

# CITATION REPORT

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## siRNA Versus miRNA as Therapeutics for Gene Silencing

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#	Paper	IF	Citations
592	Bridging small interfering RNA with giant therapeutic outcomes using nanometric liposomes. <b>2015</b> , 220, 368-387		28
591	Targeted Sterically Stabilized Phospholipid siRNA Nanomedicine for Hepatic and Renal Fibrosis. <b>2016</b> , 6,		18
590	Lipid nanoparticles for targeted siRNA delivery - going from bench to bedside. <b>2016</b> , 11, 3077-86		106
589	Tamoxifen Resistance: Emerging Molecular Targets. <b>2016</b> , 17,		67
588	Delivery of RNAi Therapeutics to the Airways-From Bench to Bedside. <b>2016</b> , 21,		39
587	Gene, Stem Cell, and Alternative Therapies for SCA 1. <b>2016</b> , 9, 67		9
586	Pharmacological Intervention in Hepatic Stellate Cell Activation and Hepatic Fibrosis. <b>2016</b> , 7, 33		68
585	Small Non-coding RNAs Associated with Viral Infectious Diseases of Veterinary Importance: Potential Clinical Applications. <b>2016</b> , 3, 22		15
584	Novel approaches toward managing the micromanagers: 'non-toxic' but effective. <b>2016</b> , 23, 697-698		5
583	Changing calcium: CRAC channel (STIM and Orai) expression, splicing, and posttranslational modifiers. <b>2016</b> , 310, C701-9		22
582	An Amphiphilic Peptide Induces Apoptosis Through the miR29b-p53 Pathway in Cancer Cells. <i>Molecular Therapy - Nucleic Acids</i> , <b>2016</b> , 5, e330	10.7	6
581	DNA methyltransferase inhibitors: an updated patent review (2012-2015). <b>2016</b> , 26, 1017-30		32
580	Evaluating side effects of nanoparticle-mediated siRNA delivery to mesenchymal stem cells using next generation sequencing and enrichment analysis. <b>2016</b> , 1, 193-206		10
579	Protoplast transformation as a potential platform for exploring gene function in <i>Verticillium dahliae</i> . <b>2016</b> , 16, 57		21
578	Ferritin-mediated siRNA delivery and gene silencing in human tumor and primary cells. <b>2016</b> , 98, 143-51		40
577	Potential and development of inhaled RNAi therapeutics for the treatment of pulmonary tuberculosis. <b>2016</b> , 102, 21-32		16
576	RNA-targeted therapeutics in cancer clinical trials: Current status and future directions. <b>2016</b> , 50, 35-47		110

575	Advancing the use of noncoding RNA in regulatory toxicology: Report of an ECETOC workshop. <b>2016</b> , 82, 127-139		7
574	RNAi Screening of the Glucose-Regulated Chaperones in Cancer with Self-Assembled siRNA Nanostructures. <b>2016</b> , 16, 6099-6108		10
573	Magnetic nanoparticle-induced hyperthermia with appropriate payloads: Paul Ehrlich's "magic (nano)bullet" for cancer theranostics?. <b>2016</b> , 50, 217-227		67
572	A review of PCSK9 inhibition and its effects beyond LDL receptors. <b>2016</b> , 10, 1073-80		30
571	Diversification and enrichment of clinical biomaterials inspired by Darwinian evolution. <b>2016</b> , 42, 33-45		8
570	Evaluation of in vivo antitumor effects of low-frequency ultrasound-mediated miRNA-133a microbubble delivery in breast cancer. <b>2016</b> , 5, 2534-43		35
569	Engineering biodegradable micelles of polyethylenimine-based amphiphilic block copolymers for efficient DNA and siRNA delivery. <b>2016</b> , 242, 71-79		41
568	Small Players Ruling the Hard Game: siRNA in Bone Regeneration. <b>2016</b> , 31, 475-87		14
567	Hairpin Ribozyme Genes Curtail Alcohol Drinking: from Rational Design to in vivo Effects in the Rat. <i>Molecular Therapy - Nucleic Acids</i> , <b>2016</b> , 5, e335	10.7	4
566	The contribution of adenines in the catalytic core of 10-23 DNAzyme improved by the 6-amino group modifications. <b>2016</b> , 26, 4462-4465		8
565	Structural studies of the formation of lipoplexes between siRNA and selected bis-imidazolium gemini surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 146, 598-606	6	6
564	A versatile post-synthetic method on a solid support for the synthesis of RNA containing reduction-responsive modifications. <b>2016</b> , 14, 7010-7		11
563	Circular RNA Related to the Chondrocyte ECM Regulates MMP13 Expression by Functioning as a MiR-136 'Sponge' in Human Cartilage Degradation. <b>2016</b> , 6, 22572		216
562	MicroRNA miR-204 and miR-1236 inhibit hepatitis B virus replication via two different mechanisms. <b>2016</b> , 6, 34740		18
561	Attenuation of Lung Ischemia-Reperfusion Injury: Silencing the Fas Gene. <b>2016</b> , 44, 1619-20		2
560	Applying Fluorescence Resonance Energy Transfer (FRET) to Examine Effector Translocation Efficiency by <i>Coxiella burnetii</i> during siRNA Silencing. <b>2016</b> ,		7
559	Control and Eradication Strategies of Hepatitis B Virus. <b>2016</b> , 24, 739-749		35
558	Light-triggered RNA release and induction of hMSC osteogenesis via photodegradable, dual-crosslinked hydrogels. <b>2016</b> , 11, 1535-50		27

557	Recent progress in development of siRNA delivery vehicles for cancer therapy. <b>2016</b> , 104, 61-77	283
556	Pulmonary administration of small interfering RNA: The route to go?. <b>2016</b> , 235, 14-23	27
555	Host microRNA-203a Is antagonistic to the progression of foot-and-mouth disease virus infection. <b>2017</b> , 504, 52-62	11
554	Defective Ribonucleoproteins, Mistakes in RNA Processing, and Diseases. <b>2017</b> , 56, 1367-1382	8
553	Nanocarriers for microRNA delivery in cancer medicine. <b>2017</b> , 35, 350-360	69
552	Construction of a guide-RNA for site-directed RNA mutagenesis utilising intracellular A-to-I RNA editing. <b>2017</b> , 7, 41478	47
551	Targeted si-RNA with liposomes and exosomes (extracellular vesicles): How to unlock the potential. <b>2017</b> , 525, 293-312	26
550	Proof-of-concept study: profile of circulating microRNAs in Bovine serum harvested during acute and persistent FMDV infection. <b>2017</b> , 14, 71	16
549	Selective targeting of point-mutated KRAS through artificial microRNAs. <b>2017</b> , 114, E4203-E4212	30
548	Emerging Roles of circRNA Related to the Mechanical Stress in Human Cartilage Degradation of Osteoarthritis. <i>Molecular Therapy - Nucleic Acids</i> , <b>2017</b> , 7, 223-230	10.7 68
547	Low-level lasers on microRNA and uncoupling protein 2 mRNA levels in human breast cancer cells. <b>2017</b> , 27, 065601	1
546	Design of nanocarriers for nanoscale drug delivery to enhance cancer treatment using hybrid polymer and lipid building blocks. <b>2017</b> , 9, 1334-1355	99
545	Robust Fuel Catalyzed DNA Molecular Machine for in Vivo MicroRNA Detection. <b>2017</b> , 1, 1700060	7
544	miRalyze: an interactive database linking tool to unlock intuitive microRNA regulation of cell signaling pathways. <b>2017</b> , 2017,	11
543	MicroRNA-135a-3p as a promising biomarker and nucleic acid therapeutic agent for ovarian cancer. <b>2017</b> , 108, 886-896	24
542	MicroRNA Expression: Protein Participants in MicroRNA Regulation. <b>2017</b> , 1617, 27-37	19
541	Immunomodulatory Nanomedicine. <b>2017</b> , 17, 1700021	8
540	Inflammation-induced miRNA-155 inhibits self-renewal of neural stem cells via suppression of CCAAT/enhancer binding protein [[C/EBP]] expression. <b>2017</b> , 7, 43604	16

539	Local co-administration of gene-silencing RNA and drugs in cancer therapy: State-of-the art and therapeutic potential. <b>2017</b> , 55, 128-135	18
538	Chemically Caged Nucleic Acids. <b>2017</b> , 46, 634-640	16
537	Photocrosslinkable, biodegradable hydrogels with controlled cell adhesivity for prolonged siRNA delivery to hMSCs to enhance their osteogenic differentiation. <b>2017</b> , 5, 485-495	19
536	Engineered Hydrogels for Local and Sustained Delivery of RNA-Interference Therapies. <b>2017</b> , 6, 1601041	57
535	Recent advances in exosome-based nanovehicles as RNA interference therapeutic carriers. <b>2017</b> , 12, 2653-2675	47
534	Integration of polymers in the pore space of mesoporous nanocarriers for drug delivery. <b>2017</b> , 5, 8891-8903	9
533	Biomedical applications of RNA-based devices. <b>2017</b> , 4, 106-115	9
532	Breeding Avenues in Fruit Crops for Imparting Resistance Against Insect Pests. <b>2017</b> , 289-322	
531	RNA interference for glioblastoma therapy: Innovation ladder from the bench to clinical trials. <b>2017</b> , 188, 26-36	31
530	Advances in the Application and Impact of MicroRNAs as Therapies for Skin Disease. <b>2017</b> , 31, 423-438	20
529	Inhaled powder formulation of naked siRNA using spray drying technology with L-leucine as dispersion enhancer. <b>2017</b> , 530, 40-52	33
528	Inhibitors of connexin and pannexin channels as potential therapeutics. <b>2017</b> , 180, 144-160	89
527	Microscale Symmetrical Electroporator Array as a Versatile Molecular Delivery System. <b>2017</b> , 7, 44757	16
526	Recent advances in uveal melanoma treatment. <b>2017</b> , 37, 1350-1372	19
525	Bio-inspired bioactive glasses for efficient microRNA and drug delivery. <b>2017</b> , 5, 6376-6384	10
524	Small interfering RNA-mediated regulation of gene expression and its role as a plant reverse genetic tool. <b>2017</b> , 22, 549-557	3
523	Efficient delivery of Noggin siRNA enhances osteoblastogenesis. <b>2017</b> , 3, e00450	10
522	MicroRNA therapy inhibits hepatoblastoma growth by targeting $\beta$ catenin and Wnt signaling. <b>2017</b> , 1, 168-183	29

