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## MicroRNA: function, detection, and bioanalysis

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902	High-Fidelity and Rapid Quantification of miRNA Combining crRNA Programmability and CRISPR/Cas13a trans-Cleavage Activity.		
901	Synthesis and characterization of oligodeoxyribonucleotides modified with 2'-amino-L-LNA adenine monomers: high-affinity targeting of single-stranded DNA. <b>2013</b> , 78, 12690-702		11
900	Solution phase synthesis of short oligoribonucleotides on a precipitative tetrapodal support. <b>2014</b> , 10, 2279-85		10
899	Nanomaterials-Based Sensing Strategies for Electrochemical Detection of MicroRNAs. <b>2014</b> , 7, 5366-5384		17
898	A highly sensitive ratiometric electrochemiluminescent biosensor for microRNA detection based on cyclic enzyme amplification and resonance energy transfer. <b>2014</b> , 50, 14828-30		84
897	Bioorthogonal tetrazine-mediated transfer reactions facilitate reaction turnover in nucleic acid-templated detection of microRNA. <b>2014</b> , 136, 17942-5		108
896	What do all the (human) micro-RNAs do?. <b>2014</b> , 15, 976		4
895	Identification of biological targets of therapeutic intervention for diabetic nephropathy with bioinformatics approach. <b>2014</b> , 122, 587-91		5
894	An efficient electrochemical method for direct screening of the mutation status of DNA base in oligonucleotides. <b>2014</b> , 201, 222-227		12
893	Electrochemical genosensors for the detection of cancer-related miRNAs. <b>2014</b> , 406, 27-33		57
892	Isothermal amplified detection of DNA and RNA. <b>2014</b> , 10, 970-1003		271
891	Effects of common polymorphisms rs2910164 in miR-146a and rs11614913 in miR-196a2 on susceptibility to colorectal cancer: a systematic review meta-analysis. <b>2014</b> , 16, 792-800		23
890	Universality splitting in distribution of number of miRNA co-targets. <b>2014</b> , 8, 21-6		
889	Point-of-care technologies for molecular diagnostics using a drop of blood. <b>2014</b> , 32, 132-9		154
888	Visual detection of microRNA with lateral flow nucleic acid biosensor. <b>2014</b> , 54, 578-84		97
887	Magnetic bead-based hybridization assay for electrochemical detection of microRNA. <b>2014</b> , 813, 35-40		52
886	A T7 exonuclease-assisted cyclic enzymatic amplification method coupled with rolling circle amplification: a dual-amplification strategy for sensitive and selective microRNA detection. <b>2014</b> , 50, 1576-8		68

885	Electrochemical Detection of miRNAs. <b>2014</b> , 26, 1224-1235	34
884	MicroRNAs as novel biological targets for detection and regulation. <b>2014</b> , 43, 506-17	195
883	Clinical relevance of circulating cell-free microRNAs in cancer. <b>2014</b> , 11, 145-56	740
882	Highly sensitive and label-free electrochemical detection of microRNAs based on triple signal amplification of multifunctional gold nanoparticles, enzymes and redox-cycling reaction. <b>2014</b> , 53, 399-405	119
881	Multiplexed and amplified electronic sensor for the detection of microRNAs from cancer cells. <b>2014</b> , 86, 11913-8	104
880	Circulating microRNAs as Promising Tumor Biomarkers. <b>2014</b> , 67, 189-214	28
879	Bottom-up mass spectrometric sequencing of microRNA. <b>2014</b> , 6, 8829-8839	6
878	Multiplexed miRNA detection using cationic polythiophene. <b>2014</b> , 6, 2399	7
877	An oligonucleotide-based label-free luminescent switch-on probe for RNA detection utilizing a G-quadruplex-selective iridium(III) complex. <b>2014</b> , 6, 8489-94	53
876	MICROFLUIDIC DEVICES FOR LABEL-FREE AND NON-INSTRUMENTED QUANTITATION OF UNAMPLIFIED NUCLEIC ACIDS BY FLOW DISTANCE MEASUREMENT. <b>2014</b> , 6, 8173-8179	7
875	An integrated approach for enhanced protein conjugation and capture with viral nanotemplates and hydrogel microparticle platforms via rapid bioorthogonal reactions. <b>2014</b> , 30, 7762-70	24
874	Simultaneous sensing of intracellular microRNAs with a multi-functionalized carbon nitride nanosheet probe. <b>2014</b> , 50, 13604-7	59
873	Heat shock factor 1 regulates hsa-miR-432 expression in human cervical cancer cell line. <b>2014</b> , 453, 461-6	10
872	Absolute and direct microRNA quantification using DNA-gold nanoparticle probes. <b>2014</b> , 136, 2264-7	317
871	Antiviral effects of inhibiting host gene expression. <b>2015</b> , 386, 459-77	10
870	Nanotechnology-based strategies for the detection and quantification of microRNA. <b>2014</b> , 20, 9476-92	44
869	Homogeneous and sensitive detection of microRNA with ligase chain reaction and lambda exonuclease-assisted cationic conjugated polymer biosensing. <b>2014</b> , 6, 6181-5	54
868	Fabricating a reversible and regenerable electrochemical biosensor for quantitative detection of antibody by using "triplex-stem" DNA molecular switch. <b>2014</b> , 845, 38-44	10

867	Carbohydrate-functionalized locked nucleic acids: oligonucleotides with extraordinary binding affinity, target specificity, and enzymatic stability. <b>2014</b> , 16, 3308-11	13
866	C5-alkynyl-functionalized L-LNA: synthesis, thermal denaturation experiments and enzymatic stability. <b>2014</b> , 79, 5062-73	7
865	Target-cell-specific fluorescence silica nanoprobe for imaging and theranostics of cancer cells. <b>2014</b> , 86, 3602-9	50
864	Synthesis and biophysical properties of C5-functionalized LNA (locked nucleic acid). <b>2014</b> , 79, 5047-61	26
863	Synthesis, hybridization characteristics, and fluorescence properties of oligonucleotides modified with nucleobase-functionalized locked nucleic acid adenosine and cytidine monomers. <b>2014</b> , 79, 6256-68	11
862	Liquid-Phase Synthesis of 2'-Methyl-RNA on a Homostar Support through Organic-Solvent Nanofiltration. <b>2015</b> , 21, 9535-43	15
861	Multiplexed microRNA TG-FRET assay with isothermal and amplification-free single-step. <b>2015</b> , 58, 852-853	
860	Identification of Cellular MicroRNA Coupling Strand Displacement Polymerization and Nicking-Endonuclease-Based Cleavage. <b>2015</b> , 80, 1712-1715	8
859	Epigenetic Mechanisms Leading to Overexpression of HMGA Proteins in Human Pituitary Adenomas. <b>2015</b> , 2, 39	25
858	MicroRNA Expression Profile in Penile Cancer Revealed by Next-Generation Small RNA Sequencing. <b>2015</b> , 10, e0131336	20
857	Detection of MicroRNAs: The Art of MicroRNA Research in Human Diseases. <b>2015</b> , Suppl 3,	3
856	Highly sensitive and selective detection of miRNA: DNase I-assisted target recycling using DNA probes protected by polydopamine nanospheres. <b>2015</b> , 51, 2156-8	65
855	Post-transcriptional regulation of connexins. <b>2015</b> , 43, 465-70	17
854	Single Cell Real-Time miRNAs Sensing Based on Nanomotors. <b>2015</b> , 9, 6756-64	208
853	An electrochemical microRNAs biosensor with the signal amplification of alkaline phosphatase and electrochemical-chemical-chemical redox cycling. <b>2015</b> , 878, 95-101	52
852	Nanomaterials-Based Fluorimetric Methods for MicroRNAs Detection. <b>2015</b> , 8, 2809-2829	13
851	miRNA Optical Detection. <b>2015</b> , 57-75	
850	A peptide nucleic acid-functionalized carbon nitride nanosheet as a probe for in situ monitoring of intracellular microRNA. <b>2015</b> , 140, 4245-52	27

849	MicroRNA Detection and Pathological Functions. <b>2015</b> ,	3
848	MicroRNA-Responsive Cancer Cell Imaging and Therapy with Functionalized Gold Nanoprobe. <b>2015</b> , 7, 19016-23	26
847	Toward biosensors for the detection of circulating microRNA as a cancer biomarker: an overview of the challenges and successes. <b>2015</b> , 7, 580-92	32
846	In situ quantitation of intracellular microRNA in the whole cell cycle with a functionalized carbon nanosphere probe. <b>2015</b> , 51, 2141-4	21
845	An electrochemical biosensor for sensitive detection of microRNA-155: combining target recycling with cascade catalysis for signal amplification. <b>2015</b> , 7, 713-20	88
844	Isothermal circular-strand-displacement polymerization of DNA and microRNA in digital microfluidic devices. <b>2015</b> , 407, 1533-43	40
843	A review: microRNA detection methods. <b>2015</b> , 13, 2226-38	172
842	High-Mobility Group Box 1 Promotes Hepatocellular Carcinoma Progression through miR-21-Mediated Matrix Metalloproteinase Activity. <b>2015</b> , 75, 1645-56	68
841	The clinical relevance of circulating, exosomal miRNAs as biomarkers for cancer. <b>2015</b> , 15, 1159-69	62
840	Microelectrode miRNA sensors enabled by enzymeless electrochemical signal amplification. <b>2015</b> , 87, 8173-80	56
839	Gold Nanoparticles for In Vitro Diagnostics. <i>Chemical Reviews</i> , <b>2015</b> , 115, 10575-636	68.1 598
838	MicroRNAs as potential drug targets for therapeutic intervention in colorectal cancer. <b>2015</b> , 19, 1705-23	11
837	Highly selective and sensitive detection of miRNA based on toehold-mediated strand displacement reaction and DNA tetrahedron substrate. <b>2015</b> , 71, 401-406	28
836	Amplification-based method for microRNA detection. <b>2015</b> , 71, 322-331	53
835	Sensitive impedimetric detection of microRNAs using a hairpin probe based on DNAzyme-functionalized gold nanoparticle tag-initiated deposition of an insulating film on gold electrode. <b>2015</b> , 213, 409-416	25
834	Mach-Zehnder interferometer (MZI) point-of-care system for rapid multiplexed detection of microRNAs in human urine specimens. <b>2015</b> , 71, 365-372	43
833	Electrochemical sensor based on a polyaniline-modified SnO <sub>2</sub> nanocomposite for detecting ethephon. <b>2015</b> , 7, 4725-4733	15
832	MicroRNA Detection: Current Technology and Research Strategies. <b>2015</b> , 8, 217-37	102

831	Signal-off Electrochemiluminescence Biosensor Based on Phi29 DNA Polymerase Mediated Strand Displacement Amplification for MicroRNA Detection. <b>2015</b> , 87, 6328-34	127
830	Cell-derived vesicles for drug therapy and diagnostics: opportunities and challenges. <b>2015</b> , 10, 397-409	101
829	MnO <sub>2</sub> nanosheets based fluorescent sensing platform with organic dyes as a probe with excellent analytical properties. <b>2015</b> , 140, 4021-9	48
828	Multifunctional Poly(L-lactide)-Polyethylene Glycol-Grafted Graphene Quantum Dots for Intracellular MicroRNA Imaging and Combined Specific-Gene-Targeting Agents Delivery for Improved Therapeutics. <b>2015</b> , 7, 11015-23	92
827	Detection of microRNA SNPs with ultrahigh specificity by using reduced graphene oxide-assisted rolling circle amplification. <b>2015</b> , 51, 10002-5	41
826	Tetrahedral DNA nanostructure-based microRNA biosensor coupled with catalytic recycling of the analyte. <b>2015</b> , 7, 6238-43	57
825	Highly sensitive and selective microRNA detection based on DNA-bio-bar-code and enzyme-assisted strand cycle exponential signal amplification. <b>2015</b> , 87, 4334-40	71
824	Application of Oracet Blue in a novel and sensitive electrochemical biosensor for the detection of microRNA. <b>2015</b> , 7, 9495-9503	25
823	Nucleic-acid recognition interfaces: how the greater ability of RNA duplexes to bend towards the surface influences electrochemical sensor performance. <b>2015</b> , 51, 16526-9	8
822	Gap junctional shuttling of miRNA--A novel pathway of intercellular gene regulation and its prospects in clinical application. <b>2015</b> , 27, 2506-14	36
821	Label-Free and Enzyme-Free Homogeneous Electrochemical Biosensing Strategy Based on Hybridization Chain Reaction: A Facile, Sensitive, and Highly Specific MicroRNA Assay. <b>2015</b> , 87, 11368-74	243
820	Ribosome-targeting antibiotics as inhibitors of oncogenic microRNAs biogenesis: Old scaffolds for new perspectives in RNA targeting. <b>2015</b> , 23, 5334-44	17
819	Inhibitory impact of 3'-terminal 2'-O-methylated small silencing RNA on target-primed polymerization and unbiased amplified quantification of the RNA in Arabidopsis thaliana. <b>2015</b> , 87, 8758-64	24
818	Enhanced fluorescence detection of miRNA-16 on a photonic crystal. <b>2015</b> , 140, 5459-63	22
817	Lab on a single microbead: an ultrasensitive detection strategy enabling microRNA analysis at the single-molecule level. <b>2015</b> , 6, 6213-6218	57
816	Toehold-mediated nonenzymatic amplification circuit on graphene oxide fluorescence switching platform for sensitive and homogeneous microRNA detection. <b>2015</b> , 888, 162-72	28
815	miRNA Electrochemical Detection. <b>2015</b> , 37-56	
814	Digital quantification of miRNA directly in plasma using integrated comprehensive droplet digital detection. <b>2015</b> , 15, 4217-26	52

813	ABC Spotlight on emerging microRNA analysis methods. <b>2015</b> , 407, 6579-81	2
812	Overexpression of miR-218 inhibits hepatocellular carcinoma cell growth through RET. <b>2015</b> , 36, 1511-8	15
811	Synthesis of fluorescent dye-doped silica nanoparticles for target-cell-specific delivery and intracellular microRNA imaging. <b>2015</b> , 140, 567-73	26
810	In situ amplification of intracellular microRNA with MNzyme nanodevices for multiplexed imaging, logic operation, and controlled drug release. <b>2015</b> , 9, 789-98	104
809	An ultrasensitive electrochemical miRNAs sensor based on miRNAs-initiated cleavage of DNA by duplex-specific nuclease and signal amplification of enzyme plus redox cycling reaction. <b>2015</b> , 208, 137-142	32
808	MicroRNA-based biotechnology for plant improvement. <b>2015</b> , 230, 1-15	158
807	The dynamic regulation of microRNAs circuits in plant adaptation to abiotic stresses: A survey on molecular, physiological and methodological aspects. <b>2015</b> , 114, 65-79	5
806	Influenza Pathogenesis and Control - Volume II. <b>2015</b> ,	2
805	Ultrasensitive electrochemical detection of microRNA with star trigon structure and endonuclease mediated signal amplification. <b>2015</b> , 63, 365-370	68
804	Diagnostic value of circulating miR-21: An update meta-analysis in various cancers and validation in endometrial cancer. <b>2016</b> , 7, 68894-68908	21
803	Diagnostic relevance of circulating cell-free and exosomal microRNAs and long non-coding RNAs in blood of cancer patients. <b>2016</b> , 40,	0
802	Transgenic Mouse Expressing Optical MicroRNA Reporter for Monitoring MicroRNA-124 Action during Development. <b>2016</b> , 9, 52	6
801	Sperm microRNA Content Is Altered in a Mouse Model of Male Obesity, but the Same Suite of microRNAs Are Not Altered in Offspring's Sperm. <b>2016</b> , 11, e0166076	51
800	Target-Induced and Equipment-Free DNA Amplification with a Simple Paper Device. <b>2016</b> , 128, 2759-2763	36
799	Photoinduced Electron Transfer-Based Fluorescence Quenching Combined with Rolling Circle Amplification for Sensitive Detection of MicroRNA. <b>2016</b> , 1, 6422-6428	7
798	Identification of novel and differentially expressed MicroRNAs in goat enzootic nasal adenocarcinoma. <b>2016</b> , 17, 896	3
797	Detection of miRNA using a surface plasmon resonance biosensor and antibody amplification. <b>2016</b> , 2, 135-138	11
796	Two wavelength-shifting molecular beacons for simultaneous and selective imaging of vesicular miRNA-21 and miRNA-31 in living cancer cells. <b>2016</b> , 14, 5001-6	15

