used for the treatment of glioblastoma multiform. Journal of Drug Targeting, 2022, 30, 589-602.	4.4	8
80	The role of miR-17-92 cluster in the expression of tumor suppressor genes in unrestricted somatic stem cells. Biologicals, 2017, 46, 143-147.	1.4	7
81	Pluripotency Crossroads: Junction of Transcription Factors, Epigenetic Mechanisms, MicroRNAs, and Long Non-coding RNAs. Current Stem Cell Research and Therapy, 2017, 12, 300-311.	1.3	7
82	Inhibition of Respiratory Syncytial Virus Replication by Simultaneous Targeting of mRNA and Genomic RNA Using Dual-Targeting siRNAs. Molecular Biotechnology, 2016, 58, 767-775.	2.4	5
83	The effect of bovine rotavirus and its nonstructural protein 4 on ER stress-mediated apoptosis in HeLa and HT-29 cells. Tumor Biology, 2016, 37, 3155-3161.	1.8	5
84	DKK1 expression is suppressed by miR-9 during induced dopaminergic differentiation of human trabecular meshwork mesenchymal stem cells. Neuroscience Letters, 2019, 707, 134250.	2.1	5
85	Autophagy Gene Activity May Act As a Key Factor for Sensitivity of Tumor Cells to Oncolytic Vesicular Stomatitis Virus. Iranian Journal of Cancer Prevention, 2016, 9, e3919.	0.7	5
86	Lentivirus expressing shRNAs inhibit the replication of contagious ecthyma virus by targeting DNA polymerase gene. BMC Biotechnology, 2020, 20, 18.	3.3	4
87	Evaluation of Î³-interferon kinetics in HSV-1 infected mice in different days post infection (in vivo) and post re-stimulation (in vitro). Comparative Immunology, Microbiology and Infectious Diseases, 2007, 30, 1-9.	1.6	3
88	Efficient inhibition of human immunodeficiency virus replication using novel modified microRNA-30a targeting 3â€²-untranslated region transcripts. Experimental and Therapeutic Medicine, 2016, 11, 1833-1838.	1.8	3
89	Downregulation of hepatitis C virus replication by miRâ€196a using lentiviral vectors. Microbiology and Immunology, 2021, 65, 161-170.	1.4	3
90	Tumor Microenvironment Changing through Application of MicroRNA-34a Related Mesenchymal Stem Cells Conditioned Medium: Modulation of Breast Cancer Cells toward Non-aggressive Behavior. Iranian Journal of Allergy, Asthma and Immunology, 0, , .	0.4	3

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91	Application of iPSCs derived pancreatic Î²-like cells using pancreatic bio-scaffold. Experimental Cell Research, 2021, 405, 112667.	2.6	3
92	Potential siRNA Molecules for Nucleoprotein and M2/L Overlapping Region of Respiratory Syncytial Virus: In Silico Design. Jundishapur Journal of Microbiology, 2016, 9, e34304.	0.5	3
93	Circulating miR-625 as an Emerging Biomarker for Liver Cirrhosis. Clinical Laboratory, 2019, 65, .	0.5	3
94	A Wnt/Î²â€catenin signaling pathway is involved in early dopaminergic differentiation of trabecular meshworkâ€derived mesenchymal stem cells. Journal of Cellular Biochemistry, 2022, , .	2.6	3
95	An <scp>EBV</scp>â€based plasmid can replicate and maintain in stem cells. Biotechnology Progress, 2015, 31, 1579-1585.	2.6	2
96	Possible involvement of miRNAs in tropism of Parvovirus B19. Molecular Biology Reports, 2016, 43, 175-181.	2.3	2
97	Running the differentiation program by transcription factor decoys in stem cells. Stem Cell Fundamentals and Practice, 2015, 1, 16.	0.0	2
98	Graphene/Si-Based Biosensor for Glioblastoma Cancer Cell Detection. IEEE Sensors Journal, 2022, 22, 5548-5554.	4.7	2
99	Enrichment of cerebrospinal fluid samples on cell culture for enhancement of sensitivity of mumps and enterovirus detection by multiplex RT-PCR. Diagnostic Microbiology and Infectious Disease, 2008, 60, 375-379.	1.8	1
100	Induction of the antioxidant defense system using long-chain carotenoids extracted from extreme halophilic archaeon, Halovenus aranensis. International Microbiology, 2022, 25, 165-175.	2.4	1
101	The miR-142 Suppresses U-87 Glioblastoma Cell Growth by Targeting EGFR Oncogenic Signaling Pathway.. Iranian Journal of Pharmaceutical Research, 2021, 20, 202-212.	0.5	1
102	MicroRNA 17â€“92 expressed by a transposoneâ€based vector changes expression level of cellâ€cycleâ€related genes. Cell Biology International, 2012, 36, 1299-1299.	3.0	0
103	Bioinformatics analysis of Ronin gene and their potential role in pluripotency control. Gene Reports, 2018, 12, 218-224.	0.8	0