521	Effective and Specific Gene Silencing of Epidermal Growth Factor Receptors Mediated by Conjugated Oxaborole and Galactose-Based Polymers. <b>2017</b> , 6, 768-774	28
520	Controlled and sustained delivery of siRNA/NPs from hydrogels expedites bone fracture healing. <b>2017</b> , 139, 127-138	69
519	Clinical potential of oligonucleotide-based therapeutics in the respiratory system. <b>2017</b> , 169, 83-103	21
518	Recent advances in therapeutic recruitment of mammalian RNAi and bacterial CRISPR-Cas DNA interference pathways as emerging antiviral strategies. <b>2017</b> , 22, 17-30	5
517	Biomaterials to Facilitate Delivery of RNA Agents in Bone Regeneration and Repair. <b>2017</b> , 3, 1195-1206	12
516	The notorious R.N.A. in the spotlight - drug or target for the treatment of disease. <b>2017</b> , 14, 651-668	24
515	The Yin and Yang of nucleic acid-based therapy in the brain. <b>2017</b> , 155, 194-211	22
514	Biodegradable nano-polymers as delivery vehicles for therapeutic small non-coding ribonucleic acids. <b>2017</b> , 245, 116-126	56
513	Leveraging Physiology for Precision Drug Delivery. <b>2017</b> , 97, 189-225	99
512	RNA Interference and RNA Editing. <b>2017</b> , 345-376	
511	The mitochondrial negative regulator MCJ is a therapeutic target for acetaminophen-induced liver injury. <b>2017</b> , 8, 2068	45
510	New tumor suppressor microRNAs target glypican-3 in human liver cancer. <b>2017</b> , 8, 41211-41226	18
509	The new era of nanotechnology, an alternative to change cancer treatment. <b>2017</b> , 11, 2871-2890	97
508	Gold Nanoparticle Approach to the Selective Delivery of Gene Silencing in Cancer-The Case for Combined Delivery?. <b>2017</b> , 8,	61
507	Plant MicroRNAs-Novels Players in Natural Medicine?. <b>2016</b> , 18,	45
506	microRNAs and Acute Myeloid Leukemia Chemoresistance: A Mechanistic Overview. <b>2017</b> , 7, 255	44
505	Describing Genomic and Epigenomic Traits Underpinning Emerging Fungal Pathogens. <b>2017</b> , 100, 73-140	12
504	Colorectal Cancer: From the Genetic Model to Posttranscriptional Regulation by Noncoding RNAs. <b>2017</b> , 2017, 7354260	27

503	2.26 MicroRNA as Biomaterial. <b>2017</b> , 558-570	1
502	RNAi therapy to the wall of arteries and veins: anatomical, physiologic, and pharmacological considerations. <b>2017</b> , 15, 164	10
501	Off-target possibility of efficient siRNA using String matching. <b>2017</b> ,	
500	Enhancing the Therapeutic Delivery of Oligonucleotides by Chemical Modification and Nanoparticle Encapsulation. <b>2017</b> , 22,	22
499	MicroRNA 603 acts as a tumor suppressor and inhibits triple-negative breast cancer tumorigenesis by targeting elongation factor 2 kinase. <b>2017</b> , 8, 11641-11658	59
498	Follicle-stimulating hormone peptide-conjugated nanoparticles for targeted shRNA delivery lead to effective growth-inhibiting and antitumor activity against ovarian cancer. <b>2018</b> , 25, 576-584	12
497	Targeted delivery of miRNA-204-5p by PEGylated polymer nanoparticles for colon cancer therapy. <b>2018</b> , 13, 769-785	24
496	Non-viral based miR delivery and recent developments. <b>2018</b> , 128, 82-90	41
495	Supramolecular Complex of Methyl-β-cyclodextrin with Adamantane-Grafted Hyaluronic Acid as a Novel Antitumor Agent. <b>2018</b> , 66, 277-285	7
494	Combining Optogenetics with Artificial microRNAs to Characterize the Effects of Gene Knockdown on Presynaptic Function within Intact Neuronal Circuits. <b>2018</b> ,	3
493	miR-223-3p Inhibits Human Osteosarcoma Metastasis and Progression by Directly Targeting CDH6. <b>2018</b> , 26, 1299-1312	59
492	Construction of COX-2 short hairpin RNA expression vector and its inhibitory effect on hepatic fibrosis. <b>2018</b> , 32, 653-662	1
491	C2'-F Stereoconfiguration As a Puckering Switch for Base Stacking at the Dinucleotide Level. <b>2018</b> , 83, 2473-2478	2
490	Potential Molecular Targets in the Treatment of Lung Cancer Using siRNA Technology. <b>2018</b> , 36, 37-58	12
489	Delineation of the Exact Transcription Termination Signal for Type 3 Polymerase III. <i>Molecular Therapy - Nucleic Acids</i> , <b>2018</b> , 10, 36-44	10.7 37
488	Lipid-polymer hybrid nanocarriers for delivering cancer therapeutics. <b>2018</b> , 271, 60-73	56
487	Fundamentals of siRNA and miRNA therapeutics and a review of targeted nanoparticle delivery systems in breast cancer. <b>2018</b> , 10, 69-86	107
486	Target-enrichment sequencing for detailed characterization of small RNAs. <b>2018</b> , 13, 768-786	8

485	Molecular mechanism of diabetic cardiomyopathy and modulation of microRNA function by synthetic oligonucleotides. <b>2018</b> , 17, 43		35
484	Non-coding RNAs in cardiovascular diseases: diagnostic and therapeutic perspectives. <b>2018</b> , 39, 2704-2716		168
483	MicroRNAs: New Therapeutic Targets for Familial Hypercholesterolemia?. <b>2018</b> , 54, 224-233		21
482	Novel targets for sensitizing breast cancer cells to TRAIL-induced apoptosis with siRNA delivery. <b>2018</b> , 142, 597-606		21
481	Gankyrin: a novel promising therapeutic target for hepatocellular carcinoma. <b>2018</b> , 46, 1301-1313		16
480	The Effects of Biological Fluids on Colloidal Stability and siRNA Delivery of a pH-Responsive Micellar Nanoparticle Delivery System. <b>2018</b> , 12, 187-197		37
479	Inhibition of microRNA-210 suppresses pro-inflammatory response and reduces acute brain injury of ischemic stroke in mice. <b>2018</b> , 300, 41-50		62
478	Anti-viral RNAi nanoparticles protect shrimp against white spot disease. <b>2018</b> , 3, 38-48		12
477	RNA purification from Escherichia coli cells using boronated nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 162, 146-153	6	12
476	Exosome-based small RNA delivery: Progress and prospects. <b>2018</b> , 13, 1-11		47
475	Formulation of RNA interference-based drugs for pulmonary delivery: challenges and opportunities. <b>2018</b> , 9, 731-749		11
474	Quantification of Loading and Laser-Assisted Release of RNA from Single Gold Nanoparticles. <b>2018</b> , 34, 14891-14898		9
473	Pseudogenes as Functionally Significant Elements of the Genome. <b>2018</b> , 83, 1332-1349		29
472	Potential application of tumor suppressor microRNAs for targeted therapy in head and neck cancer: A mini-review. <b>2018</b> , 87, 165-169		8
471	miRNAs as Modulators of EGFR Therapy in Colorectal Cancer. <b>2018</b> , 1110, 133-147		2
470	Dihomo- $\alpha$ -linolenic acid inhibits xenograft tumor growth in mice bearing shRNA-transfected HCA-7 cells targeting delta-5-desaturase. <b>2018</b> , 18, 1268		7
469	Gold nanorods/siRNA complex administration for knockdown of PARP-1: a potential treatment for perinatal asphyxia. <b>2018</b> , 13, 6839-6854		8
468	Single-cell electroporation: current trends, applications and future prospects. <b>2018</b> , 28, 123002		31



467	Emerging microRNAs in cancer diagnosis, progression, and immune surveillance. <b>2018</b> , 438, 126-132	64
466	Acylation of the S4-PV cell-penetrating peptide as a means of enhancing its capacity to mediate nucleic acid delivery: Relevance of peptide/lipid interactions. <b>2018</b> , 1860, 2619-2634	6
465	The potential of PTPN22 as a therapeutic target for rheumatoid arthritis. <b>2018</b> , 22, 879-891	9
464	Cyclic peptide-based nanostructures as efficient siRNA carriers. <b>2018</b> , 46, S763-S773	11
463	Antisense RNA: the new favorite in genetic research. <b>2018</b> , 19, 739-749	21
462	In vitro analysis of microRNA-26a in chronic lymphocytic leukemia cells. <b>2018</b> , 42, 3364-3370	1
461	Nucleic Acid-Based Therapeutics for Pulmonary Diseases. <b>2018</b> , 19, 3670-3680	17
460	Solid-Phase Synthesis of Phosphorothioate Oligonucleotides Using Sulfurization Byproducts for in Situ Capping. <b>2018</b> , 83, 11577-11585	6
459	Dendrimers Show Promise for siRNA and microRNA Therapeutics. <b>2018</b> , 10,	57
458	Synthesis of 4'-C-aminoalkyl-2'-O-methyl modified RNA and their biological properties. <b>2018</b> , 26, 3521-3534	21
457	Reagent Validation to Facilitate Experimental Reproducibility. <b>2018</b> , 81, e40	4
456	Microneedles for Gene Therapy: Overcoming Extracellular and Intracellular Barriers. <b>2018</b> , 129-175	
455	Current Transport Systems and Clinical Applications for Small Interfering RNA (siRNA) Drugs. <b>2018</b> , 22, 551-569	17
454	A mixed antagonistic/synergistic miRNA repression model enables accurate predictions of multi-input miRNA sensor activity. <b>2018</b> , 9, 2430	22
453	Targeted delivery of anti-miR-155 by functionalized mesoporous silica nanoparticles for colorectal cancer therapy. <b>2018</b> , 13, 1241-1256	68
452	PEI-Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Enable Efficient Delivery of Therapeutic siRNA Targeting REST into Glioblastoma Cells. <b>2018</b> , 19,	30
451	Advancements in Regenerative Strategies Through the Continuum of Burn Care. <b>2018</b> , 9, 672	38
450	RNA interference: new mechanistic and biochemical insights with application in oral cancer therapy. <b>2018</b> , 13, 3397-3409	6