795	Current development of targeted oligonucleotide-based cancer therapies: Perspective on HER2-positive breast cancer treatment. <b>2016</b> , 45, 19-29	18
794	Highly specific quantification of microRNA by coupling probe-rolling circle amplification and Förster resonance energy transfer. <b>2016</b> , 502, 16-23	19
793	Microsynteny and phylogenetic analysis of tandemly organised miRNA families across five members of Brassicaceae reveals complex retention and loss history. <b>2016</b> , 247, 35-48	13
792	Trace MicroRNA Quantification by Means of Plasmon-Enhanced Hybridization Chain Reaction. <b>2016</b> , 88, 4600-4	49
791	Reversing epigenetic mechanisms of drug resistance in solid tumors using targeted microRNA delivery. <b>2016</b> , 13, 987-98	11
790	Direct and Label-Free Quantification of Micro-RNA-181a at Attomolar Level in Complex Media Using a Nanophotonic Biosensor. <b>2016</b> , 1, 748-756	40
789	Enzyme-free and multiplexed microRNA detection using microRNA-initiated DNA molecular motor. <b>2016</b> , 59, 83-88	8
788	An ultrasensitive SERS sensor for simultaneous detection of multiple cancer-related miRNAs. <b>2016</b> , 8, 17365-17373	78
787	Immobilization of Oligonucleotides on Metal-Dielectric Nanostructures for miRNA Detection. <b>2016</b> , 88, 9554-9563	32
786	Functional Nucleic Acids Detection in Food Safety. <b>2016</b> ,	7
785	Discovery of a Small-Molecule Inhibitor of Protein-MicroRNA Interaction Using Binding Assay with a Site-Specifically Labeled Lin28. <b>2016</b> , 138, 13630-13638	35
784	Amino Acid Specific Effects on RNA Tertiary Interactions: Single-Molecule Kinetic and Thermodynamic Studies. <b>2016</b> , 120, 10615-10627	20
783	Genotoxicity Detection at the Molecular Level in Food Safety Assessment: Conventional Methods and Developments. <b>2016</b> , 417-442	1
782	miRNA Regulation of Immune Tolerance in Early Pregnancy. <b>2016</b> , 75, 272-80	34
781	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
780	miRNA Profiling in Plants: Current Identification and Expression Approaches. <b>2016</b> , 189-215	
779	Visualization and Quantification of MicroRNA in a Single Cell Using Atomic Force Microscopy. <b>2016</b> , 138, 11664-71	28
778	Gold Nanoparticle Coated Silica Nanorods for Sensitive Visual Detection of microRNA on a Lateral Flow Strip Biosensor. <b>2016</b> , 32, 617-22	24



777	Multiplex miRNA assay using lanthanide-tagged probes and the duplex-specific nuclease amplification strategy. <b>2016</b> , 52, 14310-14313	51
776	Rapid and ultrasensitive detection of microRNA by target-assisted isothermal exponential amplification coupled with poly (thymine)-templated fluorescent copper nanoparticles. <b>2016</b> , 27, 425502	29
775	The roles of miRNAs as potential biomarkers in lung diseases. <b>2016</b> , 791, 395-404	90
774	A three-line lateral flow biosensor for logic detection of microRNA based on Y-shaped junction DNA and target recycling amplification. <b>2016</b> , 408, 8195-8202	22
773	Separation of microRNA 21 as a cancer marker from glioblastoma cell line using molecularly imprinted polymer coated on silica nanoparticles. <b>2016</b> , 39, 3564-70	8
772	Label-free detection of microRNA based on coupling multiple isothermal amplification techniques. <b>2016</b> , 6, 35982	16
771	Ligating Dopamine as Signal Trigger onto the Substrate via Metal-Catalyst-Free Click Chemistry for "Signal-On" Photoelectrochemical Sensing of Ultralow MicroRNA Levels. <b>2016</b> , 88, 11444-11449	65
770	Enzyme-free fluorescent biosensor for miRNA-21 detection based on MnO <sub>2</sub> nanosheets and catalytic hairpin assembly amplification. <b>2016</b> , 8, 8492-8497	25
769	Precise Quantitation of MicroRNA in a Single Cell with Droplet Digital PCR Based on Ligation Reaction. <b>2016</b> , 88, 11384-11389	61
768	Deficiency in DGCR8-dependent canonical microRNAs causes infertility due to multiple abnormalities during uterine development in mice. <b>2016</b> , 6, 20242	13
767	Functional stratification of biomarkers selected from microarray data for understanding oral leukoplakia associated carcinogenesis. <b>2016</b> ,	
766	Self-assembled nanoparticle dimers with contemporarily relevant properties and emerging applications. <b>2016</b> , 19, 595-606	41
765	isomiR-SEA: an RNA-Seq analysis tool for miRNAs/isomiRs expression level profiling and miRNA-mRNA interaction sites evaluation. <b>2016</b> , 17, 148	38
764	Small-molecule approaches toward the targeting of oncogenic miRNAs: roadmap for the discovery of RNA modulators. <b>2016</b> , 8, 803-16	26
763	Gold-Quantum Dot Core-Satellite Assemblies for Lighting Up MicroRNA In Vitro and In Vivo. <b>2016</b> , 12, 4662-8	77
762	Target-Induced and Equipment-Free DNA Amplification with a Simple Paper Device. <b>2016</b> , 55, 2709-13	97
761	An in vivo molecular response analysis of colorectal cancer treated with Astragalus membranaceus extract. <b>2016</b> , 35, 659-68	20
760	Noninvasive visualization of microRNA-155 in multiple kinds of tumors using a radiolabeled anti-miRNA oligonucleotide. <b>2016</b> , 43, 171-8	5

759	Electrochemical determination of microRNAs based on isothermal strand-displacement polymerase reaction coupled with multienzyme functionalized magnetic micro-carriers. <b>2016</b> , 80, 344-351	33
758	Viral protein-based bioanalytical tools for small RNA biosensing. <b>2016</b> , 79, 335-343	14
757	An exothermic chip for point-of-care testing using a forehead thermometer as a readout. <b>2016</b> , 16, 525-31	25
756	Y-shaped probe for convenient and label-free detection of microRNA-21 in vitro. <b>2016</b> , 499, 8-14	16
755	A novel polydopamine-based chemiluminescence resonance energy transfer method for microRNA detection coupling duplex-specific nuclease-aided target recycling strategy. <b>2016</b> , 80, 366-372	55
754	A visible and label-free colorimetric sensor for miRNA-21 detection based on peroxidase-like activity of graphene/gold-nanoparticle hybrids. <b>2016</b> , 8, 2005-2012	45
753	Fast Optical Chemical and Structural Classification of RNA. <b>2016</b> , 10, 2834-42	41
752	A conformation-induced fluorescence method for microRNA detection. <b>2016</b> , 44, e92	34
751	Near Infrared-Guided Smart Nanocarriers for MicroRNA-Controlled Release of Doxorubicin/siRNA with Intracellular ATP as Fuel. <b>2016</b> , 10, 3637-47	121
750	Surface-enhanced Raman spectroscopy on porous silicon membranes decorated with Ag nanoparticles integrated in elastomeric microfluidic chips. <b>2016</b> , 6, 21865-21870	26
749	Electrolytic exfoliation synthesis of boron doped graphene quantum dots: a new luminescent material for electrochemiluminescence detection of oncogene microRNA-20a. <b>2016</b> , 190, 1150-1158	58
748	Two-stage cyclic enzymatic amplification method for ultrasensitive electrochemical assay of microRNA-21 in the blood serum of gastric cancer patients. <b>2016</b> , 79, 307-12	45
747	Visual Detection of Multiplex MicroRNAs Using Cationic Conjugated Polymer Materials. <b>2016</b> , 8, 1520-6	30
746	Emerging Biosensing Approaches for microRNA Analysis. <b>2016</b> , 88, 431-50	139
745	Impaired regulatory T cell function in autoimmune diseases: are microRNAs the culprits?. <b>2016</b> , 13, 135-7	5
744	Sensitive and label-free detection of miRNA-145 by triplex formation. <b>2016</b> , 408, 885-93	25
743	RNA Imaging. <b>2016</b> ,	2
742	Label-free fluorescence strategy for sensitive microRNA detection based on isothermal exponential amplification and graphene oxide. <b>2016</b> , 148, 116-21	47

741	A novel label-free electrochemical miRNA biosensor using methylene blue as redox indicator: application to breast cancer biomarker miRNA-21. <b>2016</b> , 77, 202-7	125
740	An electrochemical nanobiosensor for plasma miRNA-155, based on graphene oxide and gold nanorod, for early detection of breast cancer. <b>2016</b> , 77, 99-106	230
739	High-throughput, selective, and sensitive colorimetry for free microRNAs in blood via exonuclease I digestion and hemin-G-quadruplex catalysis reactions based on a self-cleaning functionalized microarray. <b>2016</b> , 222, 198-204	23
738	An enzyme-amplified lateral flow strip biosensor for visual detection of microRNA-224. <b>2016</b> , 146, 648-54	61
737	Fluorescent nanoswitch for monitoring specific pluripotency-related microRNAs of induced pluripotent stem cells: Development of polyethyleneimine-oligonucleotide hybridization probes. <b>2017</b> , 10, 2545-2559	2
736	Ultrasensitive Electrochemical Detection of miRNA-21 Using a Zinc Finger Protein Specific to DNA-RNA Hybrids. <b>2017</b> , 89, 2024-2031	53
735	Electrochemical biosensing of microribonucleic acids using antibodies and viral proteins with affinity for ribonucleic acid duplexes. <b>2017</b> , 230, 271-278	14
734	miRDis: a Web tool for endogenous and exogenous microRNA discovery based on deep-sequencing data analysis. <b>2018</b> , 19, 415-424	11
733	Biodegradable MnO Nanosheet-Mediated Signal Amplification in Living Cells Enables Sensitive Detection of Down-Regulated Intracellular MicroRNA. <b>2017</b> , 9, 5717-5724	78
732	"Off" to "On" Surface-Enhanced Raman Spectroscopy Platform with Padlock Probe-Based Exponential Rolling Circle Amplification for Ultrasensitive Detection of MicroRNA 155. <b>2017</b> , 89, 2866-2872	89
731	MicroRNA-29: A Crucial Player in Fibrotic Disease. <b>2017</b> , 21, 285-294	44
730	Profound changes in miRNA expression during cancer initiation by aflatoxin B and their abrogation by the chemopreventive triterpenoid CDDO-Im. <b>2017</b> , 56, 2382-2390	23
729	Simple, sensitive and label-free electrochemical detection of microRNAs based on the in situ formation of silver nanoparticles aggregates for signal amplification. <b>2017</b> , 94, 235-242	37
728	Cyclometalated Iridium-Complex-Based Label-Free Supersandwich Electrogenerated Chemiluminescence Biosensor for the Detection of Micro-RNA. <b>2017</b> , 4, 1775-1782	10
727	Building Electromagnetic Hot Spots in Living Cells via Target-Triggered Nanoparticle Dimerization. <b>2017</b> , 11, 3532-3541	89
726	A versatile size-coded flow cytometric bead assay for simultaneous detection of multiple microRNAs coupled with a two-step cascading signal amplification. <b>2017</b> , 53, 2926-2929	20
725	In Situ Hot-Spot Assembly as a General Strategy for Probing Single Biomolecules. <b>2017</b> , 89, 4776-4780	31
724	Hybridization chain reactions on silica coated Qbeads for the colorimetric detection of multiplex microRNAs. <b>2017</b> , 53, 4954-4957	38

723	MicroRNA Detection and Target Identification. <b>2017</b> ,	1
722	MnO Nanotube-Based NanoSearchlight for Imaging of Multiple MicroRNAs in Live Cells. <b>2017</b> , 9, 23325-23332	25
721	SERS-active metal-dielectric nanostructures integrated in microfluidic devices for label-free quantitative detection of miRNA. <b>2017</b> , 205, 271-289	28
720	MiRNA Quantitation with Microelectrode Sensors Enabled by Enzymeless Electrochemical Signal Amplification. <b>2017</b> , 1580, 249-263	2
719	Droplet Microfluidic Device Fabrication and Use for Isothermal Amplification and Detection of MicroRNA. <b>2017</b> , 1580, 71-78	2
718	Double-loop hairpin probe and doxorubicin-loaded gold nanoparticles for the ultrasensitive electrochemical sensing of microRNA. <b>2017</b> , 96, 99-105	34
717	Colorimetric detection of microRNA based hybridization chain reaction for signal amplification and enzyme for visualization. <b>2017</b> , 528, 7-12	30
716	Sandwich-type microRNA biosensor based on magnesium oxide nanoflower and graphene oxide-gold nanoparticles hybrids coupling with enzyme signal amplification. <b>2017</b> , 243, 403-411	68
715	Robust Fuel Catalyzed DNA Molecular Machine for in Vivo MicroRNA Detection. <b>2017</b> , 1, 1700060	7
714	Ultra-sensitive fluorescent sensor for intracellular miRNA based on enzyme-free signal amplification with carbon nitride nanosheet as a carrier. <b>2017</b> , 32, 1411-1416	9
713	Multiplexed fluorescence detection of microRNAs based on novel distinguishable quantum dot signal probes by cycle amplification strategy. <b>2017</b> , 252, 1026-1034	22
712	Simultaneous Imaging of Endogenous Survivin mRNA and On-Demand Drug Release in Live Cells by Using a Mesoporous Silica Nanoquencher. <b>2017</b> , 13, 1700569	35
711	Detection of microRNA: A Point-of-Care Testing Method Based on a pH-Responsive and Highly Efficient Isothermal Amplification. <b>2017</b> , 89, 6631-6636	62
710	Nucleic Acid Amplification-Free Bioluminescent Detection of MicroRNAs with High Sensitivity and Accuracy Based on Controlled Target Degradation. <b>2017</b> , 89, 7077-7083	37
709	Fluorescent miRNA analysis enhanced by mesopore effects of polydopamine nanoquenchers. <b>2017</b> , 142, 2796-2804	18
708	Amplification-free detection of microRNAs via a rapid microarray-based sandwich assay. <b>2017</b> , 409, 3497-3505	21
707	Dual-mode electrochemical analysis of microRNA-21 using gold nanoparticle-decorated MoS nanosheet. <b>2017</b> , 94, 552-559	130
706	Recent advances in high-performance fluorescent and bioluminescent RNA imaging probes. <b>2017</b> , 46, 2824-2843	87

705	A DNAzyme Feedback Amplification Strategy for Biosensing. <b>2017</b> , 129, 6238-6242	33
704	A DNAzyme Feedback Amplification Strategy for Biosensing. <b>2017</b> , 56, 6142-6146	102
703	Bi-directional DNA Walking Machine and Its Application in an Enzyme-Free Electrochemiluminescence Biosensor for Sensitive Detection of MicroRNAs. <b>2017</b> , 89, 5036-5042	91
702	Electrochemiluminescence based determination of micro-RNA using target-guided assembly of gold nanoparticles on an electrode modified with Nafion, carbon nanotubes and polyvinylpyrrolidone. <b>2017</b> , 184, 1781-1789	18
701	A Carbon Nanotube Reporter of miRNA Hybridization Events In Vivo. <b>2017</b> , 1,	111
700	Multiplexed detection of microRNA biomarkers from tumor cells and tissues with a homogeneous nano-photon switch. <b>2017</b> , 247, 505-513	27
699	A three-way junction structure-based isothermal exponential amplification strategy for sensitive detection of 3'-terminal 2'-O-methylated plant microRNA. <b>2017</b> , 53, 1124-1127	25
698	Bioelectrochemistry of nucleic acids for early cancer diagnostics Analysis of DNA methylation and detection of microRNAs. <b>2017</b> , 36,	5
697	An isothermal electrochemical biosensor for the sensitive detection of microRNA based on a catalytic hairpin assembly and supersandwich amplification. <b>2017</b> , 142, 389-396	41
696	Multiplexed Electrochemical Detection of MiRNAs from Sera of Glioma Patients at Different Stages via the Novel Conjugates of Conducting Magnetic Microbeads and Diblock Oligonucleotide-Modified Gold Nanoparticles. <b>2017</b> , 89, 10834-10840	37
695	Sensitive and long-term monitoring of intracellular microRNAs using a non-integrating cytoplasmic RNA vector. <b>2017</b> , 7, 12673	9
694	Photoactive Hybrid AuNR-Pt@Ag <sub>2</sub> S Core-Satellite Nanostructures for Near-Infrared Quantitative Cell Imaging. <b>2017</b> , 27, 1703408	45
693	Multiplexed detection of microRNAs by a competitive DNA microarray-based resonance light scattering assay. <b>2017</b> , 142, 4529-4535	8
692	Ultrasensitive Ratiometric Homogeneous Electrochemical MicroRNA Biosensing via Target-Triggered Ru(III) Release and Redox Recycling. <b>2017</b> , 89, 12293-12298	86
691	Target-initiated labeling for the dual-amplified detection of multiple microRNAs. <b>2017</b> , 992, 76-84	10
690	Surface Plasmon Resonance Imaging Detection of Sub-femtomolar MicroRNA. <b>2017</b> , 89, 10071-10077	26
689	MicroRNA-Catalyzed Cancer Therapeutics Based on DNA-Programmed Nanoparticle Complex. <b>2017</b> , 9, 33624-33631	23
688	Circulating Exosomes in Cardiovascular Diseases. <b>2017</b> , 998, 255-269	29