449	An Emerging Role for Circular RNAs in Osteoarthritis. <b>2018</b> , 59, 349-355	36
448	Small RNA-mediated prevention, diagnosis and therapies of cancer. <b>2018</b> , 341-436	
447	Analysis of microRNAs Expression Profiles in Madin-Darby Bovine Kidney Cells Infected With Caprine Parainfluenza Virus Type 3. <b>2018</b> , 8, 93	8
446	Lipid-Based Nanosystems for the Delivery of siRNA: Challenges and Trends. <b>2018</b> , 495-515	
445	Methods for Using Small Non-Coding RNAs to Improve Recombinant Protein Expression in Mammalian Cells. <b>2018</b> , 9,	7
444	MicroRNAs and type 2 diabetes mellitus: Molecular mechanisms and the effect of antidiabetic drug treatment. <b>2018</b> , 87, 48-55	45
443	Plant miRNAs and Phytomolecules As Anticancer Therapeutics. <b>2018</b> , 27-41	1
442	Non-Coding RNA in the Pathogenesis, Progression and Treatment of Hypertension. <b>2018</b> , 19,	30
441	Exosome-Mediated Small RNA Delivery: A Novel Therapeutic Approach for Inflammatory Lung Responses. <b>2018</b> , 26, 2119-2130	88
440	State of art and limitations in genetic engineering to induce stable chondrogenic phenotype. <b>2018</b> , 36, 1855-1869	13
439	To accelerate the Zika beat: Candidate design for RNA interference-based therapy. <b>2018</b> , 255, 133-140	9
438	Biologics and Cardiovascular Disease. <b>2018</b> , 72, 77-85	9
437	Clustered Regularly Interspaced Short Palindromic Repeats-Based Genome Surgery for the Treatment of Autosomal Dominant Retinitis Pigmentosa. <b>2018</b> , 125, 1421-1430	65
436	RNA Therapeutics in Cardiovascular Precision Medicine. <b>2018</b> , 9, 953	42
435	Optical Biosensing System for the Detection of Survivin mRNA in Colorectal Cancer Cells Using a Graphene Oxide Carrier-Bound Oligonucleotide Molecular Beacon. <b>2018</b> , 8,	41
434	A piRNA utilizes HILI and HIWI2 mediated pathway to down-regulate ferritin heavy chain 1 mRNA in human somatic cells. <b>2018</b> , 46, 10635-10648	21
433	Epigenetic Approaches to the Treatment of Dental Pulp Inflammation and Repair: Opportunities and Obstacles. <b>2018</b> , 9, 311	19
432	Intracellular miRNA or siRNA delivery and function. <b>2018</b> , 171, 20-25	7

431	miRNA-based strategy for modulation of influenza A virus infection. <b>2018</b> , 10, 829-844	42
430	Selective delivery of PLXDC1 small interfering RNA to endothelial cells for anti-angiogenesis tumor therapy using CD44-targeted chitosan nanoparticles for epithelial ovarian cancer. <b>2018</b> , 25, 1394-1402	36
429	RNA-based therapy for osteogenesis. <b>2019</b> , 569, 118594	15
428	Current trends in targeted therapy for drug-resistant infections. <b>2019</b> , 103, 8301-8314	8
427	Nanotechnology-based siRNA delivery strategies for metastatic colorectal cancer therapy. <b>2019</b> , 568, 118530	15
426	Human gene therapy approaches for the treatment of Parkinson's disease: An overview of current and completed clinical trials. <b>2019</b> , 66, 16-24	26
425	Emerging New Therapies for Viral Hepatitis. <b>2019</b> , 211-227	
424	Biodegradable polymers in gene-silencing technology. <b>2019</b> , 30, 2647-2655	15
423	Noncoding RNAs in Parasite-Vector-Host Interactions. <b>2019</b> , 35, 715-724	13
422	Applications of RNA interference in the treatment of arthritis. <b>2019</b> , 214, 1-16	19
421	The potential of siRNA based drug delivery in respiratory disorders: Recent advances and progress. <b>2019</b> , 80, 714-730	40
420	Local Immunomodulation Using an Adhesive Hydrogel Loaded with miRNA-Laden Nanoparticles Promotes Wound Healing. <b>2019</b> , 15, e1902232	104
419	Revisiting the Role of Exosomes in Colorectal Cancer:. <b>2019</b> , 9, 521	24
418	Rekindling RNAi Therapy: Materials Design Requirements for In Vivo siRNA Delivery. <b>2019</b> , 31, e1903637	104
417	The Regulatory Role of MicroRNAs in Breast Cancer. <b>2019</b> , 20,	110
416	Calcium Phosphate Nanoparticles for Therapeutic Applications in Bone Regeneration. <b>2019</b> , 9,	53
415	Enzymatically Synthesized DNA Polymer as Co-carrier for Enhanced RNA Interference.. <b>2019</b> , 2, 5204-5215	6
414	Current strategies for different paclitaxel-loaded Nano-delivery Systems towards therapeutic applications for ovarian carcinoma: A review article. <b>2019</b> , 311-312, 125-137	42

413	Relationship between structure and molecular interactions in monolayers of specially designed aminolipids. <b>2019</b> , 1, 3529-3536	3
412	Nucleic acid-based theranostics in type 1 diabetes. <b>2019</b> , 214, 50-61	3
411	Silk Fibroin as a Functional Biomaterial for Drug and Gene Delivery. <b>2019</b> , 11,	61
410	In vivo miRNA delivery in whitefish: Synthetic MiR92b-3p uptake and the efficacy of gene expression silencing. <b>2019</b> , 244, 52-63	1
409	The role of microRNAs in newborn brain development and hypoxic ischaemic encephalopathy. <b>2019</b> , 149, 55-65	17
408	Multifunctional Nanobiohybrid Material Composed of Ag@BiSe/RNA Three-Way Junction/miRNA/Retinoic Acid for Neuroblastoma Differentiation. <b>2019</b> , 11, 8779-8788	13
407	Fundamentals of Polymers Science Applied in Pharmaceutical Product Development. <b>2019</b> , 85-112	2
406	Novel Therapies for Prevention and Early Treatment of Cardiomyopathies. <b>2019</b> , 124, 1536-1550	22
405	2'-C,4'-C-Ethyleneoxy-Bridged 2'-Deoxyribonucleic Acids (EoDNAs) with Thymine Nucleobases: Synthesis, Duplex-Forming Ability, and Enzymatic Stability. <b>2019</b> , 1973, 59-89	
404	Promising Directions in Atherosclerosis Treatment Based on Epigenetic Regulation Using MicroRNAs and Long Noncoding RNAs. <b>2019</b> , 9,	29
403	RNA delivery biomaterials for the treatment of genetic and rare diseases. <b>2019</b> , 217, 119291	23
402	Gene therapy for hearing loss. <b>2019</b> , 28, R65-R79	39
401	Genetic engineering approaches to improve posttranslational modification of biopharmaceuticals in different production platforms. <b>2019</b> , 116, 2778-2796	20
400	Challenges of gene delivery to the central nervous system and the growing use of biomaterial vectors. <b>2019</b> , 150, 216-230	14
399	Oligonucleotide therapy: An emerging focus area for drug delivery in chronic inflammatory respiratory diseases. <b>2019</b> , 308, 206-215	52
398	The Application of microRNAs in Biomaterial Scaffold-Based Therapies for Bone Tissue Engineering. <b>2019</b> , 14, e1900084	19
397	Emerging and innovative approaches for wound healing and skin regeneration: Current status and advances. <b>2019</b> , 216, 119267	172
396	Emerging blood-brain-barrier-crossing nanotechnology for brain cancer theranostics. <b>2019</b> , 48, 2967-3014	196

395	Delivery of therapeutic miRNA using polymer-based formulation. <b>2019</b> , 9, 1043-1056	26
394	Diatom Biogenic Silica as a Felicitous Platform for Biochemical Engineering: Expanding Frontiers.. <b>2019</b> , 2, 2295-2316	20
393	Antibody-drug therapeutic conjugates: Potential of antibody-siRNAs in cancer therapy. <b>2019</b> , 234, 16724-16738	11
392	Disease Modeling and Therapeutic Strategies in CMT2A: State of the Art. <b>2019</b> , 56, 6460-6471	11
391	Scaffold-mediated sequential drug/gene delivery to promote nerve regeneration and remyelination following traumatic nerve injuries. <b>2019</b> , 149-150, 19-48	20
390	Genomic Tools for Environmental Epigenetics and Implications for Public Health. <b>2019</b> , 18, 27-33	5
389	Antisense Oligonucleotides for the Treatment of Inner Ear Dysfunction. <b>2019</b> , 16, 348-359	10
388	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. <b>2019</b> , 7, 8055-8069	59
387	Gene Silencing Agents in Breast Cancer. <b>2019</b> ,	0
386	Pharmacological Interventions to Attenuate Alzheimer's Disease Progression: The Story So Far. <b>2019</b> , 16, 261-277	19
385	miRNAs in gastrointestinal diseases: can we effectively deliver RNA-based therapeutics orally?. <b>2019</b> , 14, 2873-2889	9
384	Therapeutic Implication of miRNA in Human Disease. <b>2019</b> ,	6
383	Liver Cancer: Current and Future Trends Using Biomaterials. <b>2019</b> , 11,	18
382	Reduced expression of miR-146a in human bronchial epithelial cells alters neutrophil migration. <b>2019</b> , 9, 62	13
381	Gene Therapy. <b>2020</b> , 171, 321-368	9
380	Editorial focus: understanding off-target effects as the key to successful RNAi therapy. <b>2019</b> , 24, 69	39
379	Long noncoding RNA MEG3 inhibits breast cancer growth via upregulating endoplasmic reticulum stress and activating NF- $\kappa$ B and p53. <b>2019</b> , 120, 6789-6797	44
378	Pancreatic Cancer Gene Therapy Delivered by Nanoparticles. <b>2019</b> , 24, 151-160	13