687	MicroRNA detection by an amplification-free biosensor based on controllable solid-state electrochemiluminescence quenched by charge transfer. <b>2017</b> , 9, 6760-6768	12
686	On the performance of pre-microRNA detection algorithms. <b>2017</b> , 8, 330	34
685	Fluorometric determination of microRNA based on strand displacement amplification and rolling circle amplification. <b>2017</b> , 184, 4359-4365	30
684	Sensitive detection of microRNAs by duplex specific nuclease-assisted target recycling and pyrene excimer switching. <b>2017</b> , 53, 10596-10599	47
683	Analysis of the Gap Junction-dependent Transfer of miRNA with 3D-FRAP Microscopy. <b>2017</b> ,	3
682	Selectivity enhancements in gel-based DNA-nanoparticle assays by membrane-induced isotachopheresis: thermodynamics versus kinetics. <b>2017</b> , 38, 2592-2602	9
681	Genetically Encoded Fluorescent RNA Sensor for Ratiometric Imaging of MicroRNA in Living Tumor Cells. <b>2017</b> , 139, 9779-9782	130
680	An enzyme-free flow cytometric bead assay for the sensitive detection of microRNAs based on click nucleic acid ligation-mediated signal amplification. <b>2017</b> , 142, 2967-2973	14
679	Dual Quantification of MicroRNAs and Telomerase in Living Cells. <b>2017</b> , 139, 11752-11759	209
678	SERS-active Metal-dielectric Nanostructures Integrated in Microfluidic Devices for Ultra-sensitive Label-free miRNA Detection. <b>2017</b> , 27, 37-38	
677	Real-time qRT-PCR assay for the detection of miRNAs using bi-directional extension sequences. <b>2017</b> , 536, 32-35	10
676	DNAzyme Based Nanomachine for in Situ Detection of MicroRNA in Living Cells. <b>2017</b> , 2, 1847-1853	53
675	Ultrasensitive SPR detection of miRNA-93 using antibody-enhanced and enzymatic signal amplification. <b>2017</b> , 17, 1264-1270	6
674	Both plasma and tumor tissue miR-146a high expression correlates with prolonged overall survival of surgical patients with intrahepatic cholangiocarcinoma. <b>2017</b> , 96, e8267	8
673	Paperfluidic Chip Device for Small RNA Extraction, Amplification, and Multiplexed Analysis. <b>2017</b> , 9, 41151-41158	
672	Kinetically-enhanced DNA detection via multiple-pass exonuclease III-aided target recycling. <b>2017</b> , 142, 4782-4787	2
671	Faraday Cage-Type Electrochemiluminescence Biosensor Based on Multi-Functionalized Graphene Oxide for Ultrasensitive Detection of MicroRNA-21. <b>2017</b> , 164, B421-B426	11
670	Data mining and pathway analysis of glucose-6-phosphate dehydrogenase with natural language processing. <b>2017</b> , 16, 1900-1910	7

669	Exploratory biomarkers: Analytical approaches and their implications. <b>2017</b> , 4, 59-65	1
668	Programmable strand displacement-based magnetic separation for simultaneous amplified detection of multiplex microRNAs by chemiluminescence imaging array. <b>2017</b> , 98, 234-239	46
667	miR-335 negatively regulates osteosarcoma stem cell-like properties by targeting POU5F1. <b>2017</b> , 17, 29	25
666	Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA. <b>2017</b> , 53, 8231-8234	63
665	MicroRNA-182-5p Regulates Nerve Injury-induced Nociceptive Hypersensitivity by Targeting Ephrin Type-b Receptor 1. <b>2017</b> , 126, 967-977	17
664	Multiplex detection of microRNAs by combining molecular beacon probes with T7 exonuclease-assisted cyclic amplification reaction. <b>2017</b> , 409, 107-114	12
663	Multi-Amplified Sensing of MicroRNA by a Small DNA Fragment-Driven Enzymatic Cascade Reaction. <b>2017</b> , 2, 111-118	27
662	MicroRNA-503-5p inhibits stretch-induced osteogenic differentiation and bone formation. <b>2017</b> , 41, 112-123	38
661	Absolute quantification of microRNAs in green tea ( <i>Camellia sinensis</i> ) by stem-loop quantitative real-time PCR. <b>2017</b> , 97, 2975-2981	8
660	Sensitive and rapid detection of microRNAs using hairpin probes-mediated exponential isothermal amplification. <b>2017</b> , 89, 710-714	57
659	Au nanoparticles/hollow molybdenum disulfide microcubes based biosensor for microRNA-21 detection coupled with duplex-specific nuclease and enzyme signal amplification. <b>2017</b> , 89, 989-997	134
658	High-throughput sequencing to identify microRNA signatures during hepatic differentiation of human umbilical cord Wharton's jelly-derived mesenchymal stem cells. <b>2017</b> , 47, 910-927	4
657	Self-primed isothermal amplification for genomic DNA detection of human papillomavirus. <b>2017</b> , 90, 258-263	18
656	Interferometric detection of microRNAs using a capillary optofluidic sensor. <b>2017</b> , 242, 999-1006	35
655	Simultaneous detection of multiple targets involved in the PI3K/AKT pathway for investigating cellular migration and invasion with a multicolor fluorescent nanoprobe. <b>2016</b> , 53, 356-359	46
654	The Emerging Role of the Hippo Pathway in Lung Cancers: Clinical Implications. <b>2017</b> , 18, 1880-1892	7
653	Circulating microRNA-34 family low expression correlates with poor prognosis in patients with non-small cell lung cancer. <b>2017</b> , 9, 3735-3746	29
652	Polydopamine-assisted versatile modification of a nucleic acid probe for intracellular microRNA imaging and enhanced photothermal therapy.. <b>2018</b> , 8, 6781-6788	6

651	High-specific microRNA detection based on dual-recycling cascade reaction and nicking endonuclease signal amplification. <b>2018</b> , 264, 169-176	10
650	Colorimetric detection of microRNA based on DNAzyme and nuclease-assisted catalytic hairpin assembly signal amplification. <b>2018</b> , 38, 13-18	22
649	Ultrasensitive Faraday cage-type electrochemiluminescence assay for femtomolar miRNA-141 via graphene oxide and hybridization chain reaction-assisted cascade amplification. <b>2018</b> , 109, 13-19	40
648	Recent advances in microRNA detection. <b>2018</b> , 143, 1758-1774	95
647	circ-SHKBP1 Regulates the Angiogenesis of U87 Glioma-Exposed Endothelial Cells through miR-544a/FOXP1 and miR-379/FOXP2 Pathways. <b>2018</b> , 10, 331-348	70
646	Nanomaterials for Cancer Precision Medicine. <b>2018</b> , 30, e1705660	92
645	MicroRNA-224 suppresses osteoblast differentiation by inhibiting SMAD4. <b>2018</b> , 233, 6929-6937	17
644	Emerging landscape of circular RNAs in lung cancer. <b>2018</b> , 427, 18-27	74
643	Label-free and sensitive microRNA detection based on a target recycling amplification-integrated superlong poly(thymine)-hosted copper nanoparticle strategy. <b>2018</b> , 1010, 54-61	29
642	A simple and non-amplification platform for femtomolar DNA and microRNA detection by combining automatic gold nanoparticle enumeration with target-induced strand-displacement. <b>2018</b> , 105, 137-142	18
641	Double-Stranded RNA-Specific Templated Reaction with Triplex Forming PNA. <b>2018</b> , 101, e1700295	25
640	Highly specific real-time qualification of diverse microRNAs in tissue and serum using universal molecular beacon. <b>2018</b> , 262, 153-161	3
639	miRNA Analysis. <b>2018</b> , 67-92	
638	Direct chemiluminescence detection of circulating microRNAs in serum samples using a single-strand specific nuclease-distinguishing nucleic acid hybrid system. <b>2018</b> , 54, 1909-1912	13
637	A Highly Sensitive Strategy for Fluorescence Imaging of MicroRNA in Living Cells and in Vivo Based on Graphene Oxide-Enhanced Signal Molecules Quenching of Molecular Beacon. <b>2018</b> , 10, 6982-6990	51
636	Efficient dual-amplification system for G-quadruplex-based non-enzymatic fluorescence detection of microRNA. <b>2018</b> , 263, 87-93	12
635	Chitosan/Nitrogen Doped Reduced Graphene Oxide Modified Biosensor for Impedimetric Detection of microRNA. <b>2018</b> , 30, 551-560	18
634	Photocaged Nanoparticle Sensor for Sensitive MicroRNA Imaging in Living Cancer Cells with Temporal Control. <b>2018</b> , 3, 494-503	23



633	Convenient Monitoring System of Intracellular microRNA Expression during Adipogenesis via Mechanical Stimulus-Induced Exocytosis of Lipovesicular miRNA Beacon. <b>2018</b> , 7, 1701019	5
632	Sensitive and specific detection of microRNAs based on two-stage amplification reaction using molecular beacons as turn-on probes. <b>2018</b> , 179, 685-692	9
631	High circulating miR-18a, miR-20a, and miR-92a expression correlates with poor prognosis in patients with non-small cell lung cancer. <b>2018</b> , 7, 21-31	47
630	Simple and Sensitive Quantification of MicroRNAs via PS@Au Microspheres-Based DNA Probes and DSN-Assisted Signal Amplification Platform. <b>2018</b> , 10, 3324-3332	43
629	MiR-30a-5p confers cisplatin resistance by regulating IGF1R expression in melanoma cells. <b>2018</b> , 18, 404	22
628	PTEN/PTENP1: 'Regulating the regulator of RTK-dependent PI3K/Akt signalling', new targets for cancer therapy. <b>2018</b> , 17, 37	103
627	Visual detection of miRNA using peroxidase-like catalytic activity of DNA-CuNCs and methylene blue as indicator. <b>2018</b> , 483, 119-125	21
626	Enzyme-free isothermal target-recycled amplification combined with PAGE for direct detection of microRNA-21. <b>2018</b> , 550, 117-122	4
625	miR-9 upregulation leads to inhibition of erythropoiesis by repressing FoxO3. <b>2018</b> , 8, 6519	12
624	Reconstruction of structure and function in tissue engineering of solid organs: Toward simulation of natural development based on decellularization. <b>2018</b> , 12, 1432-1447	26
623	Click Chemical Ligation-Initiated On-Bead DNA Polymerization for the Sensitive Flow Cytometric Detection of 3'-Terminal 2'-O-Methylated Plant MicroRNA. <b>2018</b> , 90, 5390-5397	14
622	Lateral Flow Test for Visual Detection of Multiple MicroRNAs. <b>2018</b> , 264, 320-326	47
621	Spiny Nanorod and Upconversion Nanoparticle Satellite Assemblies for Ultrasensitive Detection of Messenger RNA in Living Cells. <b>2018</b> , 90, 5414-5421	44
620	A computational biology approach of a genome-wide screen connected miRNAs to obesity and type 2 diabetes. <b>2018</b> , 11, 145-159	33
619	Cascade Amplification-Mediated In Situ Hot-Spot Assembly for MicroRNA Detection and Molecular Logic Gate Operations. <b>2018</b> , 90, 4544-4551	80
618	Targeting epigenetic pathway with gold nanoparticles for acute myeloid leukemia therapy. <b>2018</b> , 167, 80-90	58
617	Dual-input molecular logic circuits for sensitive and simultaneous sensing of multiple microRNAs from tumor cells. <b>2018</b> , 264, 202-207	11
616	Computational Approaches and Related Tools to Identify MicroRNAs in a Species: A Bird's Eye View. <b>2018</b> , 10, 616-635	10

615	Ultrasensitive detection of cancer biomarker microRNA by amplification of fluorescence of lanthanide nanoprobcs. <b>2018</b> , 11, 264-273	41
614	A Highly Predictive Model for Diagnosis of Colorectal Neoplasms Using Plasma MicroRNA: Improving Specificity and Sensitivity. <b>2018</b> , 267, e57-e58	1
613	MicroRNAs: Roles in Regulating Neuroinflammation. <b>2018</b> , 24, 221-245	118
612	Gold-loaded nanoporous ferric oxide nanocubes for electrocatalytic detection of microRNA at attomolar level. <b>2018</b> , 101, 275-281	60
611	In situ biosensor for detection miRNA in living cells based on carbon nitride nanosheets with catalytic hairpin assembly amplification. <b>2018</b> , 33, 190-195	14
610	Near-infrared triggered strand displacement amplification for MicroRNA quantitative detection in single living cells. <b>2018</b> , 9, 1753-1759	64
609	Functional nanomaterials and nanoprobcs for amplified biosensing. <b>2018</b> , 10, 51-71	27
608	Highly specific real-time quantification of diverse microRNAs in human samples using universal primer set frame. <b>2018</b> , 543, 71-78	7
607	Multiplexed Detection of Attomoles of Nucleic Acids Using Fluorescent Nanoparticle Counting Platform. <b>2018</b> , 90, 1376-1383	28
606	Rattle-type Au@CuS hollow mesoporous nanocrystals with enhanced photothermal efficiency for intracellular oncogenic microRNA detection and chemo-photothermal therapy. <b>2018</b> , 158, 23-33	45
605	Aptamer-functionalized carbon nanomaterials electrochemical sensors for detecting cancer relevant biomolecules. <b>2018</b> , 129, 380-395	100
604	One-Step in Situ Detection of miRNA-21 Expression in Single Cancer Cells Based on Biofunctionalized MoS Nanosheets. <b>2018</b> , 10, 350-360	69
603	RCA-enhanced multifunctional molecule beacon-based strand-displacement amplification for sensitive microRNA detection. <b>2018</b> , 258, 470-477	39
602	Imaging multiple microRNAs in living cells using ATP self-powered strand-displacement cascade amplification. <b>2018</b> , 9, 1184-1190	52
601	Isothermal Amplification on a Structure-Switchable Symmetric Toehold Dumbbell-Template: A Strategy Enabling MicroRNA Analysis at the Single-Cell Level with Ultrahigh Specificity and Accuracy. <b>2018</b> , 90, 859-865	25
600	MoS <sub>2</sub> -based sensor for the detection of miRNA in serum samples related to breast cancer. <b>2018</b> , 10, 230-236	19
599	Ratiometric electrochemical assay for sensitive detecting microRNA based on dual-amplification mechanism of duplex-specific nuclease and hybridization chain reaction. <b>2018</b> , 102, 211-216	43
598	microRNA biosensors: Opportunities and challenges among conventional and commercially available techniques. <b>2018</b> , 99, 525-546	150

597	Gold nanoparticles superlattices assembly for electrochemical biosensor detection of microRNA-21. <b>2018</b> , 99, 564-570	94
596	In situ enhanced electrochemiluminescence based on co-reactant self-generated for sensitive detection of microRNA. <b>2018</b> , 255, 35-41	13
595	Recent progress in live cell mRNA/microRNA imaging probes based on smart and versatile nanomaterials. <b>2018</b> , 6, 7773-7793	18
594	Correlation between hydrogen yield and product distribution in algae conversion through an isopropanol/water system.. <b>2018</b> , 8, 38614-38620	1
593	A novel information diffusion method based on network consistency for identifying disease related microRNAs.. <b>2018</b> , 8, 36675-36690	11
592	A glucose/O fuel cell-based self-powered biosensor for probing a drug delivery model with self-diagnosis and self-evaluation. <b>2018</b> , 9, 8482-8491	28
591	Imaging of intracellular-specific microRNA in tumor cells by symmetric exponential amplification-assisted fluorescence in situ hybridization. <b>2018</b> , 54, 13981-13984	11
590	Synergic TiO photocatalysis and guanine photoreduction for silver deposition amplification: an ultrasensitive and high-throughput visualized colorimetric analysis strategy for anthrax DNAs in blood using a wettable microwells array. <b>2018</b> , 6, 7503-7510	3
589	An Enzyme-Free MicroRNA Assay Based On Fluorescence Counting of Click Chemical Ligation-Illuminated Magnetic Nanoparticles with Total Internal Reflection Fluorescence Microscopy. <b>2018</b> , 3, 2667-2674	19
588	Bioinspired DNA-Inorganic Hybrid Nanoflowers Combined with a Personal Glucose Meter for Onsite Detection of miRNA. <b>2018</b> , 10, 42050-42057	39
587	miR-1307-3p suppresses the chondrogenic differentiation of human adipose-derived stem cells by targeting BMP2. <b>2018</b> , 42, 3115-3124	6
586	Application of atomic force microscopy in cancer research. <b>2018</b> , 16, 102	65
585	Separation and determination of microRNAs by high-speed capillary sieving electrophoresis. <b>2018</b> , 41, 3925-3931	3
584	Ultrasensitive Detection of Serum MicroRNA Using Branched DNA-Based SERS Platform Combining Simultaneous Detection of $\alpha$ -Fetoprotein for Early Diagnosis of Liver Cancer. <b>2018</b> , 10, 34869-34877	37
583	miR-126: An indicator of poor prognosis and recurrence in histologically lymph node-negative gastric cancer. <b>2018</b> , 23, 437-445	4
582	Multiple MicroRNA Quantification Based on Acoustic Levitation of Single Microspheres after One-Pot Sandwich Interparticle Hybridizations. <b>2018</b> , 90, 13729-13735	8
581	Branched DNA Junction-Enhanced Isothermal Circular Strand Displacement Polymerization for Intracellular Imaging of MicroRNAs. <b>2018</b> , 90, 13891-13899	21
580	[Epigenetic effects affecting etoposide distribution and metabolism in the human body]. <b>2018</b> , 159, 1295-1302	0

579	Super-resolution Geometric Barcoding for Multiplexed miRNA Profiling. <b>2018</b> , 130, 14271-14275	2
578	Super-resolution Geometric Barcoding for Multiplexed miRNA Profiling. <b>2018</b> , 57, 14075-14079	16
577	Microwave-Assisted Facile Synthesis of Eu(OH) Nanoclusters with Pro-Proliferative Activity Mediated by miR-199a-3p. <b>2018</b> , 10, 31044-31053	3
576	A facile DNA strand displacement reaction sensing strategy of electrochemical biosensor based on N-carboxymethyl chitosan/molybdenum carbide nanocomposite for microRNA-21 detection. <b>2018</b> , 122, 43-50	45
575	A fishhook probe-based rolling circle amplification (FP-RCA) assay for efficient isolation and detection of microRNA without total RNA extraction. <b>2018</b> , 143, 5046-5053	15
574	Design of oligonucleotide-capped mesoporous silica nanoparticles for the detection of miRNA-145 by duplex and triplex formation. <b>2018</b> , 277, 598-603	12
573	Highly sensitive and multiplexed miRNA analysis based on digitally encoded silica microparticles coupled with RCA-based cascade amplification. <b>2018</b> , 143, 5137-5144	8
572	Plasma miRNA-223 correlates with risk, inflammatory markers as well as prognosis in sepsis patients. <b>2018</b> , 97, e11352	19
571	Integration of T7 exonuclease-triggered amplification and cationic conjugated polymer biosensing for highly sensitive detection of microRNA. <b>2018</b> , 190, 475-479	6
570	Downregulation of ARID4A and ARID4B promote tumor progression and directly regulated by microRNA-30d in patient with prostate cancer. <b>2018</b> , 119, 7245-7255	5
569	An electrochemical biosensor for sensitive detection of microRNAs based on target-recycled non-enzymatic amplification. <b>2018</b> , 271, 15-23	18
568	Improving the Signal-to-Background Ratio during Catalytic Hairpin Assembly through Both-End-Blocked DNAzyme. <b>2018</b> , 3, 1190-1195	19
567	High-Throughput and Sensitive Fluorimetric Strategy for MicroRNAs in Blood Using Wettable Microwells Array and Silver Nanoclusters with Red Fluorescence Enhanced by Metal Organic Frameworks. <b>2018</b> , 10, 23647-23656	37
566	miR-449c inhibits migration and invasion of gastric cancer cells by targeting PFKFB3. <b>2018</b> , 16, 417-424	9
565	Visualizing miR-155 To Monitor Breast Tumorigenesis and Response to Chemotherapeutic Drugs by a Self-Assembled Photoacoustic Nanoprobe. <b>2018</b> , 90, 9125-9131	23
564	Target-Triggered Catalytic Hairpin Assembly-Induced Core-Satellite Nanostructures for High-Sensitive "Off-to-On" SERS Detection of Intracellular MicroRNA. <b>2018</b> , 90, 10591-10599	57
563	Catalytic hairpin assembly gel assay for multiple and sensitive microRNA detection. <b>2018</b> , 8, 2646-2656	25
562	Multiplex microRNA imaging in living cells using DNA-capped-Au assembled hydrogels. <b>2018</b> , 9, 7419-7425	54

561	Circulating miR-126 and miR-130a levels correlate with lower disease risk, disease severity, and reduced inflammatory cytokine levels in acute ischemic stroke patients. <b>2018</b> , 39, 1757-1765	28
560	MicroRNA-21 in the Pathogenesis of Traumatic Brain Injury. <b>2018</b> , 43, 1863-1868	15
559	Non-Coding RNA Mediated Regulation of Allogeneic T Cell Responses After Hematopoietic Transplantation. <b>2018</b> , 9, 1110	7
558	MicroRNA Signature of Traumatic Brain Injury: From the Biomarker Discovery to the Point-of-Care. <b>2018</b> , 9, 429	37
557	Amplified Tandem Spinach-Based Aptamer Transcription Enables Low Background miRNA Detection. <b>2018</b> , 90, 10001-10008	72
556	Truly Immobilization-Free Diffusivity-Mediated Photoelectrochemical Biosensing Strategy for Facile and Highly Sensitive MicroRNA Assay. <b>2018</b> , 90, 9591-9597	129
555	miR-539 enhances chemosensitivity to cisplatin in non-small cell lung cancer by targeting DCLK1. <b>2018</b> , 106, 1072-1081	32
554	Colorimetric and energy transfer based fluorometric turn-on method for determination of microRNA using silver nanoclusters and gold nanoparticles. <b>2018</b> , 185, 286	33
553	Existence of Diverse Modifications in Small-RNA Species Composed of 16-28 Nucleotides. <b>2018</b> , 24, 9949-9956	20
552	Diagnosis, monitoring and prevention of exposure-related non-communicable diseases in the living and working environment: DiMoPEX-project is designed to determine the impacts of environmental exposure on human health. <b>2018</b> , 13, 6	22
551	Feasibility study for combination of field-flow fractionation (FFF)-based separation of size-coded particle probes with amplified surface enhanced Raman scattering (SERS) tagging for simultaneous detection of multiple miRNAs. <b>2018</b> , 1556, 97-102	8
550	Boronic Acid Functionalized Au Nanoparticles for Selective MicroRNA Signal Amplification in Fiber-Optic Surface Plasmon Resonance Sensing System. <b>2018</b> , 3, 929-935	43
549	Label-free ultrasensitive detection of breast cancer miRNA-21 biomarker employing electrochemical nano-genosensor based on sandwiched AgNPs in PANI and N-doped graphene. <b>2018</b> , 120, 129-136	78
548	An ultrasensitive electrochemiluminescence biosensor for multiple detection of microRNAs based on a novel dual circuit catalyzed hairpin assembly. <b>2018</b> , 54, 10148-10151	19
547	Bio-cleavable nanoprobe for target-triggered catalytic hairpin assembly amplification detection of microRNAs in live cancer cells. <b>2018</b> , 10, 17623-17628	38
546	MicroRNA-21-5p mediates TGF- $\beta$ -regulated fibrogenic activation of spinal fibroblasts and the formation of fibrotic scars after spinal cord injury. <b>2018</b> , 14, 178-188	36
545	Hybridization-initiated exonuclease resistance strategy for simultaneous detection of multiple microRNAs. <b>2018</b> , 190, 248-254	9
544	Framework Nucleic Acid-Mediated Pull-Down MicroRNA Detection with Hybridization Chain Reaction Amplification.. <b>2018</b> , 1, 859-864	18

543	Serum miR-126 level combined with multi- detector computed tomography in the preoperative prediction of lymph node metastasis of gastric cancer. <b>2018</b> , 22, 773-780	5
542	Target-Induced Catalytic Assembly of Y-Shaped DNA and Its Application for In Situ Imaging of MicroRNAs. <b>2018</b> , 57, 9739-9743	72
541	Target-Induced Catalytic Assembly of Y-Shaped DNA and Its Application for In Situ Imaging of MicroRNAs. <b>2018</b> , 130, 9887-9891	7
540	Functionalized gold nanostructures: promising gene delivery vehicles in cancer treatment.. <b>2019</b> , 9, 23894-23907	7
539	Accurate detection of intracellular microRNAs using functional MoC quantum dots nanoprobe. <b>2019</b> , 55, 10615-10618	5
538	Valency-Controlled Molecular Spherical Nucleic Acids with Tunable Biosensing Performances. <b>2019</b> , 91, 11374-11379	10
537	High-throughput and ultra-sensitive single-cell profiling of multiple microRNAs and identification of human cancer. <b>2019</b> , 55, 10404-10407	16
536	Biosensors for early diagnosis of pancreatic cancer: a review. <b>2019</b> , 213, 67-89	40
535	Integrated analyses of microRNA-29 family and the related combination biomarkers demonstrate their widespread influence on risk, recurrence, metastasis and survival outcome in colorectal cancer. <b>2019</b> , 19, 181	10
534	Graphene oxide-based fluorometric determination of microRNA-141 using rolling circle amplification and exonuclease III-aided recycling amplification. <b>2019</b> , 186, 531	12
533	Fluorescence hydrogel array based on interfacial cation exchange amplification for highly sensitive microRNA detection. <b>2019</b> , 1080, 206-214	12
532	MicroRNA Triggered DNA "Nano Wheel" for Visualizing Intracellular microRNA via Localized DNA Cascade Reaction. <b>2019</b> , 91, 9828-9835	31
531	Non-coding RNAs in regulating gastric cancer metastasis. <b>2019</b> , 496, 125-133	15
530	Genome-Wide Identification of Putative MicroRNAs in Cassava ( Crantz) and Their Functional Landscape in Cellular Regulation. <b>2019</b> , 2019, 2019846	6
529	Mesoporous Silica Containers and Programmed Catalytic Hairpin Assembly/Hybridization Chain Reaction Based Electrochemical Sensing Platform for MicroRNA Ultrasensitive Detection with Low Background. <b>2019</b> , 91, 10672-10678	39
528	Correlation of microRNA expression profile with clinical response to tumor necrosis factor inhibitor in treating rheumatoid arthritis patients: A prospective cohort study. <b>2019</b> , 33, e22953	15
527	Electrochemical-based biosensors for microRNA detection: Nanotechnology comes into view. <b>2019</b> , 581, 113349	66
526	A label-free colorimetric detection of microRNA via G-quadruplex-based signal quenching strategy. <b>2019</b> , 1079, 207-211	16

525	Fiber Resonance Energy Transfer-Based Soft Nanoballs for Specific and Amplified Detection of MicroRNAs. <b>2019</b> , 91, 11023-11029	15
524	Updates on the Current Technologies for microRNA Profiling. <b>2020</b> , 9, 17-24	10
523	MicroRNA-195 as a prognostic factor for cancer survival outcome in China: a meta-analysis. <b>2019</b> , 11, 7967-7979	2
522	miR-190-5p in human diseases. <b>2019</b> , 19, 257	19
521	MicroRNA Applications in Marine Biology. <b>2019</b> , 5, 167-175	2
520	Catalytic Self-Assembly of Quantum-Dot-Based MicroRNA Nanosensor Directed by Toehold-Mediated Strand Displacement Cascade. <b>2019</b> , 19, 6370-6376	60
519	Bioinspired photonic barcodes for multiplexed target cycling and hybridization chain reaction. <b>2019</b> , 143, 111629	12
518	Increased plasma levels of miR-124-3p, miR-125b-5p and miR-192-5p are associated with outcomes in acute ischaemic stroke patients receiving thrombolysis. <b>2019</b> , 289, 36-43	18
517	Ratiometric SERS biosensor for sensitive and reproducible detection of microRNA based on mismatched catalytic hairpin assembly. <b>2019</b> , 143, 111619	45
516	Plasmon Coupling-Enhanced Raman Sensing Platform Integrated with Exonuclease-Assisted Target Recycling Amplification for Ultrasensitive and Selective Detection of microRNA-21. <b>2019</b> , 91, 12298-12306	39
515	Fluorometric determination of microRNA by using target-triggered cascade signal amplification and DNA-templated silver nanoclusters. <b>2019</b> , 186, 669	11
514	Sensing of circulating cancer biomarkers with metal nanoparticles. <b>2019</b> , 11, 22152-22171	41
513	Nanolantern-Based DNA Probe and Signal Amplifier for Tumor-Related Biomarker Detection in Living Cells. <b>2019</b> , 91, 13165-13173	21
512	Coupling of DNA Circuit and Templated Reactions for Quadratic Amplification and Release of Functional Molecules. <b>2019</b> , 141, 16288-16295	23
511	Catalytic hairpin assembly induced dual signal enhancement for rapid detection of miRNA using fluorescence light-up silver nanocluster. <b>2019</b> , 1084, 93-98	14
510	Purification and Identification of miRNA Target Sites in Genome Using DNA Affinity Precipitation. <b>2019</b> , 10, 778	6
509	Controlled disassembly of a DNA tetrahedron using strand displacement. <b>2019</b> , 1, 969-972	8
508	Intracellular low-abundance microRNA imaging by a NIR-assisted entropy-driven DNA system. <b>2019</b> , 4, 472-479	13

507	Sensitively distinguishing intracellular precursor and mature microRNA abundance. <b>2019</b> , 10, 1709-1715	25
506	Diabetic nephropathy: The regulatory interplay between epigenetics and microRNAs. <b>2019</b> , 141, 574-585	23
505	MicroRNA Detection Specificity: Recent Advances and Future Perspective. <b>2019</b> , 91, 3179-3186	73
504	MiR-5571-3p and miR-135b-5p, derived from analyses of microRNA profile sequencing, correlate with increased disease risk and activity of rheumatoid arthritis. <b>2019</b> , 38, 1753-1765	12
503	Long noncoding RNAs: from genomic junk to rising stars in the early detection of cancer. <b>2019</b> , 411, 4265-4275	22
502	Efficient and Reliable MicroRNA Imaging in Living Cells via a FRET-Based Localized Hairpin-DNA Cascade Amplifier. <b>2019</b> , 91, 3675-3680	56
501	A label-free, ultra-highly sensitive and multiplexed SERS nanoplasmonic biosensor for miRNA detection using a head-flocked gold nanopillar. <b>2019</b> , 144, 1768-1776	42
500	Exonuclease-assisted target recycling for ultrasensitive electrochemical detection of microRNA at vertically aligned carbon nanotubes. <b>2019</b> , 11, 11262-11269	25
499	Functional DNA hexahedron for real-time detection of multiple microRNAs in living cells. <b>2019</b> , 1078, 176-181	7
498	Biomaterialized Metal-Organic Framework Nanoparticles Enable Enzymatic Rolling Circle Amplification in Living Cells for Ultrasensitive MicroRNA Imaging. <b>2019</b> , 91, 9049-9057	49
497	A SERS approach for rapid detection of microRNA-17 in the picomolar range. <b>2019</b> , 144, 4033-4044	12
496	A triple signal amplification method for chemiluminescent detection of the cancer marker microRNA-21. <b>2019</b> , 186, 410	10
495	Intracellular fluorometric determination of microRNA-21 by using a switch-on nanoprobe composed of carbon nanotubes and gold nanoclusters. <b>2019</b> , 186, 447	8
494	A three-dimensional DNA walking machine for the ultrasensitive dual-modal detection of miRNA using a fluorometer and personal glucose meter. <b>2019</b> , 11, 11279-11284	26
493	Sensitive Plasmonic Detection of miR-10b in Biological Samples Using Enzyme-Assisted Target Recycling and Developed LSPR Probe. <b>2019</b> , 11, 18923-18929	25
492	A versatile dynamic light scattering strategy for the sensitive detection of microRNAs based on plasmonic core-satellites nanoassembly coupled with strand displacement reaction. <b>2019</b> , 138, 111319	10
491	AcMNPV-miR-3 is a miRNA encoded by Autographa californica nucleopolyhedrovirus and regulates the viral infection by targeting ac101. <b>2019</b> , 267, 49-58	6
490	Engineering of ATP-Powered Photosensitizer for Targeted Recycling Activatable Imaging of MicroRNA and Controllable Cascade Amplification Photodynamic Therapy. <b>2019</b> , 91, 7879-7886	19



489	Advances in DNA/RNA detection using nanotechnology. <b>2019</b> , 91, 31-98	10
488	Molecular signature of selective microRNAs in <i>Cyprinus carpio</i> (Linnaeus 1758):a computational approach. <b>2019</b> , 1,	
487	Amine-functionalized graphene as an effective electrochemical platform toward easily miRNA hybridization detection. <b>2019</b> , 143, 191-198	17
486	Fluorescent sensor for detection of miR-141 based on target-induced fluorescence enhancement and PicoGreen. <b>2019</b> , 202, 349-353	11
485	A microRNA-triggered self-powered DNAzyme walker operating in living cells. <b>2019</b> , 136, 31-37	32
484	New Biomarkers for Atherothrombosis in Antiphospholipid Syndrome: Genomics and Epigenetics Approaches. <b>2019</b> , 10, 764	16
483	Nanoscale imaging reveals miRNA-mediated control of functional states of dendritic spines. <b>2019</b> , 116, 9616-9621	16
482	Surface-Enhanced Raman Scattering-Fluorescence Dual-Mode Nanosensors for Quantitative Detection of Cytochrome c in Living Cells. <b>2019</b> , 91, 6600-6607	33
481	Sensitive electrochemical biosensor for MicroRNAs based on duplex-specific nuclease-assisted target recycling followed with gold nanoparticles and enzymatic signal amplification. <b>2019</b> , 1064, 33-39	38
480	InSilico analysis identified miRNA-based therapeutic agents against glioblastoma multiforme. <b>2019</b> , 41, 2194-2208	15
479	Cascade Transcription Amplification of RNA Aptamer for Ultrasensitive MicroRNA Detection. <b>2019</b> , 91, 5295-5302	52
478	Transient manipulation of the expression level of selected growth rate correlating microRNAs does not increase growth rate in CHO-K1 cells. <b>2019</b> , 295, 63-70	1
477	Cellular microRNA detection with miRacles: microRNA- activated conditional looping of engineered switches. <b>2019</b> , 5, eaau9443	40
476	High-Fidelity and Rapid Quantification of miRNA Combining crRNA Programmability and CRISPR/Cas13a trans-Cleavage Activity. <b>2019</b> , 91, 5278-5285	67
475	A Universal Paper-Based Electrochemical Sensor for Zero-Background Assay of Diverse Biomarkers. <b>2019</b> , 11, 15381-15388	59
474	A T7 exonuclease-RCA dual amplification system for high-sensitivity and high-selectivity analysis of microRNA. <b>2019</b> , 11, 2450-2455	3
473	Dual-signal-amplified electrochemiluminescence biosensor for microRNA detection by coupling cyclic enzyme with CdTe QDs aggregate as luminophor. <b>2019</b> , 134, 109-116	24
472	AuNPs-DNAzyme molecular motor biosensor mediated by neighborhood click chemistry reactions for the ultrasensitive detection of microRNA-155. <b>2019</b> , 290, 503-511	16