- 377 The Role of Noncoding RNAs in Gene Regulation. **2019**, 217-235
- 376 The molecular hallmarks of epigenetic effects mediated by antiepileptic drugs. **2019**, 149, 53-65 10
- 375 Genetics, Mechanisms, and Therapeutic Progress in Polyglutamine Spinocerebellar Ataxias. **2019**, 16, 263-286 49
- 374 Nanoparticles Mediated Gene Knockout Through miRNA Replacement: Recent Progress and Challenges. **2019**, 469-497 5
- 373 Overexpression of miR-301a-3p promotes colorectal cancer cell proliferation and metastasis by targeting deleted in liver cancer-1 and runt-related transcription factor 3. **2019**, 120, 6078-6089 13
- 372 Dihomo- $\beta$ -linolenic acid inhibits growth of xenograft tumors in mice bearing human pancreatic cancer cells (BxPC-3) transfected with delta-5-desaturase shRNA. **2019**, 20, 236-246 9
- 371 Promise of chemokine network-targeted nanoparticles in combination nucleic acid therapies of metastatic cancer. **2019**, 11, e1528 5
- 370 siRNA therapeutics: a clinical reality. **2020**, 63, 485-500 93
- 369 Theranostic small interfering RNA nanoparticles in cancer precision nanomedicine. **2020**, 12, e1595 9
- 368 miR-4510 blocks hepatocellular carcinoma development through RAF1 targeting and RAS/RAF/MEK/ERK signalling inactivation. **2020**, 40, 240-251 14
- 367 Therapeutic Potential of LNP-Mediated Delivery of miR-634 for Cancer Therapy. *Molecular Therapy - Nucleic Acids*, **2020**, 19, 330-338 10.7 25
- 366 Polymer nanocarriers for MicroRNA delivery. **2020**, 137, 48651 16
- 365 The Evolving Druggability and Developability Space: Chemically Modified New Modalities and Emerging Small Molecules. **2020**, 22, 21 18
- 364 Therapeutic Potential of the miRNA-ATM Axis in the Management of Tumor Radioresistance. **2020**, 80, 139-150 13
- 363 Extracellular Vesicles and Epigenetic Modifications Are Hallmarks of Melanoma Progression. **2019**, 21, 22
- 362 microRNA-181 serves as a dual-role regulator in the development of human cancers. **2020**, 152, 432-454 24
- 361 Nucleic acid-based therapy for coronavirus disease 2019. **2020**, 6, e05007 17
- 360 Inhibition of Chk1 by miR-320c increases oxaliplatin responsiveness in triple-negative breast cancer. **2020**, 9, 91 7

359	Emerging Prospects of Exosomes for Cancer Treatment: From Conventional Therapy to Immunotherapy. <b>2020</b> , 32, e2002440	60
358	Engineering cell fate: Applying synthetic biology to cellular reprogramming. <b>2020</b> , 24, 18-31	4
357	mRNA structural dynamics shape Argonaute-target interactions. <b>2020</b> , 27, 790-801	16
356	Regulatory RNAs: A Universal Language for Inter-Domain Communication. <b>2020</b> , 21,	11
355	Micro RNAs Promoting Growth and Metastasis in Preclinical Models of Subcutaneous Melanoma. <b>2020</b> , 17, 651-667	1
354	Gene therapy and immunotherapy as promising strategies to combat Huntington's disease-associated neurodegeneration: emphasis on recent updates and future perspectives. <b>2020</b> , 20, 1123-1141	0
353	Paternal epigenetics: Mammalian sperm provide much more than DNA at fertilization. <b>2020</b> , 518, 110964	16
352	Luciferase reporter assay for small-molecule inhibitors of MIR92b-3p function: Screening cyanopeptolins produced by Nostoc from the Baltic Sea. <b>2020</b> , 68, 104951	4
351	Non-Coding RNAs and Nucleosome Remodeling Complexes: An Intricate Regulatory Relationship. <b>2020</b> , 9,	5
350	The Effects of Single Nucleotide Polymorphisms in Cancer RNAi Therapies. <b>2020</b> , 12,	2
349	PCSK9: A Potential Therapeutic Target for Sepsis. <b>2020</b> , 2020, 2687692	3
348	Presence of Endogenous Viral Elements Negatively Correlates with Feline Leukemia Virus Susceptibility in Puma and Domestic Cat Cells. <b>2020</b> , 94,	4
347	Effect of Confinement in Nanopores on RNA Interactions with Functionalized Mesoporous Silica Nanoparticles. <b>2020</b> , 124, 8549-8561	6
346	MicroRNAs as potential targets for improving rice yield via plant architecture modulation: Recent studies and future perspectives. <b>2020</b> , 45, 1	6
345	Short Hairpin RNAs for Strand-Specific Small Interfering RNA Production. <b>2020</b> , 8, 940	4
344	microRNAs and Corresponding Targets Involved in Metastasis of Colorectal Cancer in Preclinical Models. <b>2020</b> , 17, 453-468	1
343	Exosomal microRNAs derived from mesenchymal stem cells: cell-to-cell messages. <b>2020</b> , 18, 149	41
342	RNA Interference Nanotherapeutics for Treatment of Glioblastoma Multiforme. <b>2020</b> , 17, 4040-4066	8

341	Click-Free Synthesis of a Multivalent Tricyclic Peptide as a Molecular Transporter. <b>2020</b> , 12,	3
340	MicroRNAs in Chronic Kidney Disease: Four Candidates for Clinical Application. <b>2020</b> , 21,	16
339	Location specific annealing of miR-122 and other small RNAs defines an Hepatitis C Virus 5' UTR regulatory element with distinct impacts on virus translation and genome stability. <b>2020</b> , 48, 9235-9249	5
338	Impact of metallothionein-knockdown on cisplatin resistance in malignant pleural mesothelioma. <b>2020</b> , 10, 18677	3
337	The Role of - and -Acting RNA Regulatory Elements in Leukemia. <b>2020</b> , 12,	5
336	Strategies for Targeting Gene Therapy in Cancer Cells With Tumor-Specific Promoters. <b>2020</b> , 10, 605380	21
335	Safety Considerations for Humans and Other Vertebrates Regarding Agricultural Uses of Externally Applied RNA Molecules. <b>2020</b> , 11, 407	22
334	MicroRNA Nanotherapeutics for Lung Targeting. Insights into Pulmonary Hypertension. <b>2020</b> , 21,	7
333	Delivery of RNAi-Based Therapeutics for Bone Regeneration. <b>2020</b> , 18, 312-324	7
332	Dexmedetomidine attenuates cisplatin-induced cognitive impairment by modulating miR-429-3p expression in rats. <b>2020</b> , 10, 244	6
331	Role of Micro-RNA for Pain After Surgery: Narrative Review of Animal and Human Studies. <b>2020</b> , 130, 1638-1652	5
330	Metal organic framework coated MnO nanosheets delivering doxorubicin and self-activated DNzyme for chemo-gene combinatorial treatment of cancer. <b>2020</b> , 585, 119513	16
329	Alzheimer's disease: the potential of epigenetic treatments and current clinical candidates. <b>2020</b> , 10, 543-558	6
328	Systems Virology and Human Cytomegalovirus: Using High Throughput Approaches to Identify Novel Host-Virus Interactions During Lytic Infection. <b>2020</b> , 10, 280	4
327	Food safety assessment of crops engineered with RNA interference and other methods to modulate expression of endogenous and plant pest genes. <b>2020</b> , 76, 3333-3339	6
326	Lipid Polymer Hybrid Nanoparticles: A Novel Approach for Drug Delivery. <b>2020</b> ,	1
325	Fetal gene therapy and pharmacotherapy to treat congenital hearing loss and vestibular dysfunction. <b>2020</b> , 394, 107931	8
324	Nanoparticle depots for controlled and sustained gene delivery. <b>2020</b> , 322, 622-631	9



323	Gene Therapy in Cancer Treatment: Why Go Nano?. <b>2020</b> , 12,	52
322	Recent Advances in Smart Biomaterials for the Detection and Treatment of Autoimmune Diseases. <b>2020</b> , 30, 1909556	7
321	AGO2 and its partners: a silencing complex, a chromatin modulator, and new features. <b>2020</b> , 55, 33-53	16
320	Dissecting the Role of Subtypes of Gastrointestinal Vagal Afferents. <b>2020</b> , 11, 643	20
319	Identification of MicroRNAs With Efficacy in Multiple Myeloma-related Xenograft Models. <b>2020</b> , 17, 321-334	2
318	Transcriptomic Analysis of Extracellular RNA Governed by the Endocytic Adaptor Protein Cin1 of. <b>2020</b> , 10, 256	7
317	The roles of miRNAs' clinical efficiencies in the colorectal cancer pathobiology: A review article. <b>2020</b> , 28, 273-285	1
316	RNA-based scaffolds for bone regeneration: application and mechanisms of mRNA, miRNA and siRNA. <b>2020</b> , 10, 3190-3205	42
315	Small interfering RNA from the lab discovery to patients' recovery. <b>2020</b> , 321, 616-628	23
314	MicroRNA-mediated regulation of Nrf2 signaling pathway: Implications in disease therapy and protection against oxidative stress. <b>2020</b> , 244, 117329	28
313	Programing Assembling/Releasing Multifunctional miRNA Nanomedicine to Treat Prostate Cancer. <b>2020</b> , 12, 9032-9040	10
312	Calcium Phosphate Nanoparticles-Based Systems for RNAi Delivery: Applications in Bone Tissue Regeneration. <b>2020</b> , 10,	22
311	Therapeutic Targeting of Hepatic Macrophages. <b>2020</b> , 1, 113-120	
310	High-throughput synthetic rescue for exhaustive characterization of suppressor mutations in human genes. <b>2020</b> , 77, 4209-4222	1
309	The Delivery of RNA-Interference Therapies Based on Engineered Hydrogels for Bone Tissue Regeneration. <b>2020</b> , 8, 445	9
308	Enhancing chemosensitivity of wild-type and drug-resistant MDA-MB-231 triple-negative breast cancer cell line to doxorubicin by silencing of STAT 3, Notch-1, and Eatenin genes. <b>2020</b> , 27, 989-998	7
307	Inhalation delivery technology for genome-editing of respiratory diseases. <b>2021</b> , 168, 217-228	14
306	miR-942-5p promotes the proliferation and invasion of human melanoma cells by targeting DKK3. <b>2021</b> , 41, 180-187	10

305	Recent developments in targeting genes and pathways by RNAi-based approaches in colorectal cancer. <b>2021</b> , 41, 395-434	4
304	Improving Antibody Production in Stably Transfected CHO Cells by CRISPR-Cas9-Mediated Inactivation of Genes Identified in a Large-Scale Screen with Chinese Hamster-Specific siRNAs. <b>2021</b> , 16, e2000267	2
303	Inorganic Nanomaterial-Mediated Gene Therapy in Combination with Other Antitumor Treatment Modalities. <b>2021</b> , 31, 2007096	9
302	Revisiting gene delivery to the brain: silencing and editing. <b>2021</b> , 9, 1065-1087	5
301	The role of microRNAs in bone development. <b>2021</b> , 143, 115760	12
300	A bird's eye view of the advanced approaches and strategies for overshadowing triple negative breast cancer. <b>2021</b> , 330, 72-100	5
299	Pharmacological targets and emerging treatments for respiratory syncytial virus bronchiolitis. <b>2021</b> , 220, 107712	3
298	Iron Oxide-Based Polymeric Magnetic Nanoparticles for Drug and Gene Delivery: In Vitro and In Vivo Applications in Cancer. <b>2021</b> , 1271-1292	2
297	Regulation of NKG2D by RKIP: Implications on NK-mediated cytotoxicity and cytokine production. <b>2021</b> , 233-265	0
296	Recent development of gene therapy for pancreatic cancer using non-viral nanovectors. <b>2021</b> , 9, 6673-6690	6
295	RNA Therapy in Bone Diseases. <b>2021</b> , 159-184	
294	Gene therapy with caspase-3 small interfering RNA-nanoparticles is neuroprotective after optic nerve damage. <b>2021</b> , 16, 2534-2541	0
293	Therapeutic Implications of TGF $\beta$ in Cancer Treatment: A Systematic Review. <b>2021</b> , 13,	2
292	Recent advances in co-delivery nanosystems for synergistic action in cancer treatment. <b>2021</b> , 9, 1208-1237	11
291	DNAzyme-adsorbed polydopamine@MnO core-shell nanocomposites for enhanced photothermal therapy the self-activated suppression of heat shock protein 70. <b>2021</b> , 13, 5125-5135	11
290	Cross-kingdom regulation by dietary plant miRNAs: an evidence-based review with recent updates. <b>2021</b> , 12, 9549-9562	1
289	Cell-Penetrating Peptides Delivering siRNAs: An Overview. <b>2021</b> , 2282, 329-352	6
288	CircRNA hsa_circ_0005909 Promotes Cell Proliferation of Osteosarcoma Cells by Targeting miR-338-3p/HMGA1 Axis. <b>2021</b> , 13, 795-803	6

287	Translation of gene therapies. <b>2021</b> , 683-697		
286	Channels to consciousness: a possible role of gap junctions in consciousness. <b>2020</b> ,		2
285	Quaternized Starch-Based Composite Nanoparticles for siRNA Delivery to Tumors. <b>2021</b> , 4, 2218-2229		2
284	MicroRNA-17-3p suppresses NF- $\kappa$ B-mediated endothelial inflammation by targeting NIK and IKK $\alpha$ binding protein. <b>2021</b> , 42, 2046-2057		3
283	Oligonucleotide-Based Approaches to Inhibit Dengue Virus Replication. <b>2021</b> , 26,		2
282	piRNAs as Modulators of Disease Pathogenesis. <b>2021</b> , 22,		8
281	Small interfering RNA: a tailored approach to explore the therapeutic potential in COVID-19. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 23, 640-642	10.7	1
280	Facioscapulohumeral muscular dystrophy: genetics, gene activation and downstream signalling with regard to recent therapeutic approaches: an update. <b>2021</b> , 16, 129		7
279	Nanotechnology to the Rescue: Treatment Perspective for the Immune Dysregulation Observed in COVID-19. <b>2021</b> , 3,		1
278	Recent Advances in Oligonucleotide Therapeutics in Oncology. <b>2021</b> , 22,		25
277	The Limitless Future of RNA Therapeutics. <b>2021</b> , 9, 628137		67
276	Gene therapy strategies for idiopathic pulmonary fibrosis: recent advances, current challenges, and future directions. <b>2021</b> , 20, 483-496		4
275	Oligonucleotide Delivery across the Caco-2 Monolayer: The Design and Evaluation of Self-Emulsifying Drug Delivery Systems (SEDDS). <b>2021</b> , 13,		4
274	Non-Coding RNAs in Cancer Diagnosis and Therapy: Focus on Lung Cancer. <b>2021</b> , 13,		6
273	RNA therapeutics for cardiovascular disease. <b>2021</b> , 36, 256-263		2
272	The Emerging Role of Epigenetic Mechanisms in the Causation of Aberrant MMP Activity during Human Pathologies and the Use of Medicinal Drugs. <b>2021</b> , 11,		3
271	Modeling Neoplastic Growth in Renal Cell Carcinoma and Polycystic Kidney Disease. <b>2021</b> , 22,		3
270	Cytocompatibility, membrane disruption, and siRNA delivery using environmentally responsive cationic nanogels. <b>2021</b> , 332, 608-619		4

269	MicroRNA-29c Acting on FOS Plays a Significant Role in Nonalcoholic Steatohepatitis Through the Interleukin-17 Signaling Pathway. <b>2021</b> , 12, 597449	1
268	siRNAs and viruses: The good, the bad and the way forward. <b>2021</b> ,	1
267	Therapeutic Applications. <b>2021</b> , 215-234	
266	Next-generation sequencing for the diagnosis of hepatitis B: current status and future prospects. <b>2021</b> , 21, 381-396	3
265	Transfection types, methods and strategies: a technical review. <b>2021</b> , 9, e11165	13
264	Glycogen Synthase Kinase 3 Modulates the Inflammatory Response Activated by Bacteria, Viruses, and Parasites. <b>2021</b> , 12, 675751	4
263	MicroRNAs and Oxidative Stress: An Intriguing Crosstalk to Be Exploited in the Management of Type 2 Diabetes. <b>2021</b> , 10,	4
262	Biomedical and Tissue Engineering Strategies to Control Foreign Body Reaction to Invasive Neural Electrodes. <b>2021</b> , 9, 659033	5
261	Therapeutic Potential of microRNA Against Th2-associated Immune Disorders. <b>2021</b> , 21, 753-766	3
260	miRNA-based approaches for sustainable control of diseases.. <b>2021</b> , 16,	
259	Advances in siRNA delivery strategies for the treatment of MDR cancer. <b>2021</b> , 274, 119337	4
258	Engineering Gene Therapy: Advances and Barriers. <b>2021</b> , 4, 2100040	2
257	The landscape of microRNAs in plant viral infections. <b>2021</b> , 26, 100293	0
256	Wound Healing: From Passive to Smart Dressings. <b>2021</b> , 10, e2100477	58
255	Emerging therapeutics in Huntington's disease. <b>2021</b> , 26, 295-302	2
254	Small Noncoding RNA in Regulation of Differentiation of Retinal Pigment Epithelium. <b>2021</b> , 52, 268-275	0
253	The reversal of chemotherapy-induced multidrug resistance by nanomedicine for cancer therapy. <b>2021</b> , 335, 1-20	18
252	The Nanosystems Involved in Treating Lung Cancer. <b>2021</b> , 11,	7

251	Metabolites of intestinal microflora upregulate microRNA-200c-3p expression level to suppress airway epithelial inflammation via the IL6ST/JNK/STAT3 signaling pathway. <b>2021</b> , 22, 999	
250	Avoiding High-Pressure Problem for Modified RNA-attached Polystyrene Support by Pre-Swelling Using Toluene in the Oligonucleotide Synthesis. <b>2021</b> , 42, 1296	
249	A synthetic circuit for buffering gene dosage variation between individual mammalian cells. <b>2021</b> , 12, 4132	3
248	The growth of siRNA-based therapeutics: Updated clinical studies. <b>2021</b> , 189, 114432	60
247	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. <b>2021</b> , 5, 2100402	17
246	Rational Design of Immunomodulatory Hydrogels for Chronic Wound Healing. <b>2021</b> , 33, e2100176	50
245	miRNA-Based Potential Biomarkers and New Molecular Insights in Ulcerative Colitis. <b>2021</b> , 12, 707776	5
244	miRNAs; a novel strategy for the treatment of COVID-19. <b>2021</b> , 45, 2045-2053	9
243	The potential role of miRNA therapies in spinal muscle atrophy. <b>2021</b> , 427, 117485	4
242	Protective effects of dexmedetomidine on cerebral ischemia/reperfusion injury via the microRNA-214/ROCK1/NF- $\kappa$ B axis. <b>2021</b> , 21, 203	2
241	Pulmonary delivery of siRNA against acute lung injury/acute respiratory distress syndrome. <b>2021</b> , 12, 600-600	12
240	siRNA: Mechanism of action, challenges, and therapeutic approaches. <b>2021</b> , 905, 174178	23
239	Current advances in overcoming obstacles of CRISPR/Cas9 off-target genome editing. <b>2021</b> , 134, 77-86	1
238	Analytical techniques currently used in the pharmaceutical industry for the quality control of RNA-based therapeutics and ongoing developments. <b>2021</b> , 1651, 462283	5
237	Capturing the RNA castle: Exploiting MicroRNA inhibition for wound healing. <b>2021</b> ,	3
236	Dynamics and Traffic for Transfecting Exogenous MicroRNA as Studied by Live-Cell Microscopy. <b>2021</b> , 17, 1647-1653	
235	The infinite possibilities of RNA therapeutics. <b>2021</b> ,	3
234	Inulin and Its Application in Drug Delivery. <b>2021</b> , 14,	11