471	Cancer Cell Membrane Camouflaged Nanoprobe for Catalytic Ratiometric Photoacoustic Imaging of MicroRNA in Living Mice. <b>2019</b> , 31, e1807888	61
470	Dual-signal amplification strategy for miRNA sensing with high sensitivity and selectivity by use of single Au nanowire electrodes. <b>2019</b> , 131, 88-94	14
469	Fluorometric determination of microRNA-122 by using ExoIII-aided recycling amplification and polythymine induced formation of copper nanoparticles. <b>2019</b> , 186, 133	14
468	Quantitative zeptomolar imaging of miRNA cancer markers with nanoparticle assemblies. <b>2019</b> , 116, 3391-3400	52
467	Label-Free MicroRNA Optical Biosensors. <b>2019</b> , 9,	20
466	Transcriptome analysis of miRNA and mRNA in the livers of pigs with highly diverged backfat thickness. <b>2019</b> , 9, 16740	8
465	The Relationship Between the miRNA Sequence and Disease May be Revealed by Focusing on Hydrogen Bonding Sites in RNA-RNA Interactions. <b>2019</b> , 8,	0
464	A gold-nanodot-decorated hollow carbon nanosphere based nanoplatforM for intracellular miRNA imaging in colorectal cancer cells. <b>2019</b> , 55, 12352-12355	6
463	miR-122 direct detection in human serum by time-gated fluorescence imaging. <b>2019</b> , 55, 14958-14961	7
462	A luminescent microRNA nanoprobe based on the target-triggered release of an iridium(III)-solvent complex from mesoporous silica nanoparticles. <b>2019</b> , 186, 841	0
461	Y-Shaped Backbone-Rigidified Triangular DNA Scaffold-Directed Stepwise Movement of a DNzyme Walker for Sensitive MicroRNA Imaging within Living Cells. <b>2019</b> , 91, 15678-15685	31
460	LSGSP: a novel miRNA-disease association prediction model using a Laplacian score of the graphs and space projection federated method.. <b>2019</b> , 9, 29747-29759	3
459	A label-free aptamer-based biosensor for microRNA detection by the RNA-regulated fluorescence of malachite green.. <b>2019</b> , 9, 32906-32910	4
458	g-CN nanosheet-based ratiometric fluorescent probes for the amplification and imaging of miRNA in living cells. <b>2019</b> , 7, 7566-7573	23
457	miR-98-5p Alleviated Epithelial-to-Mesenchymal Transition and Renal Fibrosis via Targeting Hmga2 in Diabetic Nephropathy. <b>2019</b> , 2019, 4946181	23
456	Decreased expression of miR-410-3p correlates with poor prognosis and tumorigenesis in human glioma. <b>2019</b> , 11, 10581-10592	2
455	An enzyme-free sensitive electrochemical microRNA-16 biosensor by applying a multiple signal amplification strategy based on Au/PPy-rGO nanocomposite as a substrate. <b>2019</b> , 196, 329-336	35
454	Rolling circle extension-actuated loop-mediated isothermal amplification (RCA-LAMP) for ultrasensitive detection of microRNAs. <b>2019</b> , 128, 17-22	50

453	Label-Free and Multiplexed Quantification of microRNAs by Mass Spectrometry Based on Duplex-Specific-Nuclease-Assisted Recycling Amplification. <b>2019</b> , 91, 2120-2127	21
452	Electrogenerated Chemiluminescence Biosensor with a Tripod Probe for the Highly Sensitive Detection of MicroRNA. <b>2019</b> , 91, 1452-1459	32
451	Preliminary study on the effect of nucleolin specific aptamer-miRNA let-7d chimera on Janus kinase-2 expression level and activity in gastric cancer (MKN-45) cells. <b>2019</b> , 46, 207-215	4
450	Identification and expression of white spot syndrome virus-encoded microRNAs in infected <i>Penaeus monodon</i> . <b>2019</b> , 503, 436-445	2
449	Photoelectrochemical biosensor for microRNA detection based on a MoS <sub>2</sub> /g-CN/black TiO <sub>2</sub> heterojunction with Histostar@AuNPs for signal amplification. <b>2019</b> , 128, 137-143	85
448	Computational Prediction of Functional MicroRNA-mRNA Interactions. <b>2019</b> , 1912, 175-196	14
447	Identification and validation of plant miRNA from NGS data-an experimental approach. <b>2019</b> , 18, 13-22	4
446	MicroRNA sensors based on gold nanoparticles. <b>2019</b> , 411, 1807-1824	31
445	Self-assembled poly-HRP dual signal amplification strategy for high-sensitive detection of circulating miR-142-3p in human serum. <b>2019</b> , 279, 440-446	10
444	Direct visualization of MicroRNA in vivo via an intelligent MnO <sub>2</sub> -carried catalytic DNA machine. <b>2019</b> , 283, 124-129	5
443	Novel-miR-4885 Promotes Migration and Invasion of Esophageal Cancer Cells Through Targeting CTNNA2. <b>2019</b> , 38, 151-161	4
442	Logic Sensing of MicroRNA in Living Cells Using DNA-Programmed Nanoparticle Network with High Signal Gain. <b>2019</b> , 4, 250-256	20
441	Extra-species grafting induces epigenetic and metabolic changes accompanied by alterations in fruit size and shape of <i>Cucurbita pepo</i> L.. <b>2019</b> , 87, 93-108	11
440	Low microRNA-139 expression associates with poor prognosis in patients with tumors: A meta-analysis. <b>2019</b> , 18, 321-331	13
439	Bio-analytical applications of nicking endonucleases assisted signal-amplification strategies for detection of cancer biomarkers -DNA methyl transferase and microRNA. <b>2019</b> , 124-125, 233-243	18
438	MiR-132 promotes the proliferation, invasion and migration of human pancreatic carcinoma by inhibition of the tumor suppressor gene PTEN. <b>2019</b> , 148, 65-72	18
437	Electrochemical detection of microRNAs based on AuNPs/CNNS nanocomposite with Duplex-specific nuclease assisted target recycling to improve the sensitivity. <b>2020</b> , 208, 120441	12
436	miR-182-5p contributes to intestinal injury in a murine model of <i>Staphylococcus aureus</i> pneumonia-induced sepsis via targeting surfactant protein D. <b>2020</b> , 235, 563-572	13

435	Ultrasensitive detection of miRNA based on efficient immobilization of probe and electrochemiluminescent quenching of Ru(bpy) by methylene blue. <b>2020</b> , 1093, 52-60	7
434	Bioinspired sensor chip for detection of miRNA-21 based on photonic crystals assisted cyclic enzymatic amplification method. <b>2020</b> , 150, 111866	22
433	Red-shifted electrochemiluminescence of CdTe nanocrystals via Co-Doping and its spectral sensing application in near-infrared region. <b>2020</b> , 150, 111880	22
432	Signal Amplification in Living Cells: A Review of microRNA Detection and Imaging. <b>2020</b> , 92, 292-308	77
431	A fluorescent signal "removal" sensor via duplex-specific nuclease-aided cleavage for miRNA detection in flow cytometry. <b>2020</b> , 185, 110570	7
430	Circulating miRNA analysis for cancer diagnostics and therapy. <b>2020</b> , 72, 100825	41
429	A self-delivery DNA nanoprobe for reliable microRNA imaging in live cells by aggregation induced red-shift-emission. <b>2020</b> , 56, 1501-1504	6
428	Regulatory roles of differentially expressed MicroRNAs in metabolic processes in negative Lens-induced myopia Guinea pigs. <b>2020</b> , 21, 13	5
427	SNHG5 enhances Paclitaxel sensitivity of ovarian cancer cells through sponging miR-23a. <b>2020</b> , 123, 109711	15
426	Accelerated DNAzyme-based fluorescent nanoprobe for highly sensitive microRNA detection in live cells. <b>2020</b> , 56, 470-473	18
425	Gold nanocage-based surface-enhanced Raman scattering probes for long-term monitoring of intracellular microRNA during bone marrow stem cell differentiation. <b>2020</b> , 12, 1513-1527	17
424	Target-dependent dual strand extension recycling amplifications for non-label and ultrasensitive sensing of serum microRNA. <b>2020</b> , 210, 120651	3
423	Cancer Cell Membrane Vesicle for Multiplex MicroRNA Imaging in Living Cells. <b>2020</b> , 92, 1850-1855	14
422	Rolling Circular Amplification (RCA)-Assisted CRISPR/Cas9 Cleavage (RACE) for Highly Specific Detection of Multiple Extracellular Vesicle MicroRNAs. <b>2020</b> , 92, 2176-2185	80
421	Complexity measures of the mature miRNA for improving pre-miRNAs prediction. <b>2020</b> , 36, 2319-2327	5
420	Plasma exosomal miR-106a-5p expression in myasthenia gravis. <b>2020</b> , 61, 401-407	2
419	Lighting-up RNA aptamer transcription synchronization amplification for ultrasensitive and label-free imaging of microRNA in single cells. <b>2020</b> , 1102, 84-90	10
418	A novel zinc finger protein-based amperometric biosensor for miRNA determination. <b>2020</b> , 412, 5031-5041	14

4 <sup>17</sup>	A functionalized dumbbell probe-based cascading exponential amplification DNA machine enables amplified probing of microRNAs. <b>2020</b> , 56, 1681-1684	8
4 <sup>16</sup>	A dual signal amplification strategy for the highly sensitive fluorescence detection of nucleic acids. <b>2020</b> , 145, 1219-1226	8
4 <sup>15</sup>	CRISPR-Cas System for RNA Detection and Imaging. <b>2020</b> , 36, 157-163	6
4 <sup>14</sup>	Silencing of Long Noncoding RNA SNHG6 Inhibits Esophageal Squamous Cell Carcinoma Progression via miR-186-5p/HIF1 $\alpha$ Axis. <b>2020</b> , 65, 2844-2852	13
4 <sup>13</sup>	Identification of miR-210 and combination biomarkers as useful agents in early screening non-small cell lung cancer. <b>2020</b> , 729, 144225	4
4 <sup>12</sup>	Exosomes-mediated synthetic Dicer substrates delivery for intracellular Dicer imaging detection. <b>2020</b> , 151, 111907	9
4 <sup>11</sup>	Peptide nucleic acid-based electrochemical biosensor for simultaneous detection of multiple microRNAs from cancer cells with catalytic hairpin assembly amplification. <b>2020</b> , 305, 127545	35
4 <sup>10</sup>	Emerging isothermal amplification technologies for microRNA biosensing: Applications to liquid biopsies. <b>2020</b> , 72, 100832	15
4 <sup>09</sup>	Microsphere-based suspension array for simultaneous recognition and quantification of multiple cancer-associated miRNA via DNAzyme-Mediated signal amplification. <b>2020</b> , 1140, 69-77	3
4 <sup>08</sup>	Potential role of ACE2-related microRNAs in COVID-19-associated nephropathy. <b>2020</b> , 5, 153-166	30
4 <sup>07</sup>	Ultrasensitive and high-specific microRNA detection using hyper-branching rolling circle amplified CRISPR/Cas13a biosensor. <b>2020</b> , 325, 128799	9
4 <sup>06</sup>	Nanostructuring Synergetic Base-Stacking Effect: An Enhanced Versatile Sandwich Sensor Enables Ultrasensitive Detection of MicroRNAs in Blood. <b>2020</b> , 5, 2514-2522	9
4 <sup>05</sup>	A DNAzyme cascade for amplified detection of intracellular miRNA. <b>2020</b> , 56, 10163-10166	8
4 <sup>04</sup>	MicroRNA-148a-3p alleviates high glucose-induced diabetic retinopathy by targeting TGFB2 and FGF2. <b>2020</b> , 57, 1435-1443	11
4 <sup>03</sup>	Simple Tripedal DNA Walker Prepared by Target-Triggered Catalytic Hairpin Assembly for Ultrasensitive Electrochemiluminescence Detection of MicroRNA. <b>2020</b> , 5, 3584-3590	23
4 <sup>02</sup>	Target-Induced Core-Satellite Nanostructure Assembly Strategy for Dual-Signal-On Fluorescence Imaging and Raman Quantification of Intracellular MicroRNA Guided Photothermal Therapy. <b>2020</b> , 16, e2005511	18
4 <sup>01</sup>	Gold Nanoflares with Computing Function as Smart Diagnostic Automata for Multi-miRNA Patterns in Living Cells. <b>2020</b> , 92, 10925-10929	11
4 <sup>00</sup>	Intracellular Nonenzymatic Growth of Three-Dimensional DNA Nanostructures for Imaging Specific Biomolecules in Living Cells. <b>2020</b> , 14, 9572-9584	25

399	Future directions in advanced penile cancer - mechanisms of carcinogenesis and a search for targeted therapy. <b>2020</b> , 16, 2357-2369	5
398	Impedimetric Detection of MicroRNAs by the Signal Amplification of Streptavidin Induced In Situ Formation of Biotin Phenylalanine Nanoparticle Networks. <b>2020</b> , 167, 117505	3
397	Downregulation of miR-654-3p in Colorectal Cancer Indicates Poor Prognosis and Promotes Cell Proliferation and Invasion by Targeting SRC. <b>2020</b> , 11, 577948	2
396	Disposable 3D GNAs/AuNPs DNA-Circuit Strip for miRNAs Dynamic Quantification. <b>2020</b> , 16, e2001416	3
395	Insights into the Role of microRNAs in Colorectal Cancer (CRC) Metabolism. <b>2020</b> , 12,	6
394	ASIC1a regulates miR-350/SPRY2 by N -methyladenosine to promote liver fibrosis. <b>2020</b> , 34, 14371-14388	10
393	Comparative analysis of the down syndrome hippocampal non-coding RNA transcriptomes using a mouse model. <b>2020</b> , 42, 1259-1265	
392	Salacia mulbarica leaf extract mediated synthesis of silver nanoparticles for antibacterial and ct-DNA damage via releasing of reactive oxygen species. <b>2020</b> , 14, 485-490	0
391	Digital counting of nucleic acid targets using solid-state nanopores. <b>2020</b> , 12, 17833-17840	4
390	The Polymorphism rs2968 of Gene Confers Susceptibility to Age-Related Cataract. <b>2020</b> , 39, 1970-1975	1
389	Three-Dimensional DNA Nanomachine Combined with Toehold-Mediated Strand Displacement Reaction for Sensitive Electrochemical Detection of MiRNA. <b>2020</b> , 36, 10708-10714	13
388	Integration of small RNAs, degradome, and transcriptome sequencing provides insights into the differences between Shizhu ginseng and Yuan ginseng. <b>2020</b> , 30, 429	1
387	Construction of an Exonuclease III-Propelled Integrated DNAzyme Amplifier for Highly Efficient microRNA Detection and Intracellular Imaging with Ultralow Background. <b>2020</b> , 92, 15069-15078	18
386	A novel quantification platform for point-of-care testing of circulating MicroRNAs based on allosteric spherical nanoprobe. <b>2020</b> , 18, 158	5
385	Ultrasensitive Photoelectrochemical Detection of MicroRNA on Paper by Combining a Cascade Nanozyme-Engineered Biocatalytic Precipitation Reaction and Target-Triggerable DNA Motor. <b>2020</b> , 5, 1482-1490	34
384	A Spherical Nucleic Acid Probe Based on the Au-Se Bond. <b>2020</b> , 92, 8459-8463	23
383	DNA-Driven Two-Layer Core-Satellite Gold Nanostructures for Ultrasensitive MicroRNA Detection in Living Cells. <b>2020</b> , 16, e2000003	23
382	Single-cell sequencing of miRNAs: A modified technology. <b>2020</b> , 44, 1773-1780	5