233	Endogenous Feline Leukemia Virus (FeLV) siRNA Transcription May Interfere with Exogenous FeLV Infection. <b>2021</b> , 95, e0007021	0
232	Biomaterial-based delivery of nucleic acids for tissue regeneration. <b>2021</b> , 176, 113885	9
231	Microfluidics for Development of Lipid Nanoparticles: Paving the Way for Nucleic Acids to the Clinic. <b>2021</b> ,	9
230	Rational design for controlled release of Dicer-substrate siRNA harbored in phi29 pRNA-based nanoparticles. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 25, 524-535	10.7 1
229	Acquired Glucocorticoid Resistance Due to Homologous Glucocorticoid Receptor Downregulation: A Modern Look at an Age-Old Problem. <b>2021</b> , 10,	5
228	New RNA-Based Breakthroughs in Alzheimer's Disease Diagnosis and Therapeutics. <b>2021</b> , 13,	2
227	The development and improvement of ribonucleic acid therapy strategies. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 26, 997-1013	10.7 0
226	siRNA and Ovarian Cancer. <b>2021</b> , 19, 1	0
225	Regenerative Engineering Approaches to Scar-Free Skin Regeneration. 1	0
224	In vivo evaluation of biodistribution and toxicity of pH-responsive strontium nanoparticles for gene delivery. 1	2
223	Mineralized polyplexes for gene delivery: Improvement of transfection efficiency as a consequence of calcium incubation and not mineralization. <b>2021</b> , 129, 112419	0
222	A computational approach on studying the regulation of TGF- $\beta$ -stimulated Runx2 expression by MicroRNAs in human breast cancer cells. <b>2021</b> , 137, 104823	3
221	Insights into oxidative stress in bone tissue and novel challenges for biomaterials. <b>2021</b> , 130, 112433	5
220	The neurobiology of non-coding RNAs and Alzheimer's disease pathogenesis: Pathways, mechanisms and translational opportunities. <b>2021</b> , 71, 101425	11
219	Looking into the possibilities of cure of the type 2 diabetes mellitus by nanoparticle-based RNAi and CRISPR-Cas9 system: A review. <b>2021</b> , 66, 102830	
218	Molecular and Genetic Therapies. <b>2022</b> , 225-246	
217	Delivery strategies of RNA therapeutics for ex vivo and in vivo B-cell malignancies. <b>2022</b> , 117-146	
216	Regulatory Role of Micro-RNAs in Plants Under Challenging Environmental Conditions with Special Focus on Drought and Salinity. <b>2021</b> , 121-140	

215	Chemical strategies for strand selection in short-interfering RNAs.. <b>2021</b> , 11, 2415-2426	6
214	microRNAs Promoting Growth of Gastric Cancer Xenografts and Correlation to Clinical Prognosis. <b>2021</b> , 18, 1-15	5
213	The application of antisense technology for crop improvement: A review. <b>2021</b> , 7, 1910157	0
212	Endogenous feline leukemia virus siRNA transcription may interfere with exogenous FeLV infection.	
211	siRNA Therapeutics against Respiratory Viral Infections-What Have We Learned for Potential COVID-19 Therapies?. <b>2021</b> , 10, e2001650	17
210	Delivery of Functional Small RNAs via Extracellular Vesicles In Vitro and In Vivo. <b>2020</b> , 2115, 107-117	9
209	Chitosan Nanoparticles for miRNA Delivery. <b>2017</b> , 1632, 219-230	7
208	Computational Prediction of the Immunomodulatory Potential of RNA Sequences. <b>2017</b> , 1632, 75-90	9
207	Prospective Advances in Non-coding RNAs Investigation. <b>2020</b> , 1229, 385-426	1
206	The current perspectives of nanoparticles in cellular and organ-specific drug targeting in biological system. <b>2018</b> , 105-154	1
205	Therapeutic potential of miR-21 regulation by human peripheral blood derived-small extracellular vesicles in myocardial infarction. <b>2020</b> , 134, 985-999	3
204	Presence of endogenous viral elements negatively correlates with FeLV susceptibility in puma and domestic cat cells.	0
203	Clinical approach to liver disease in adults with AATD. <b>2019</b> , 114-126	1
202	Network science for the identification of novel therapeutic targets in epilepsy. <b>2016</b> , 5,	6
201	Identification of functional features of synthetic SINEUPs, antisense lncRNAs that specifically enhance protein translation. <b>2018</b> , 13, e0183229	16
200	MiR-199a/b-5p Inhibits Lymphangiogenesis by Targeting Discoidin Domain Receptor 1 in Corneal Injury. <b>2018</b> , 41, 93-102	6
199	Disease- and treatment-associated acquired glucocorticoid resistance. <b>2018</b> , 7, R328-R349	19
198	Activation of HERV-K Env protein is essential for tumorigenesis and metastasis of breast cancer cells. <b>2016</b> , 7, 84093-84117	64

197	1,25-Dihydroxyvitamin D inhibits the proliferation of rat mesangial cells induced by high glucose via DDIT4. <b>2018</b> , 9, 418-427	2
196	Therapeutic efficacy of liposomal Grb2 antisense oligodeoxynucleotide (L-Grb2) in preclinical models of ovarian and uterine cancer. <b>2020</b> , 11, 2819-2833	2
195	MicroRNAs in treatment-induced neuroendocrine differentiation in prostate cancer. <b>2020</b> , 3, 804-818	3
194	miR-21, Mediator, and Potential Therapeutic Target in the Cardiorenal Syndrome. <b>2020</b> , 11, 726	11
193	Current and Promising Antivirals Against Chikungunya Virus. <b>2020</b> , 8, 618624	9
192	Effects of miR-219/miR-338 on microglia and astrocyte behaviors and astrocyte-oligodendrocyte precursor cell interactions. <b>2020</b> , 15, 739-747	8
191	RNA-Based Therapeutics: Current Developments in Targeted Molecular Therapy of Triple-Negative Breast Cancer. <b>2021</b> , 13,	2
190	Gene Therapy for Polyglutamine Spinocerebellar Ataxias: Advances, Challenges, and Perspectives. <b>2021</b> ,	3
189	MicroRNAs: Crucial Players in the Differentiation of Human Pluripotent and Multipotent Stem Cells into Functional Hepatocyte-Like Cells. <b>2021</b> ,	1
188	Iron Oxide-Based Polymeric Magnetic Nanoparticles for Drug and Gene Delivery: In Vitro and In Vivo Applications in Cancer. <b>2019</b> , 1-22	
187	Essential gene networks in acute myeloid leukemia identified using a microRNA-knockout CRISPR library screen.	0
186	A review of potential RNA therapeutics for Machado-Joseph disease. <b>2019</b> , 89, 97	
185	mRNA structural dynamics shape Argonaute-target interactions.	2
184	Insights into Oxidative Stress in Bone Tissue and Novel Challenges for Biomaterials.	1
183	Cisplatin inhibits the proliferation of Saos-2 osteosarcoma cells via the miR-376c/TGFA pathway. <b>2021</b> , 21, 163-173	1
182	MicroRNAs and small interfering RNAs as tools for the directed regulation of cellular processes for cancer therapy. <b>2020</b> , 19, 160-171	
181	Small-hairpin RNAs cause target-independent microRNA dysregulation in neurons and elicit global transcriptomic changes.	0
180	The Role of microRNAs in the Development of Type 2 Diabetes Complications. <b>2020</b> , 26, 5969-5979	1



179	Regulation of aquaporin-2 by RNA interference. <b>2020</b> , 112, 119-145	
178	Gene delivery to tackle diabetic nephropathy. <b>2020</b> , 515-537	
177	Location specific small RNA annealing to the HCV 5'UTR promotes Hepatitis C Virus replication by favoring IRES formation and stimulating virus translation.	
176	Systematic Combination of Oligonucleotides and Synthetic Polymers for Advanced Therapeutic Applications. <b>2021</b> , 29, 665-680	2
175	The promise of microRNA-based therapies in Alzheimer's disease: challenges and perspectives. <b>2021</b> , 16, 76	8
174	Nucleic Acid-Based Treatments Against COVID-19: Potential Efficacy of Aptamers and siRNAs. <b>2021</b> , 12, 758948	2
173	Exploiting Long Noncoding RNAs as Pharmacological Targets to Modulate Epigenetic Diseases. <b>2017</b> , 90, 73-86	27
172	Effects of Klf4 and c-Myc Knockdown on Pluripotency Maintenance in Porcine Induced Pluripotent Stem Cell. <b>2018</b> , 19, 640-646	5
171	[Research Progress of Epigenetics in Pathogenesis and Treatment of Malignant Tumors]. <b>2020</b> , 23, 91-100	1
170	RNA Interference-Based Forest Protection Products (FPPs) Against Wood-Boring Coleopterans: Hope or Hype?. <b>2021</b> , 12, 733608	2
169	MicroRNAs and Their Delivery in Diabetic Fibrosis. <b>2021</b> , 182, 114045	2
168	Development of Kilogram-Scale Convergent Liquid-Phase Synthesis of Oligonucleotides. <b>2021</b> ,	1
167	miRNA Delivery by Nanosystems: State of the Art and Perspectives. <b>2021</b> , 13,	5
166	Decaffeinated coffee and green tea extract inhibit foam cell atherosclerosis by lowering inflammation and improving cholesterol influx/efflux balance through upregulation of PPAR $\alpha$ and miR-155. 10, 1175	
165	A Review on the Evolving Roles of MiRNA-Based Technologies in Diagnosing and Treating Heart Failure. <b>2021</b> , 10,	3
164	Non-coding RNAs and their bioengineering applications for neurological diseases. <b>2021</b> ,	4
163	Relating Mobility of dsRNA in Nanoporous Silica Particles to Loading and Release Behavior.. <b>2021</b> , 4, 8267-8276	
162	Potential of cell-penetrating peptides (CPPs) in delivery of antiviral therapeutics and vaccines.. <b>2021</b> , 169, 106094	2

161	Loss of full-length pumilio 1 abrogates miRNA-221-induced gene p27 silencing-mediated cell proliferation in the heart.. <i>Molecular Therapy - Nucleic Acids</i> , <b>2022</b> , 27, 456-470	10.7	1
160	Liposomal bionanomaterials for nucleic acid delivery. <b>2022</b> , 327-362		
159	Proteinopathies associated to repeat expansion disorders.. <b>2022</b> , 129, 173		1
158	RNA cancer nanomedicine: nanotechnology-mediated RNA therapy.. <b>2022</b> ,		2
157	Advances in potato functional genomics: implications for crop improvement. <b>2022</b> , 148, 447		0
156	RNA Interference: A Versatile Tool to Augment Plant Protection Strategies in Potato. <b>2022</b> , 369-388		
155	Delivery of siRNA to Macrophages: Challenges and Opportunities. <b>2022</b> , 469-487		
154	siRNA polymer conjugates for the delivery of RNAi therapeutics for the treatment of Parkinson disease. <b>2022</b> , 81-98		0
153	RNAi: VIRAL THERAPEUTICS. <b>2022</b> , 14-18		
152	Silencing of Curlin Protein via M13 Phagemid-Mediated Synthetic sRNA Expression Reduces Virulence in the Avian Pathogenic E. coli (APEC).. <b>2022</b> , 79, 105		
151	MicroRNAs Expression in Response to rhNGF in Epithelial Corneal Cells: Focus on Neurotrophin Signaling Pathway.. <b>2022</b> , 23,		0
150	Emerging concepts of miRNA therapeutics: from cells to clinic.. <b>2022</b> ,		15
149	Understanding microRNAs in the Context of Infection to Find New Treatments against Human Bacterial Pathogens.. <b>2022</b> , 11,		0
148	Nucleic Acid-Based COVID-19 Therapy Targeting Cytokine Storms: Strategies to Quell the Storm.. <b>2022</b> , 12,		0
147	RNA Therapeutics: the Next Generation of Drugs for Cardiovascular Diseases.. <b>2022</b> , 1		1
146	Non-viral siRNA delivery to T cells: Challenges and opportunities in cancer immunotherapy. <b>2022</b> , 121510		1
145	Designing electrospun fiber platforms for efficient delivery of genetic material and genome editing tools.. <b>2022</b> , 114161		1
144	Identification of potential target genes in , by miRNA of : A cross kingdom computational approach.. <b>2022</b> , 7, 89-97		1

143	Development of a novel and synthetic HematoMiR technology that broadly modulates quiescence of stem cells and enhances HSC expansion.. <b>2021</b> , 79, 1	0
142	The World of Pseudogenes: New Diagnostic and Therapeutic Targets in Cancers or Still Mystery Molecules?. <b>2021</b> , 11,	1
141	An in-silico approach to design potential siRNAs against the ORF57 of Kaposi's sarcoma-associated herpesvirus.. <b>2021</b> , 19, e47	0
140	"Bind, cleave and leave": multiple turnover catalysis of RNA cleavage by bulge-loop inducing supramolecular conjugates.. <b>2021</b> ,	0
139	Modern Approaches to Acellular Therapy in Bone and Dental Regeneration.. <b>2021</b> , 22,	0
138	Non-Cationic RGD-Containing Protein Nanocarrier for Tumor-Targeted siRNA Delivery.. <b>2021</b> , 13,	0
137	Are We Studying Non-Coding RNAs Correctly? Lessons from nc886.. <b>2022</b> , 23,	1
136	The Current Status of SSRP1 in Cancer: Tribulation and Road Ahead.. <b>2022</b> , 2022, 3528786	
135	Epigenetic Regulation of Chondrocytes and Subchondral Bone in Osteoarthritis.. <b>2022</b> , 12,	0
134	Data_Sheet_1.zip. <b>2020</b> ,	
133	DataSheet1.zip. <b>2018</b> ,	
132	DataSheet10.zip. <b>2018</b> ,	
131	DataSheet11.XLS. <b>2018</b> ,	
130	DataSheet12.XLS. <b>2018</b> ,	
129	DataSheet13.XLS. <b>2018</b> ,	
128	DataSheet2.XLS. <b>2018</b> ,	
127	DataSheet3.XLS. <b>2018</b> ,	
126	DataSheet4.XLS. <b>2018</b> ,	

125 DataSheet5.XLS. **2018,**

124 DataSheet6.zip. **2018,**

123 DataSheet7.XLS. **2018,**

122 DataSheet8.ZIP. **2018,**

121 DataSheet9.XLSX. **2018,**

120 Signaling cascades in the failing heart and emerging therapeutic strategies.. **2022, 7, 134**

1

119 Potentials of MicroRNA in Early Detection of Ovarian Cancer by Analytical Electrical Biosensors. **2021, 1-13**

2

118 Epigenetic Modifications and Non-Coding RNA in Diabetes-Mellitus-Induced Coronary Artery Disease: Pathophysiological Link and New Therapeutic Frontiers.. **2022, 23,**

0

117 Intercellular delivery of therapeutic oligonucleotides. **2022, 103404**

116 Targeting Genetic Modifiers of HBG Gene Expression in Sickle Cell Disease: The miRNA Option.. **2022,**

1

115 Transcriptome analysis provides critical answers to the "variants of uncertain significance" conundrum.. **2022,**

1

114 Sustained inhibition of ENaC in CF: Potential RNA-based therapies for mutation-agnostic treatment.. **2022, 64, 102209**

1

113 A novel CKIP-1 SiRNA slow-release coating on porous titanium implants for enhanced osseointegration. **2022, 212864**

112 Spatio-temporal tracking the transporting of RNA nano-drugs: from transmembrane to intracellular delivery.

0

111 Altering gene expression using antisense oligonucleotide therapy for hearing loss. **2022, 108523**

0

110 Fluorinated PEG-PEI Coated Magnetic Nanoparticles for siRNA Delivery and CXCR4 Knockdown. **2022, 12, 1692**

1

109 miR-181b regulates vascular endothelial aging by modulating an MAP3K3 signaling pathway.. **2022, 36, e22353**

0

108 Inner Ear Drug Delivery for Sensorineural Hearing Loss: Current Challenges and Opportunities. **2022, 16,**

1

107	Flow cytometry-based high-throughput RNAi screening for miRNAs regulating MHC class II HLA-DR surface expression.		1
106	Characterizing genes associated with cancer using the CRISPR/Cas9 system: A systematic review of genes and methodological approaches. <b>2022</b> , 833, 146595		0
105	Understanding the Various Strategies for the Management of Fungal Pathogens in Crop Plants in the Current Scenario. <b>2022</b> , 507-537		
104	Mineralized vectors for gene therapy. <b>2022</b> ,		
103	Nanomedicine for the Delivery of RNA in Cancer. <b>2022</b> , 14, 2677		0
102	siRNA Targeting Mcl-1 Potentiates the Anticancer Activity of Andrographolide Nanosuspensions via Apoptosis in Breast Cancer Cells. <b>2022</b> , 14, 1196		0
101	Meta analysis of bioactive compounds, miRNA, siRNA and cell death regulators as sensitizers to doxorubicin induced chemoresistance.		0
100	Theranostic Potentials of Gold Nanomaterials in Hematological Malignancies. <b>2022</b> , 14, 3047		0
99	Beyond GalNAc! Drug delivery systems comprising complex oligosaccharides for targeted use of nucleic acid therapeutics. <b>2022</b> , 12, 20432-20446		1
98	Gene Therapy in Orthopaedics: Progress and Challenges in Pre-Clinical Development and Translation. 10,		1
97	Sequence-Specific Features of Short Double-Strand, Blunt-End RNAs Have RIG-I- and Type 1 Interferon-Dependent or -Independent Anti-Viral Effects. <b>2022</b> , 14, 1407		1
96	MiRNAs in Lung Cancer: Diagnostic, Prognostic, and Therapeutic Potential. <b>2022</b> , 12, 1610		1
95	HBV cccDNA-A Culprit and Stumbling Block for the Hepatitis B Virus Infection: Its Presence in Hepatocytes Perplexed the Possible Mission for a Functional Cure. <i>ACS Omega</i> , <b>2022</b> , 7, 24066-24081	3.9	0
94	Role of zinc metalloprotease (ZMPSTE24) in porcine reproductive and respiratory syndrome virus (PRRSV) replication in vitro. <i>Archives of Virology</i> ,	2.6	0
93	Delivering the Promise of Gene Therapy with Nanomedicines in Treating Central Nervous System Diseases. <i>Advanced Science</i> , 2201740	13.6	2
92	Aptamer-conjugated nanoliposomes containing COL1A1 siRNA sensitize CRC cells to conventional chemotherapeutic drugs. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2022</b> , 218, 112714	6	2
91	MicroRNAs and Their Big Therapeutic Impacts: Delivery Strategies for Cancer Intervention. <b>2022</b> , 11, 2332		0
90	RISC-y Business: Limitations of Short Hairpin RNA-Mediated Gene Silencing in the Brain and a Discussion of CRISPR/Cas-Based Alternatives. 15,		0

89	Gene therapy to enhance angiogenesis in chronic wounds. <b>2022</b> ,	0
88	Therapeutic siRNA: State-of-the-Art and Future Perspectives.	1
87	Chitosan Based MicroRNA Nanocarriers. <b>2022</b> , 15, 1036	1
86	Mini-review: Mitochondrial DNA methylation in type 2 diabetes and obesity. 13,	1
85	A tRNA-derived fragment of ginseng protects heart against ischemia/reperfusion injury via targeting the lncRNA MIAT/VEGFA pathway. <b>2022</b> , 29, 672-688	0
84	Invertebrate model organisms for aging research. <b>2022</b> , 353-382	0
83	Nanovesicles for the delivery of siRNA. <b>2022</b> , 457-466	0
82	Epigenetics. <b>2022</b> , 585-616	0
81	Polypharmacology in Drug Design and DiscoveryBasis for Rational Design of Multitarget Drugs. <b>2022</b> , 397-533	0
80	RNA therapeutics: updates and future potential.	1
79	Magnetically responsive nanoplatform targeting circRNA circ_0058051 inhibits hepatocellular carcinoma progression.	0
78	Lipid Nanoparticle (LNP) Chemistry Can Endow Unique In Vivo RNA Delivery Fates within the Liver That Alter Therapeutic Outcomes in a Cancer Model.	0
77	Interaction of Different Drying Methods and Storage on Appearance, Surface Structure, Energy, and Quality of Berberis vulgaris var. asperma. <b>2022</b> , 11, 3003	0
76	Aptamer-siRNA chimeras: Promising tools for targeting HER2 signaling in cancer.	0
75	Role of Different Types of miRNAs in Some Cardiovascular Diseases and Therapy-Based miRNA Strategies: A Mini Review. <b>2022</b> , 2022, 1-9	0
74	Transcriptomics and RNA-Based Therapeutics as Potential Approaches to Manage SARS-CoV-2 Infection. <b>2022</b> , 23, 11058	0
73	Lipid-based nucleic acid therapeutics with in vivo efficacy.	1
72	IMMUNOMODULATORY BIOMATERIAL-BASED WOUND DRESSINGS ADVANCE THE HEALING OF CHRONIC WOUNDS VIA REGULATING MACROPHAGE BEHAVIOR	1