381	Construction of a Quencher-Free Cascade Amplification System for Highly Specific and Sensitive Detection of Serum Circulating miRNAs. <b>2020</b> , 92, 8546-8552	17
380	Multi-Dimensionally Extended Functionalization Innovates to an Entropy-Driven Detection of Multi-miRNAs for One-Step Cancer Screening and Diagnosis in Living Cells. <b>2020</b> , 92, 8125-8132	5
379	Biodegradable Metal-Organic Frameworks Power DNAzyme for in Vivo Temporal-Spatial Control Fluorescence Imaging of Aberrant MicroRNA and Hypoxic Tumor. <b>2020</b> , 92, 8333-8339	32
378	MicroRNA-Initiated and Intracellular Na-Fueled DNAzyme Motor for Differentiating Molecular Subtypes of Non-small Cell Lung Cancer. <b>2020</b> , 92, 7404-7408	34
377	Ratiometric Electrochemiluminescent/Electrochemical Strategy for Sensitive Detection of MicroRNA Based on Duplex-Specific Nuclease and Multilayer Circuit of Catalytic Hairpin Assembly. <b>2020</b> , 92, 8614-8622	30
376	CRISPR/Cas13a Powered Portable Electrochemiluminescence Chip for Ultrasensitive and Specific MiRNA Detection. <b>2020</b> , 7, 1903661	66
375	Enzyme-free and protein-assisted dual-amplified fluorescence anisotropy for sensitive miRNA detection in tumor cells. <b>2020</b> , 218, 121179	6
374	Three-dimensional DNA tweezers serve as modular DNA intelligent machines for detection and regulation of intracellular microRNA. <b>2020</b> , 6, eabb0695	20
373	Janus nanoparticles with asymmetrically subcompartmentalized sensing and amplification modules toward fluorescence detection of microRNA. <b>2020</b> , 320, 128438	6
372	Construction of Dual-Color Probes with Target-Triggered Signal Amplification for Single-Molecule Imaging of MicroRNA. <b>2020</b> , 14, 8116-8125	39
371	A versatile luminescent resonance energy transfer (LRET)-based ratiometric upconversion nanoprobe for intracellular miRNA biosensing. <b>2020</b> , 8, 5952-5961	14
370	Insights into the SAM Synthetase Gene Family and Its Roles in Tomato Seedlings under Abiotic Stresses and Hormone Treatments. <b>2020</b> , 9,	23
369	Poly-adenine regulated DNA density on AuNPs to construct efficient DNA walker for microRNA-21 detection. <b>2020</b> , 217, 121056	20
368	Restoration of UPK1A-AS1 Expression Suppresses Cell Proliferation, Migration, and Invasion in Esophageal Squamous Cell Carcinoma Cells Partially by Sponging microRNA-1248. <b>2020</b> , 12, 2653-2662	7
367	Integrating CRISPR-Cas12a with a DNA circuit as a generic sensing platform for amplified detection of microRNA. <b>2020</b> , 11, 7362-7368	69
366	Biosensors Based on the Au-Se Bond. <b>2020</b> , 92, 9441-9448	11
365	Calcium ion assisted fluorescence determination of microRNA-167 using carbon dots-labeled probe DNA and polydopamine-coated FeO nanoparticles. <b>2020</b> , 187, 212	11
364	Quantitative Detection and Imaging of Multiple Biological Molecules in Living Cells for Cell Screening. <b>2020</b> , 5, 1149-1157	9

363	Improving Flow Bead Assay: Combination of Near-Infrared Optical Tweezers Stabilizing and Upconversion Luminescence Encoding. <b>2020</b> , 92, 5258-5266	4
362	Applying CRISPR-Cas12a as a Signal Amplifier to Construct Biosensors for Non-DNA Targets in Ultralow Concentrations. <b>2020</b> , 5, 970-977	52
361	Long Noncoding RNA CTC Inhibits Proliferation and Invasion by Targeting miR-146 to Regulate KIT in Papillary Thyroid Carcinoma. <b>2020</b> , 10, 4616	2
360	Integrated Analysis of miRNA-mRNA Network Reveals Different Regulatory Patterns in the Endometrium of Meishan and Duroc Sows during Mid-Late Gestation. <b>2020</b> , 10,	2
359	A well-designed Gold nanoparticle based fluorescence probe for assay Argonaute2 and Let-7a interaction in living cells. <b>2020</b> , 312, 128000	3
358	High-sensitive sensing of plant microRNA by integrating click chemistry with an unusual on-bead poly(T)-promoted transcription amplification. <b>2020</b> , 1111, 16-22	3
357	Capillarity self-driven DNA hydrogel sensor for visual quantification of microRNA. <b>2020</b> , 313, 128036	13
356	Homogeneous multiplexed digital detection of microRNA with ligation-rolling circle amplification. <b>2020</b> , 56, 5409-5412	17
355	A Cas12a-mediated cascade amplification method for microRNA detection. <b>2020</b> , 145, 5547-5552	7
354	Ultrasensitive analysis of microRNAs with gold nanoparticle-decorated molybdenum disulfide nanohybrid-based multilayer nanoprobe. <b>2020</b> , 56, 9012-9015	8
353	The Role of Non-coding RNAs in Viral Myocarditis. <b>2020</b> , 10, 312	8
352	Chloro-Substituted Naphthyridine Derivative and Its Conjugate with Thiazole Orange for Highly Selective Fluorescence Sensing of an Orphan Cytosine in the AP Site-Containing Duplexes. <b>2020</b> , 10, 4133	1
351	MicroRNA-responsive release of Cas9/sgRNA from DNA nanoflower for cytosolic protein delivery and enhanced genome editing. <b>2020</b> , 256, 120221	20
350	CRISPR/cas systems redefine nucleic acid detection: Principles and methods. <b>2020</b> , 165, 112430	68
349	One-step triggered branched DNA nanostructure for ultra-sensitive electrochemical detection of microRNA. <b>2020</b> , 158, 105186	5
348	Switch-conversional ratiometric fluorescence biosensor for miRNA detection. <b>2020</b> , 155, 112104	15
347	LncRNA KCNQ1OT1 accelerates fracture healing via modulating miR-701-3p/FGFR3 axis. <b>2020</b> , 34, 5208-5222	11
346	How to Perform miRacles: A Step-by-Step microRNA Detection Protocol Using DNA Nanoswitches. <b>2020</b> , 130, e114	3



- 345 Direct microRNA Sequencing Using Nanopore-Induced Phase-Shift Sequencing. **2020**, 23, 100916 12
- 344 Bioinspired Framework Nucleic Acid Capture Sensitively and Rapidly Resolving MicroRNAs Biomarkers in Living Cells. **2020**, 92, 4411-4418 26
- 343 Deep neural networks for human microRNA precursor detection. **2020**, 21, 17 6
- 342 A novel assay for exosomal and cell-free miRNA isolation and quantification. **2020**, 17, 425-440 7
- 341 Label-free detection of microRNA: two-stage signal enhancement with hairpin assisted cascade isothermal amplification and light-up DNA-silver nanoclusters. **2020**, 187, 141 5
- 340 A general strategy for highly sensitive analysis of genetic biomarkers at single-base resolution with ligase-based isothermally exponential amplification. **2020**, 212, 120754 3
- 339 A label-free luminescent light switching system for miRNA detection based on two color quantum dots. **2020**, 391, 112351 6
- 338 Sensitive and selective detection of microRNA in complex biological samples based on protein-enhanced fluorescence anisotropy. **2020**, 12, 687-692 2
- 337 Endogenous and artificial miRNAs explore a rich variety of conformations: a potential relationship between secondary structure and biological functionality. **2020**, 10, 453 3
- 336 A novel signal amplification strategy for highly specific and nonenzymatic isothermal electrochemiluminescence detection of tumour markers. **2020**, 12, 938-942 2
- 335 MoS<sub>2</sub>-based nanosensors in biomedical and environmental monitoring applications. **2020**, 349, 136370 31
- 334 Logic-signal-based multiplex detection of MiRNAs with high tension hybridization and multiple signal amplification. **2020**, 145, 4314-4320 2
- 333 A DNA tetrahedron nanoprobe-based fluorescence resonance energy transfer sensing platform for intracellular tumor-related miRNA detection. **2020**, 145, 3535-3542 8
- 332 Real-time and rapid quantification of microRNAs in cells and tissues using target-recycled enzyme-free amplification strategy. **2020**, 217, 121016 5
- 331 Metal Ion-Mediated Potential-Resolved Ratiometric Electrochemiluminescence Bioassay for Efficient Determination of miR-133a in Early Diagnosis of Acute Myocardial Infarction. **2020**, 92, 7062-7070 31
- 330 Electrochemistry-assisted surface plasmon resonance detection of miRNA-145 at femtomolar level. **2020**, 316, 128129 8
- 329 Ultrasensitive detection of microRNA based on a homogeneous label-free electrochemical platform using G-triplex/methylene blue as a signal generator. **2020**, 1116, 62-69 14
- 328 A microfluidic paper-based laser-induced fluorescence sensor based on duplex-specific nuclease amplification for selective and sensitive detection of miRNAs in cancer cells. **2020**, 216, 120996 22

327	Nanoplasmon-enhanced drop-screen for high throughput single-cell nucleocytoplasmic miRNA profiling. <b>2020</b> , 20, 1939-1946	2
326	DNA polymerase/NEase-assisted signal amplification coupled with silver nanoclusters for simultaneous detection of multiple microRNAs and molecular logic operations. <b>2021</b> , 327, 128915	4
325	Three-way junction DNA based electrochemical biosensor for microRNAs detection with distinguishable locked nucleic acid recognition and redox cycling signal amplification. <b>2021</b> , 880, 114861	2
324	DNA-coded metal nano-fluorophores: Preparation, properties and applications in biosensing and bioimaging. <b>2021</b> , 36, 101021	13
323	Nucleic Acids Analysis. <b>2020</b> , 64, 1-33	33
322	A pico-HPLC-LIF system for the amplification-free determination of multiple miRNAs in cells. <b>2021</b> , 32, 2183-2186	2
321	MNAzyme-Catalyzed Amplification Assay with Lanthanide Tags for the Simultaneous Detection of Multiple microRNAs by Inductively Coupled Plasma-Mass Spectrometry. <b>2021</b> , 93, 737-744	22
320	Human Serum Albumin-Gold Nanoparticle Based Impedimetric Sensor for Sensitive Detection of miRNA-200c. <b>2021</b> , 33, 925-935	2
319	DNA Nanomachines for Identifying Cancer Biomarkers in Body Fluids and Cells. <b>2021</b> , 93, 1855-1865	14
318	Target-triggered regioselective assembly of nanoprobe for Raman imaging of dual cancer biomarkers in living cells. <b>2021</b> , 330, 129319	4
317	Design of a rapid, multiplex, one-pot miRNA assay optimized by label-free analysis. <b>2021</b> , 172, 112751	1
316	Recent advances in surface manipulation using micro-contact printing for biomedical applications. <b>2021</b> , 2, 65-73	8
315	Activation of palindromes on a degradable modular grafting probe enables ultrasensitive detection of microRNAs. <b>2021</b> , 57, 5941-5944	2
314	Global expression of noncoding RNome reveals dysregulation of small RNAs in patients with HTLV-1-associated adult T-cell leukemia: a pilot study. <b>2021</b> , 16, 4	2
313	A versatile magnetic bead-based flow cytometric assay for the detection of thyroid cancer related hsa-miR-221-3p in blood and tissues. <b>2021</b> , 146, 842-847	2
312	The miR-204-5p/FOXC1/GDF7 axis regulates the osteogenic differentiation of human adipose-derived stem cells via the AKT and p38 signalling pathways. <b>2021</b> , 12, 64	3
311	Multiplexed and amplified chemiluminescence resonance energy transfer (CRET) detection of genes and microRNAs using dye-loaded hemin/G-quadruplex-modified UiO-66 metal-organic framework nanoparticles. <b>2021</b> , 12, 4810-4818	8
310	Potential of Circulating Proangiogenic MicroRNAs for Predicting Major Adverse Cardiac and Cerebrovascular Events in Unprotected Left Main Coronary Artery Disease Patients Who Underwent Coronary Artery Bypass Grafting. <b>2021</b> , 146, 400-408	2

309	Downregulation of miR-218 by porcine reproductive and respiratory syndrome virus facilitates viral replication via inhibition of type I interferon responses. <b>2021</b> , 296, 100683	6
308	Label-Free Detection for DNA/RNA Molecules. <b>2021</b> , 61-78	
307	A Prussian Blue Nanoparticles-based Fluorescent Nanoprobe for Monitoring MicroRNA-92a and MicroRNA-21. <b>2021</b> ,	0
306	An efficient localized catalytic hairpin assembly-based DNA nanomachine for miRNA-21 imaging in living cells. <b>2021</b> , 146, 3041-3051	8
305	Advances in multiplexed techniques for the detection and quantification of microRNAs. <b>2021</b> , 50, 4141-4161	33
304	Ultrasensitive homogeneous detection of microRNAs in a single cell with specifically designed exponential amplification. <b>2021</b> , 57, 5570-5573	2
303	MicroRNAs Regulating Autophagy in Neurodegeneration. <b>2021</b> , 1208, 191-264	0
302	Sensitive detection of RNA based on concatenated self-fuelled strand displacement amplification and hairpin-AgNCs. <b>2021</b> , 13, 447-452	3
301	Triggered Dimerization and Trimerization of DNA Tetrahedra for Multiplexed miRNA Detection and Imaging of Cancer Cells. <b>2021</b> , 17, e2007355	13
300	Human esophageal fibroblast-derived exosomal miR-21 reduced the cisplatin sensitivity to esophageal carcinoma EC9706 cells. <b>2021</b> , 54, e11156	0
299	Applications of cell resealing to reconstitute microRNA loading to extracellular vesicles. <b>2021</b> , 11, 2900	1
298	Electrochemiluminescence biosensor for microRNA determination based on AgNCs@MoS composite with (AuNPs-Semicarbazide)@Cu-MOF as coreaction accelerator. <b>2021</b> , 188, 68	3
297	miRNAs as attractive diagnostic and therapeutic targets for Familial Mediterranean Fever. <b>2021</b> , 31, 949-959	1
296	Highly Stable Covalent Organic Framework Nanosheets as a New Generation of Electrochemiluminescence Emitters for Ultrasensitive MicroRNA Detection. <b>2021</b> , 93, 3258-3265	24
295	Sensitive detection of microRNA-21 in cancer cells and human serum with Au@Si nanocomposite and lateral flow assay. <b>2021</b> , 1147, 56-63	7
294	Circulating miRNA in atherosclerosis: a clinical biomarker and early diagnostic tool. <b>2021</b> ,	1
293	Recent trends in application of nanomaterials for the development of electrochemical microRNA biosensors. <b>2021</b> , 188, 128	6
292	Advances in single-molecule fluorescent nanosensors. <b>2021</b> , 13, e1716	5

291	Duplex-specific nuclease-based electrochemical biosensor for the detection of microRNAs by conversion of homogeneous assay into surface-tethered electrochemical analysis. <b>2021</b> , 1149, 338199	10
290	Analysis of Polymorphisms in microRNAs Deregulated in Alzheimer Disease. <b>2021</b> , 15, 631852	1
289	Trisubstituted Pyrrolinones as Small-Molecule Inhibitors Disrupting the Protein-RNA Interaction of LIN28 and. <b>2021</b> , 12, 893-898	3
288	Reverse transcription lesion-induced DNA amplification: An instrument-free isothermal method to detect RNA. <b>2021</b> , 1149, 238130	1
287	Dimensional Surface-Enhanced Raman Scattering Nanostructures for MicroRNA Profiling. <b>2021</b> , 2, 2000150	4
286	Highly sensitive multiplex detection of microRNA using light-up RNA aptamers. <b>2021</b> , 330, 129410	7
285	Electrochemical and PEC platforms for miRNA and other epigenetic markers of cancer diseases: Recent updates. <b>2021</b> , 124, 106929	12
284	DNA Triple Helix Complex-Functionalized Electrochemical Sensor for Sensitive Detection of MicroRNA in Human Serum. <b>2021</b> , 168, 057503	2
283	A graphene-based fluorescent nanoprobe for simultaneous imaging of dual miRNAs in living cells. <b>2021</b> , 225, 121947	6
282	Paper-based electrode assemble for impedimetric detection of miRNA. <b>2021</b> , 225, 122043	7
281	Dual-Mode SERS and Electrochemical Detection of miRNA Based on Popcorn-like Gold Nanofilms and Toehold-Mediated Strand Displacement Amplification Reaction. <b>2021</b> , 93, 6120-6127	30
280	Ultrasensitive multiplexed detection of miRNA targets of interest based on encoding probe extension in improved cDNA library. <b>2021</b> , 1152, 338281	2
279	Orderly Assembled, Self-Powered FRET Flares for MicroRNA Imaging in Live Cells. <b>2021</b> , 93, 6270-6277	6
278	Competitive host-guest recognition initiated by DNazyme-cleavage cycling for novel ratiometric electrochemical assay of miRNA-21. <b>2021</b> , 333, 129556	11
277	Non-Coding RNAs Regulate Placental Trophoblast Function and Participate in Recurrent Abortion. <b>2021</b> , 12, 646521	7
276	Digital Counting of Biomolecules Using Engineered Functional DNA Superstructures. <b>2021</b> , 93, 8071-8076	1
275	Integrated nicking enzyme-powered numerous-legged DNA walker prepared by rolling circle amplification for fluorescence detection of microRNA. <b>2021</b> , 188, 214	0
274	Circulating microRNAs: Biomarkers of disease. <b>2021</b> , 516, 46-54	19

273	A Cascade Signal Amplification Based on Dynamic DNA Nanodevices and CRISPR/Cas12a Trans-cleavage for Highly Sensitive MicroRNA Sensing. <b>2021</b> , 10, 1481-1489	1
272	Hydrogel-based composites: Unlimited platforms for biosensors and diagnostics. 20200165	7
271	Enzyme-free amplified detection of cellular microRNA by light-harvesting fluorescent nanoparticle probes. <b>2021</b> , 179, 113084	12
270	Ternary Electrochemiluminescence Biosensor Based on DNA Walkers and AuPd Nanomaterials as a Coreaction Accelerator for the Detection of miRNA-141. <b>2021</b> , 13, 25783-25791	13
269	Cascades between miRNAs, lncRNAs and the NF- $\kappa$ B signaling pathway in gastric cancer (Review). <b>2021</b> , 22, 769	2
268	MiR-467a-5p aggravates myocardial infarction by modulating ZEB1 expression in mice. <b>2021</b> , 52, 767-780	1
267	Recent advances in optical imaging of biomarkers in vivo. <b>2021</b> , 38, 101156	5
266	Identifying prognostic lncRNAs based on a ceRNA regulatory network in laryngeal squamous cell carcinoma. <b>2021</b> , 21, 705	3
265	A Dual Functional Self-Enhanced Electrochemiluminescent Nanohybrid for Label-Free MicroRNA Detection. <b>2021</b> , 93, 8971-8977	12
264	The function of miR-637 in non-small cell lung cancer progression and prognosis. <b>2021</b> ,	0
263	MicroRNAs expression analysis shows key affirmation of Synaptopodin-2 as a novel prognostic and therapeutic biomarker for colorectal and cervical cancers. <b>2021</b> , 7, e07347	1
262	Absolute Quantification of MicroRNAs in a Single Cell with Chemiluminescence Detection Based on Rolling Circle Amplification on a Microchip Platform. <b>2021</b> , 93, 9218-9225	8
261	In Situ Formation of Ag2S Nanoparticles on a Paper-Supported Wettable Microchip for High-Throughput Photothermal Sensing of MicroRNA. <b>2021</b> , 1, 111-116	
260	Fine-tuning multiciliated cell differentiation at the post-transcriptional level: contribution of miR-34/449 family members. <b>2021</b> , 96, 2321-2332	1
259	Stimuli-Responsive Autonomous-Motion Molecular Machine for Sensitive Simultaneous Fluorescence Imaging of Intracellular MicroRNAs. <b>2021</b> , 93, 9869-9877	5
258	Nucleic Acid Tests for Clinical Translation. <i>Chemical Reviews</i> , <b>2021</b> , 121, 10469-10558	68.1 23
257	Fluorescent detection of microRNA-21 in MCF-7 cells based on multifunctional gold nanorods and the integration of chemotherapy and phototherapy. <b>2021</b> , 188, 253	2
256	Amplification-Free and Mix-and-Read Analysis of Multiplexed MicroRNAs on a Single Plasmonic Microbead. <b>2021</b> , 21, 6718-6724	5

255	Upregulating miR-27a-3p inhibits cell proliferation and inflammation of rheumatoid arthritis synovial fibroblasts through targeting toll-like receptor 5. <b>2021</b> , 22, 1227	8
254	HMGA1 promotes hepatocellular carcinoma proliferation, migration, and regulates cell cycle via miR-195-5p. <b>2021</b> ,	1
253	A fluorescent microarray platform based on catalytic hairpin assembly for MicroRNAs detection. <b>2021</b> , 1173, 338666	7
252	"Dual-Signal-On" Integrated-Type Biosensor for Portable Detection of miRNA: Cas12a-Induced Photoelectrochemistry and Fluorescence Strategy. <b>2021</b> , 93, 11816-11825	8
251	Inhibition of miR-96-5p May Reduce A $\beta$ 2/A $\beta$ 0 Ratio via Regulating ATP-binding cassette transporter A1. <b>2021</b> , 83, 367-377	0
250	Electrochemiluminescence Biosensor Based on Entropy-Driven Amplification and a Tetrahedral DNA Nanostructure for miRNA-133a Detection. <b>2021</b> , 93, 11809-11815	9
249	MiR-302a Limits Vascular Inflammation by Suppressing Nuclear Factor- $\kappa$ B Pathway in Endothelial Cells. <b>2021</b> , 9, 682574	1
248	A Photoacoustic Contrast Agent for miR-21 via NIR Fluorescent Hybridization Chain Reaction. <b>2021</b> ,	2
247	Experimental MicroRNA Detection Methods. <b>2022</b> , 2257, 33-55	4
246	Endogenous microRNA triggered enzyme-free DNA logic self-assembly for amplified bioimaging and enhanced gene therapy via in situ generation of siRNAs. <b>2021</b> , 19, 288	4
245	Ultra-sensitive and high efficiency detection of multiple non-small cell lung cancer-related miRNAs on a single test line in catalytic hairpin assembly-based SERS-LFA strip. <b>2021</b> , 1178, 338800	7
244	Spatially localized amplification reaction with accelerated target conversion for sensitive microRNA detection. <b>2021</b> , 232, 122422	1
243	Optimizing surface modification of silicon nanowire field-effect transistors by polyethylene glycol for MicroRNA detection. <b>2022</b> , 209, 112142	1
242	Rolling Circle Amplification as an Efficient Analytical Tool for Rapid Detection of Contaminants in Aqueous Environments. <b>2021</b> , 11,	1
241	Rapid and highly sensitive hairpin structure-mediated colorimetric detection of miRNA. <b>2021</b> , 1176, 338765	2
240	LncRNA-MCM3AP-AS1 Promotes the Progression of Infantile Hemangiomas by Increasing miR-138-5p/HIF-1 $\alpha$ -Axis-Regulated Glycolysis. <b>2021</b> , 8, 753218	2
239	DNA Logic Circuits for Multiple Tumor Cells Identification Using Intracellular MicroRNA Molecular Bispecific Recognition. <b>2021</b> , 10, e2101130	4
238	Target-triggered substantial stacking of electroactive indicators based on digestion-to-growth regulated tandem isothermal amplification for ultrasensitive miRNA determination. <b>2021</b> , 344, 130280	4

237	Gold-platinum nanoflowers as colored and catalytic labels for ultrasensitive lateral flow MicroRNA-21 assay. <b>2021</b> , 344, 130325	3
236	Surface plasmon resonance biosensor for the detection of miRNAs by combining the advantages of homogeneous reaction and heterogeneous detection. <b>2021</b> , 234, 122622	3
235	MoS-based nanocomposites for cancer diagnosis and therapy. <b>2021</b> , 6, 4209-4242	42
234	Ultrasensitive electrochemical detection of miRNA based on polymerization signal amplification. <b>2021</b> , 235, 122744	4
233	An On-off signal-switchable electrochemiluminescence biosensor for ultrasensitive detection of dual microRNAs based on DNAzyme-powered DNA walker. <b>2021</b> , 348, 130660	3
232	A photocathode based on BiOI-Bi/CNTs for microRNA detection coupling with target recycling strand displacement amplification. <b>2021</b> , 348, 130691	2
231	DNase I-assisted 2'-O-methyl molecular beacon for amplified detection of tumor exosomal microRNA-21. <b>2021</b> , 235, 122727	0
230	Iodide-modified Ag nanoparticles coupled with DSN-Assisted cycling amplification for label-free and ultrasensitive SERS detection of MicroRNA-21. <b>2021</b> , 235, 122728	4
229	Live-cell imaging of microRNA expression with post-transcriptional feedback control. <b>2021</b> , 26, 547-556	0
228	Intracellular in situ assembly of palindromic DNA hydrogel for predicting malignant invasion and preventing tumorigenesis. <b>2022</b> , 428, 131150	2
227	DNA nanolatern-mediated catalytic hairpin assembly nanoamplifiers for simultaneous detection of multiple microRNAs. <b>2022</b> , 236, 122846	2
226	White spot syndrome virus-encoded microRNA promotes viral replication by maintaining viral early gene expression. <b>2022</b> , 546, 737284	0
225	In situ detection of plasma exosomal microRNA for lung cancer diagnosis using duplex-specific nuclease and MoS nanosheets. <b>2021</b> , 146, 1924-1931	9
224	One-Pot Simultaneous Detection of Multiple DNA and MicroRNA by Integrating the Cationic-Conjugated Polymer and Nuclease-Assisted Cyclic Amplification. <b>2021</b> , 4, 820-828	4
223	Photo-driven self-powered biosensors for ultrasensitive microRNA detection based on metal-organic framework-controlled release behavior. <b>2021</b> , 146, 816-819	3
222	Learning-based Cancer Treatment Outcome Prognosis using Multimodal Biomarkers.. <b>2022</b> , 6, 231-244	
221	Pyrene-Modified Guanine Cluster Probes Forming DNA/RNA Hybrid Three-Way Junctions for Imaging of Intracellular MicroRNAs.. <b>2021</b> , 4, 1668-1676	2
220	A Review on the Role of Nanosensors in Detecting Cellular miRNA Expression in Colorectal Cancer. <b>2021</b> , 21, 12-26	7

219	Biomaterialized zeolitic imidazolate framework-8 nanoparticles enable polymerase/endonuclease synergistic amplification reaction in living cells for sensitive microRNA imaging. <b>2021</b> , 57, 8472-8475	2
218	Stimuli-responsive hydrogel microcapsules for the amplified detection of microRNAs. <b>2021</b> , 13, 16799-16808	6
217	Tanshinone IIA Ameliorates Inflammation Response in Osteoarthritis via Inhibition of miR-155/FOXO3 Axis. <b>2021</b> , 106, 20-28	3
216	Epigenetics of prostate cancer. <b>2015</b> , 1238, 217-34	9
215	Positive Bioluminescence Imaging of MicroRNA Expression in Small Animal Models Using an Engineered Genetic-Switch Expression System, RILES. <b>2016</b> , 1372, 193-208	3
214	Target-Cell-Specific Bioorthogonal and Endogenous ATP Control of Signal Amplification for Intracellular MicroRNA Imaging. <b>2021</b> , 93, 1693-1701	13
213	Dual-Signal Amplification Strategy for Sensitive MicroRNA Detection Based on Rolling Circle Amplification and Enzymatic Repairing Amplification. <b>2020</b> , 5, 32738-32743	3
212	Single-Measurement Multiplexed Quantification of MicroRNAs from Human Tissue Using Catalytic Hairpin Assembly and Förster Resonance Energy Transfer. <b>2020</b> , 5, 1768-1776	14
211	A nanobiosensor based on graphene oxide and DNA binding dye for multi-microRNAs detection. <b>2019</b> , 39,	8
210	Detection of cellular microRNAs with programmable DNA nanoswitches.	1
209	Droplet-digital Cas13a assay enables direct single-molecule microRNA quantification.	2
208	miRCom: Tensor completion integrating multi-view information to deduce the potential disease-related miRNA-miRNA pairs. <b>2020</b> , PP,	3
207	Downregulation of MiR-218-5p Protects Against Oxygen-Glucose Deprivation/Reperfusion-Induced Injuries of PC12 Cells via Upregulating N-myc Downstream Regulated Gene 4 (NDRG4). <b>2020</b> , 26, e920101	6
206	Identification and Analysis of the Porcine MicroRNA in Porcine Cytomegalovirus-Infected Macrophages Using Deep Sequencing. <b>2016</b> , 11, e0150971	12
205	Simultaneous Determination of Multiple microRNA Levels Utilizing Biotinylated Dideoxynucleotides and Mass Spectrometry. <b>2016</b> , 11, e0153201	5
204	The role of miRNAs in regulating adrenal and gonadal steroidogenesis. <b>2020</b> , 64, R21-R43	12
203	Identification of microRNA differentially expressed in three subtypes of non-small cell lung cancer and in silico functional analysis. <b>2017</b> , 8, 74554-74566	15
202	A radiosensitivity MiRNA signature validated by the TCGA database for head and neck squamous cell carcinomas. <b>2015</b> , 6, 34649-57	23



201	Micro-RNA and the Features of Metabolic Syndrome: A Narrative Review. <b>2020</b> , 20, 626-635	3
200	Electrochemical Nano-biosensors as Novel Approach for the Detection of Lung Cancer-related MicroRNAs. <b>2019</b> , 20, 13-35	13
199	Nanoerythroosome-Biohybrid Microswimmers for Cancer Theranostics Cargo Delivery. <b>2021</b> , 261-284	2
198	Circular RNA NEK6 contributes to the development of non-small-cell lung cancer by competitively binding with miR-382-5p to elevate BCAS2 expression at post-transcriptional level. <b>2021</b> , 21, 325	0
197	miR-451-3p alleviates myocardial ischemia/reperfusion injury by inhibiting MAP1LC3B-mediated autophagy. <b>2021</b> , 70, 1089-1100	3
196	Endogenous miRNA-Activated DNA Nanomachine for Intracellular miRNA Imaging and Gene Silencing. <b>2021</b> , 93, 13919-13927	6
195	Metal-Organic Framework Nanoparticles Power DNzyme Logic Circuits for Aberrant MicroRNA Imaging. <b>2021</b> , 93, 14675-14684	9
194	Ultrasensitive Dual-Signal Detection of Telomerase and MiR-21 Based on Boolean Logic Operations. <b>2021</b> , 13, 51393-51402	4
193	Intelligent assembly of Y-shaped DNA nanostructures for intracellular microRNA imaging. <b>2022</b> , 1189, 338701	
192	Advances in the study of emodin: an update on pharmacological properties and mechanistic basis. <b>2021</b> , 16, 102	1
191	Biosensors, microfluidics systems and lateral flow assays for circulating microRNA detection: A review. <b>2021</b> , 633, 114406	3
190	Photoelectrochemical monitoring of miRNA based on Au NPs@g-CN coupled with exonuclease-involved target cycle amplification. <b>2021</b> , 1187, 339156	3
189	Introduction. <b>2015</b> , 1-6	
188	Zinc Finger E-Box Binding Homeobox 1 (ZEB1). <b>2016</b> , 387-391	
187	GAX and HOXA5. <b>2016</b> , 133-139	
186	Discussion of the Applications and Progress of POCT and Thioredoxin Reductase Activity Testing (TrxR) in the Field of Oncology. <b>2016</b> , 06, 25-34	
185	Identification of Novel and Differentially Expressed MicroRNAs in Goat Enzootic Nasal Adenocarcinoma.	
184	Direct microRNA sequencing using Nanopore Induced Phase-Shift Sequencing (NIPSS).	

183	Experimental investigation on processing of fused silica microchannels by high repetition rate femtosecond laser. <b>2019</b> ,	
182	Regulatory Roles of Differentially Expressed MicroRNAs in Metabolic Processes in Negative Lens-Induced Myopia Guinea Pigs.	
181	Targeted delivery of miR-218 via decorated hyperbranched polyamidoamine for liver cancer regression. <b>2021</b> , 610, 121256	1
180	Sensitive Detection of Argonaute2 by Triple-Helix Molecular Switch Reaction and Pyrene Excimer Switching. <b>2020</b> , 73, 1074	
179	Highly sensitive microRNA detection by a duplex-specific nuclease amplification triggered three-dimensional DNA machine. <b>2021</b> , 13, 5694-5699	0
178	Biological Roles and Clinical Significance of Exosome-Derived Noncoding RNAs in Bladder Cancer. <b>2021</b> , 11, 704703	1
177	Toward Sensitive and Reliable Surface-Enhanced Raman Scattering Imaging: From Rational Design to Biomedical Applications. <b>2021</b> , 6, 3912-3932	5
176	Fluorescence Detection of miRNA-21 Using Au/Pt Bimetallic Tubular Micromotors Driven by Chemical and Surface Acoustic Wave Forces.. <b>2021</b> , 4, 7932-7941	6
175	Hemolysis-free plasma miR-214 as novel biomarker of gastric cancer and is correlated with distant metastasis. <b>2015</b> , 5, 821-9	18
174	Down-regulation of microRNA-126 and microRNA-133b acts as novel predictor biomarkers in progression and metastasis of non small cell lung cancer. <b>2015</b> , 8, 14983-8	26
173	MicroRNA-147 suppresses human hepatocellular carcinoma proliferation migration and chemosensitivity by inhibiting HOXC6. <b>2016</b> , 6, 2787-2798	19
172	MiR-21/PTEN signaling modulates the chemo-sensitivity to 5-fluorouracil in human lung adenocarcinoma A549 cells. <b>2019</b> , 12, 2339-2352	5
171	Role of microRNA in inner ear stem cells and related research progress. <b>2020</b> , 9, 16-24	3
170	Ratiometric fluorescence analysis for miR-141 detection with hairpin DNA-templated silver nanoclusters.	3
169	MicroRNA-195-3p promotes hepatic stellate cell activation and liver fibrosis by suppressing PTEN expression. <b>2021</b> , 355, 88-99	0
168	miR-30b-5p inhibits proliferation, invasion, and migration of papillary thyroid cancer by targeting GALNT7 via the EGFR/PI3K/AKT pathway. <b>2021</b> , 21, 618	2
167	Photoactivated DNA Walker Based on DNA Nanoflares for Signal-Amplified MicroRNA Imaging in Single Living Cells. <b>2021</b> , 93, 16264-16272	4
166	Downregulation of miR-29c promotes muscle wasting by modulating the activity of leukemia inhibitory factor in lung cancer cachexia. <b>2021</b> , 21, 627	0