71	Oligonucleotide-Based Therapies for Chronic HBV Infection: A Primer on Biochemistry, Mechanisms and Antiviral Effects. <b>2022</b> , 14, 2052	0
70	MicroRNA-708 emerges as a potential candidate to target undruggable NRAS.	0
69	Development and in vivo validation of small interfering RNAs targeting NOX3 to prevent sensorineural hearing loss. 13,	0
68	RNA Therapeutics for Cancers.	0
67	Is there a potential of circulating miRNAs as biomarkers in rheumatic diseases?. <b>2022</b> ,	0
66	MiR-31 improves spinal cord injury in mice by promoting the migration of bone marrow mesenchymal stem cells. <b>2022</b> , 17, e0272499	0
65	Modulatory role of miRNAs in thyroid and breast cancer progression and insights into their therapeutic manipulation. <b>2022</b> , 100131	2
64	IGT mediated Nanog siRNA delivery in prostate cancer cells improves chemosensitization of Epirubicin in vitro. <b>2022</b> , 76, 129017	0
63	A perspective on oligonucleotide therapy: Approaches to patient customization. 13,	2
62	Oligonucleotide separation techniques for purification and analysis: What can we learn for today's tasks?.	0
61	Lipid nanomaterials-based RNA therapy and cancer treatment. <b>2022</b> ,	0
60	Small interfering RNA (siRNA): discovery, pharmacology and clinical development <a href="#">An</a> introductory review.	2
59	RNA Editing Therapeutics: Advances, Challenges and Perspectives on Combating Heart Disease.	1
58	Targeted delivery of 5-fluorouracil, miR-532-3p, and si-KRAS to the colorectal tumor using layer-by-layer liposomes. 10,	0
57	Molecular Engines, Therapeutic Targets, and Challenges in Pediatric Brain Tumors: A Special Emphasis on Hydrogen Sulfide and RNA-Based Nano-Delivery. <b>2022</b> , 14, 5244	1
56	Early endosomes act as local exocytosis hubs to repair endothelial membrane damage.	0
55	MicroRNAs modulate neuroinflammation after intracerebral hemorrhage: Prospects for new therapy. 13,	0
54	Nanoparticles: The future of effective diagnosis and treatment of colorectal cancer?. <b>2022</b> , 936, 175350	1

53	Nebulization of extracellular vesicles: A promising small RNA delivery approach for lung diseases. <b>2022</b> , 352, 556-569	1
52	Vetinformatics from functional genomics to drug discovery: Insights into decoding complex molecular mechanisms of livestock systems in veterinary science. 9,	0
51	Surface Design Options in Polymer- and Lipid-Based siRNA Nanoparticles Using Antibodies. <b>2022</b> , 23, 13929	0
50	Monkeypox Outbreak 2022: What We Know So Far and Its Potential Drug Targets and Management Strategies.	3
49	Clinical Pharmacology of RNAi-based Therapeutics: A Summary Based On FDA-Approved Small-interfering RNAs. DMD-MR-2022-001107	0
48	Therapeutic Potential of Combinative shRNA-Encoded Lentivirus-Mediated Gene Silencing to Accelerate Somatosensory Recovery After Spinal Cord Trauma.	0
47	Recent trends and advances of RNA interference (RNAi) to improve agricultural crops and enhance their resilience to biotic and abiotic stresses. <b>2023</b> , 194, 600-618	1
46	Emerging Evidence on the Effects of Plant-derived MicroRNA in Colorectal Cancer:A Review.	0
45	Insight into aphid mediated Potato Virus Y transmission: A molecular to bioinformatics prospective. 13,	0
44	Innovative approaches in transforming microRNAs into therapeutic tools.	0
43	What Do We Know about Barley miRNAs?. <b>2022</b> , 23, 14755	0
42	Recent Advancements in the Design of Nanodelivery Systems of siRNA for Cancer Therapy. <b>2022</b> , 19, 4506-4526	1
41	Emerging Role of MicroRNA-30c in Neurological Disorders. <b>2023</b> , 24, 37	0
40	Dark DNA and stress (Review). <b>2022</b> , 51,	0
39	A comprehensive update of siRNA delivery design strategies for targeted and effective gene silencing in gene therapy and other applications. 1-13	0
38	A Simple Synthesis of Reduction-Responsive Acrylamide-Type Nanogels for miRNA Delivery. <b>2023</b> , 28, 761	0
37	Smart Plant Breeding for Potato in the Post-genomics Era. <b>2023</b> , 337-356	0
36	Nucleic acid drug vectors for diagnosis and treatment of brain diseases. <b>2023</b> , 8,	0



35	Layer-by-Layer siRNA Particle Assemblies for Localized Delivery of siRNA to Epithelial Cells through Surface-Mediated Particle Uptake. <b>2023</b> , 6, 83-92	0
34	Bioinspired Lipid Nanocarriers for RNA Delivery.	0
33	How Advanced are Cancer Immuno-Nanotherapeutics? A Comprehensive Review of the Literature. Volume 18, 35-48	0
32	Lipid Nanoparticles for Nucleic Acid Delivery to Endothelial Cells. <b>2023</b> , 40, 3-25	0
31	Passive, active and endogenous organ-targeted lipid and polymer nanoparticles for delivery of genetic drugs.	2
30	Comparing Effectiveness of Hyaluronic Acid-Chitosan Nanoparticles Encapsulation Versus Hyaluronic Acid Monotherapy in Osteoarthritis Rat Model: Microarray Screening for miR-140.	0
29	Analytical and therapeutic profiles of DNA methylation alterations in cancer; an overview of changes in chromatin arrangement and alterations in histone surfaces. <b>2022</b> ,	0
28	miRNAs as potential game-changers in melanoma: A comprehensive review. <b>2023</b> , 244, 154424	0
27	EPAS1 resistance to miRNA-based regulation contributes to prolonged expression of HIF-2 during hypoxia in human endothelial cells. <b>2023</b> , 868, 147376	0
26	Optochemical Control of mRNA Translation in Eukaryotes.	0
25	miRNAs role in bladder cancer pathogenesis and targeted therapy: Signaling pathways interplay <b>IA</b> review. <b>2023</b> , 242, 154316	0
24	Gene Nanovector for Genome Therapy. <b>2022</b> , 1-36	0
23	Perspectives on the nanocarriers with miRNAs for targeting melanoma stemness through epigenetic regulation.	0
22	Modulating epigenetic modifications for cancer therapy (Review). <b>2023</b> , 49,	1
21	Epigenetic reprogramming in cancer: From diagnosis to treatment. 11,	0
20	Mécanismes d'action et brevetabilité des oligonucléotides thérapeutiques. <b>2023</b> , 39, 111-118	0
19	Respiratory Syncytial Virus Infection: Treatments and Clinical Management. <b>2023</b> , 11, 491	0
18	Scoping Review on Epigenetic Mechanisms in Primary Immune Thrombocytopenia. <b>2023</b> , 14, 555	0

- 17 How to Best Protect Kidneys for Transplantation Mechanistic Target. **2023**, 12, 1787
- 16 Recent Advances in Using Liposomes for Delivery of Nucleic Acid-Based Therapeutics. **2023**, 100132
- 15 Advances in RNA cancer therapeutics: New insight into exosomes as miRNA delivery. **2023**, 1, 100005
- 14 Still finding ways to augment the existing management of acute and chronic kidney diseases with targeted gene and cell therapies: Opportunities and hurdles. 10,
- 13 Rational polyelectrolyte nanoparticles endow preosteoclast-targeted siRNA transfection for anabolic therapy of osteoporosis. **2023**, 9,
- 12 Optochemical Control of mRNA Translation in Eukaryotes.
- 11 Early Endosomes Act as Local Exocytosis Hubs to Repair Endothelial Membrane Damage. 2300244
- 10 Diabetic Polyneuropathy: New Strategies to Target Sensory Neurons in Dorsal Root Ganglia. **2023**, 24, 5977
- 9 Epithelial-Mesenchymal Transition: Molecular Mechanisms of Retinal Pigment Epithelial Cell Activation. **2022**, 53, 421-450
- 8 Epigenetic regulons in Alzheimer's disease. **2023**,
- 7 Nanoparticles Mediated circROBO1 Silencing to Inhibit Hepatocellular Carcinoma Progression by Modulating miR-130a-5p/CCNT2 Axis. Volume 18, 1677-1693
- 6 A New Wave of Targeting Undruggable Wnt Signaling for Cancer Therapy: Challenges and Opportunities. **2023**, 12, 1110
- 5 Polymerase Chain Reaction: Applications in Gene and Cell Therapy Studies.
- 4 A transferrin receptor 1-targeted PNA-peptide conjugate inhibits microRNA-21 expression in cardiac and other mouse tissues.
- 3 Peeking into plant-microbe interactions during plant defense. **2023**, 167-200
- 2 MicroRNA-708 emerges as a potential candidate to target undruggable NRAS. **2023**, 18, e0284744
- 1 Using chitosan-stabilized, hyaluronic acid-modified selenium nanoparticles to deliver CD44-targeted PLK1 siRNAs for treating bladder cancer. **2023**, 18, 259-277