165	Heterostructures Made of Upconversion Nanoparticles and Metal-Organic Frameworks for Biomedical Applications. <b>2021</b> , e2103911	10
164	Upregulation of miR-886 indicates poor prognosis and promotes tumour progression of prostate cancer. <b>2021</b> , e14296	0
163	Small molecules with tetrahydroquinoline-containing Povarov scaffolds as inhibitors disrupting the Protein-RNA interaction of LIN28-let-7. <b>2021</b> , 228, 114014	2
162	Shedding Light on DNA-Based Nanoprobes for Live-Cell MicroRNA Imaging. <b>2021</b> , e2106281	2
161	Portable point-of-care diagnostic devices: an updated review. <b>2021</b> , 13, 5418-5435	1
160	A review of the biological role of miRNAs in prostate cancer suppression and progression.. <b>2021</b> , 197, 141-141	6
159	Association between miRNAs expression and multiple sclerosis pathogenesis: A novel therapeutic approach. <b>2022</b> , 26, 101457	0
158	Cotton thread-based multi-channel photothermal biosensor for simultaneous detection of multiple microRNAs.. <b>2021</b> , 200, 113913	2
157	Label-free and sensitive microRNA detection method based on the locked nucleic acid assisted fishing amplification strategy.. <b>2021</b> , 240, 123169	
156	A Two-Photon Metal-Organic Framework Nanoprobe with Catalytic Hairpin Assembly for Amplified MicroRNA Imaging in Living Cells and Tissues.	
155	miRNA-Guided Imaging and Photodynamic Therapy Treatment of Cancer Cells Using Zn(II)-Protoporphyrin IX-Loaded Metal-Organic Framework Nanoparticles.. <b>2022</b> ,	8
154	PAM-less conditional DNA substrates leverage trans-cleavage of CRISPR-Cas12a for versatile live-cell biosensing.. <b>2022</b> , 13, 2011-2020	2
153	Characterization of circulating molecules and activities in plasma of patients after allogeneic and autologous intraoral bone grafting procedures: a prospective randomized controlled clinical trial in humans.. <b>2022</b> , 22, 24	0
152	A test strip electrochemical disposable by 3D MXA/AuNPs DNA-circuit for the detection of miRNAs.. <b>2022</b> , 189, 50	3
151	An aptamer-tethered DNA origami amplifier for sensitive and accurate imaging of intracellular microRNA.. <b>2022</b> ,	1
150	Sensitive Quantification of MicroRNA in Blood through Multi-amplification Toehold-Mediated DNA-Strand-Displacement Paper-Spray Mass Spectrometry (TSD-PS MS).	
149	Sensitive Quantification of MicroRNA in Blood through Multi-amplification Toehold-Mediated DNA-Strand-Displacement Paper-Spray Mass Spectrometry (TSD-PS MS). <b>2021</b> ,	1
148	Framework Nucleic Acid-Based Spatial-Confinement Amplifier for miRNA Imaging in Living Cells.. <b>2022</b> ,	4

147	MicroRNA: Crucial modulator in purinergic signalling involved diseases.. <b>2022</b> , 1	0
146	Biologically stable threose nucleic acid-based probes for real-time microRNA detection and imaging in living cells.. <b>2022</b> , 27, 787-796	1
145	Plasmon-enhanced biosensors for microRNA analysis and cancer diagnosis.. <b>2022</b> , 203, 114041	3
144	A New Hyperbranched Nucleic Acid Dendrimer Synergistically Integrating Two Alzheimer's Disease-Related miRNAs.	
143	Advances in amplification-free detection of nucleic acid: CRISPR/Cas system as a powerful tool.. <b>2022</b> , 114593	1
142	Construction of a dual-functional dumbbell probe-based fluorescent biosensor for cascade amplification detection of miRNAs in lung cancer cells and tissues.. <b>2022</b> ,	2
141	Hairpin-functionalized DNA tetrahedra for miRNA imaging in living cells self-assembly to form dendrimers.. <b>2022</b> ,	1
140	Wet-lab methods for miRNA analysis. <b>2022</b> , 93-107	
139	Electrochemiluminescence enhanced by isolating ACQphores in pyrene-based porous organic polymer: A novel ECL emitter for the construction of biosensing platform.. <b>2022</b> , 1206, 339648	0
138	Exploring nano-enabled CRISPR-Cas-powered strategies for efficient diagnostics and treatment of infectious diseases.. <b>2022</b> , 1-32	5
137	Self-Propelled Janus Mesoporous Micromotor for Enhanced MicroRNA Capture and Amplified Detection in Complex Biological Samples.. <b>2022</b> ,	5
136	STAT3 pathway in cancers: Past, present, and future.. <b>2022</b> , 3, e124	1
135	Spatially Resolved, Error-Robust Multiplexed MicroRNA Profiling in Single Living Cells.. <b>2022</b> ,	0
134	Chemical Design of Activatable Photoacoustic Probes for Precise Biomedical Applications.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1 10
133	MicroRNA-21 electrochemiluminescence biosensor based on Co-MOF-N-(4-aminobutyl)-N-ethylisoluminol/TiCT composite and duplex-specific nuclease-assisted signal amplification.. <b>2022</b> , 189, 129	2
132	Spatially Resolved, Error-Robust Multiplexed MicroRNA Profiling in Single Living Cells.	
131	Biomineralized Zeolitic Imidazolate Framework-8 Nanoparticles Enable Polymerase-Driven DNA Biocomputing for Reliable Cell Identification.. <b>2022</b> ,	1
130	Ratiometric electrochemical detection of miRNA based on DNA nanomachines and strand displacement reaction.. <b>2022</b> , 189, 133	1

129	Role of exosomal non-coding RNAs from tumor cells and tumor-associated macrophages in the tumor microenvironment.. <b>2022,</b>	7
128	Catalytic Hairpin Assembly-Driven Ratiometric Dual-Signal Electrochemical Biosensor for Ultrasensitive Detection of MicroRNA Based on the Ratios of Fe-MOFs and MB-GA-UiO-66-NH.. <b>2022,</b>	2
127	A two-photon metal-organic framework nanoprobe with catalytic hairpin assembly for amplified MicroRNA imaging in living cells and tissues. <b>2022,</b> 359, 131593	1
126	Endocytosis and intracellular RNAs imaging of nanomaterials-based fluorescence probes.. <b>2022,</b> 243, 123377	0
125	Highly sensitive and reliable detection of microRNA for clinically disease surveillance using SERS biosensor integrated with catalytic hairpin assembly amplification technology.. <b>2022,</b> 208, 114236	4
124	Hairpin allosteric molecular beacons-based cascaded amplification for effective detection of lung cancer-associated microRNA.. <b>2022,</b> 244, 123412	0
123	A bimodal strategy for highly sensitive and accurate miRNA-21 detection based on photoluminescence and multi-phonon resonant Raman scattering properties of ZnTe nanoparticles. <b>2022,</b> 363, 131821	0
122	Electrogenerated chemiluminescence biosensor for microRNA detection incorporating enzyme-free dual DNA cyclic amplification and Ru(bpy)-functionalized metal-organic framework.. <b>2022,</b> 245, 123458	0
121	Real-Time Sequential Fluorescence Activation Imaging of Cyt and Caspase-9 with a Gold-Selenium-Bonded Nanoprobe. <b>2021,</b>	0
120	Expression of miR-29a in whole Blood of Patients with Colorectal Neoplasm. <b>2021,</b> 27, 216-222	
119	Interfacial DNA Framework-Enhanced Background-to-Signal Transition for Ultrasensitive and Specific Micro-RNA Detection.. <b>2022,</b>	0
118	Sense and Validate: Fluorophore/Mass Dual-Encoded Nanoprobes for Fluorescence Imaging and MS Quantification of Intracellular Multiple MicroRNAs.. <b>2022,</b>	3
117	Exponential isothermal amplification coupled MALDI-TOF MS for microRNAs detection. <b>2022,</b>	
116	Endogenous MicroRNA Accurate Diagnostics to Guide Photothermal Therapy.. <b>2022,</b>	1
115	miR-142-3p suppresses porcine reproductive and respiratory syndrome virus (PRRSV) infection by directly targeting Rac1.. <b>2022,</b> 269, 109434	0
114	Image_1.TIF. <b>2020,</b>	
113	Table_1.docx. <b>2020,</b>	
112	Image_1.jpeg. <b>2019,</b>	

111	Image_2.jpeg. <b>2019,</b>	
110	Table_1.xls. <b>2019,</b>	
109	Table_2.xls. <b>2019,</b>	
108	Applications of triplex DNA nanostructures in sensor development.. <b>2022,</b> 1	2
107	Reversible Ratiometric Electrochemiluminescence Biosensor Based on DNAzyme Regulated Resonance Energy Transfer for Myocardial miRNA Detection.. <b>2022,</b>	1
106	A designer DNA tetrahedron-based molecular beacon for tumor-related microRNA fluorescence imaging in living cells.. <b>2022,</b>	
105	MiR-103a-3p aggravates renal cell carcinoma by targeting TMEM33.. <b>2021,</b> 13, 12694-12703	
104	MicroRNA-21 expression in single living cells revealed by fluorescence and SERS dual-response microfluidic droplet platform.. <b>2022,</b>	0
103	Enzyme-free catalyzed self-assembly of three-dimensional hyperbranched DNA structures for in situ SERS imaging and molecular logic operations. <b>2022,</b> 136838	2
102	A Target-Feedback Rolling-Cleavage Signal Amplifier for Ultrasensitive Electrochemical Detection of miRNA with Self-Assembled CeO <sub>2</sub> @Ag Hybrid Nanoflowers. <b>2022,</b> 108152	0
101	Label-Free miRNA-21 Analysis Based on Strand Displacement and Terminal Deoxynucleotidyl Transferase-Assisted Amplification Strategy. <b>2022,</b> 12, 328	0
100	Modern Methods for Assessment of microRNAs. <b>2022,</b> 87, 425-442	0
99	DNA-gold nanoprobe-based integrated biosensing technology for non-invasive liquid biopsy of serum miRNA: A new frontier in prostate cancer diagnosis.. <b>2022,</b> 102566	0
98	Pancreatic Cancer: Nucleic Acid Drug Discovery and Targeted Therapy. <b>2022,</b> 10,	1
97	A programmable and sensitive CRISPR/Cas12a-based MicroRNA detection platform combined with hybridization chain reaction. <b>2022,</b> 211, 114382	2
96	Ultrasensitive Detection of MicroRNA by in Situ Synthesis of Silver Nanoclusters Mediated by Rolling Circle Amplification.	
95	Jinlida Granules Reduce Obesity in db/db Mice by Activating Beige Adipocytes. <b>2022,</b> 2022, 1-11	0
94	MicroRNAs in drug addiction: Current status and future perspectives. <b>2022,</b> 108215	1

93	Recent advance of RNA aptamers and DNAzymes for MicroRNA detection. <b>2022</b> , 212, 114423	0
92	A plasmonic nanoparticle-embedded polydopamine substrate for fluorescence detection of extracellular vesicle biomarkers in serum and urine from patients with systemic lupus erythematosus. <b>2022</b> , 247, 123620	0
91	The hypoxia-induced changes in miRNA-mRNA in RNA -induced silencing complexes and HIF -2 induced miRNAs in human endothelial cells. <b>2022</b> , 36,	1
90	Enzyme-free nucleic acid dual-amplification strategy combined with mimic enzyme catalytic precipitation reaction for the photoelectrochemical detection of microRNA-21. <b>2022</b> , 189,	0
89	Photonic Barcodes Combining Branched Hybridization Chain Reaction for Multiplex Quantification of Bladder Cancer MicroRNAs. 2102515	1
88	Neuroprotective effect of the Nrf2/ARE/miRNA145-5p signaling pathway in the early phase of spinal cord injury. <b>2022</b> , 120726	1
87	A sensitive and facile microRNA detection based on CRISPR-Cas12a coupled with strand displacement amplification. <b>2022</b> , 279, 121476	0
86	Highly Sensitive Detection and Intracellular Imaging of Micrnas Based on Target-Triggered Cascade Catalytic Hairpin Assembly.	
85	Bioinformatics-based analysis of SUMOylation-related genes in hepatocellular carcinoma reveals a role of upregulated SAE1 in promoting cell proliferation. <b>2022</b> , 17, 1183-1202	0
84	Visualizing MiRNA Regulation of Apoptosis for Investigating the Feasibility of MiRNA-Targeted Therapy Using a Fluorescent Nanoprobe. <b>2022</b> , 14, 1349	
83	Recent Advances in Near-Infrared-II Fluorescence Imaging for Deep-Tissue Molecular Analysis and Cancer Diagnosis. 2202035	4
82	Predicting SNPs in Mature MicroRNAs Dysregulated in Breast Cancer.	
81	Understanding the Involvement of microRNAs in Mitochondrial Dysfunction and Their Role as Potential Biomarkers and Therapeutic Targets in Parkinson Disease. <b>2022</b> , 1-16	1
80	Multiregion Linear DNA Walker-Mediated Ultrasensitive Electrochemical Biosensor for miRNA Detection.	1
79	Mitochondria MicroRNA Spatial Imaging via pH-Responsive Exonuclease-Assisted AIE Nanoreporter.	
78	Umbilical Cord Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Deliver miR-21 to Promote Corneal Epithelial Wound Healing through PTEN/PI3K/Akt Pathway. <b>2022</b> , 2022, 1-15	3
77	Blood biomarkers for canine cancer, from human to veterinary oncology.	
76	Exponential and efficient target-catalyst rolling circle amplification for label-free and ultrasensitive fluorescent detection of miR-21 and p53 gene. <b>2022</b> , 1221, 340132	0

- 75 PCDetection: PolyA-CRISPR/Cas12a-based miRNA detection without PAM restriction. **2022**, 214, 114497 1
- 74 Highly sensitive detection and intracellular imaging of MicroRNAs based on target-triggered cascade catalytic hairpin assembly. **2022**, 123753 0
- 73 Fluorescence energy transfer biosensing platform based on hyperbranched rolling circle amplification and multi-site strand displacement for ultrasensitive detection of miRNA. **2022**, 340190
- 72 Programmable Analysis of MicroRNAs by Thermus thermophilus Argonaute-Assisted Exponential Isothermal Amplification for Multiplex Detection (TEAM). **2022**, 94, 11290-11297 1
- 71 Phenol/Chloroform-Free TiO<sub>2</sub>-Based miRNA Extraction from Cell Lysate. **2022**, 23, 8848
- 70 Nonenzymatic Multiamplified Electrochemical Detection of Medulloblastoma-Relevant MicroRNAs from Cerebrospinal Fluid. **2022**, 7, 2320-2327 1
- 69 Delineating the role of extracellular vesicles in cancer metastasis: A comprehensive review. 13, 2
- 68 Photoelectrochemical biosensor based on CdS quantum dots anchored h-BN nanosheets and tripodal DNA walker for sensitive detection of miRNA-141. **2022**, 1226, 340265 0
- 67 A toehold mediated feedback rolling circle amplification with exponential signal amplification enables label-free nucleic acid sensing with high sensitivity and specificity. **2022**, 371, 132511 0
- 66 MicroRNA-376b-3p ameliorates nonalcoholic fatty liver disease by targeting FGFR1 and regulating lipid oxidation in hepatocytes. **2022**, 308, 120925 0
- 65 Tetrahedral DNA framework based CRISPR electrochemical biosensor for amplification-free miRNA detection. **2022**, 217, 114671 1
- 64 Circulating MicroRNA (miRNA)s as Biological Markers and Links with Obesity and Obesity-Related Morbid Conditions. **2022**, 1-22 0
- 63 A cancer cell membrane vesicle-packaged DNA nanomachine for intracellular microRNA imaging. **2022**, 58, 9488-9491 0
- 62 A universal rolling circle amplification for label-free and highly specific nucleic acid sensing. 0
- 61 Detection of Pancreatic Cancer miRNA with Biocompatible Nitrogen-Doped Graphene Quantum Dots. **2022**, 15, 5760 1
- 60 Design and Fabrication of a DNA-copper Nanocluster-based Biosensor for Multiple Detections of Circulating miRNAs in Early Screening of Breast Cancer. 0
- 59 Simple Amplifier Coupled with a Lanthanide Labeling Strategy for Multiplexed and Specific Quantification of MicroRNAs. **2022**, 94, 12934-12941 2
- 58 Inflammation-Related microRNAs-146a and -155 Are Upregulated in Mild Cognitive Impairment Subjects Among Older Age Population in Montenegro. **2022**, 1-14 1



57	Metal-Organic Framework-Loaded Engineering DNAzyme for the Self-Powered Amplified Detection of MicroRNA. <b>2022</b> , 94, 13108-13116	1
56	Recent Advances in Graphitic Carbon Nitrides (g-C <sub>3</sub> N <sub>4</sub> ) as Photoluminescence Sensing Probe: A Review. <b>2022</b> , 7,	0
55	Identification of microRNAs and their expression profiles on tension and opposite wood of Eucalyptus.	0
54	Size-Controllable and Self-Assembled DNA Nanosphere for Amplified MicroRNA Imaging through ATP-Fueled Cyclic Dissociation.	0
53	Circulating MicroRNA (miRNA)s as Biological Markers and Links with Obesity and Obesity-Related Morbid Conditions. <b>2022</b> , 495-516	0
52	Bioinformatics Analysis of MicroRNA Profiles Unveils Novel Biological Markers of Alzheimer's Disease. <b>2022</b> , 16, 334-342	0
51	Research progress on microRNA in gout. 13,	0
50	Curcumin protects PC12 cells from a high glucose-induced inflammatory response by regulating the miR-218-5p/TLR4 axis. <b>2022</b> , 101, e30967	0
49	Microneedle Array Encapsulated with Programmed DNA Hydrogels for Rapidly Sampling and Sensitive Sensing of Specific MicroRNA in Dermal Interstitial Fluid.	2
48	Sensitive microRNA detection based on bimetallic label photothermal lateral flow locked nucleic acid biosensor with smartphone readout. <b>2022</b> , 132945	0
47	MicroRNAs modulate neuroinflammation after intracerebral hemorrhage: Prospects for new therapy. 13,	0
46	Label-free homogeneous electrochemical sensing strategy for microRNA detection. <b>2022</b> , 183, 108097	0
45	Sensitive detection of microRNA based on high-fidelity CRISPR/Cas13a trans cleavage activity coupled with template-free DNA extension-induced strongly emitting copper nanoparticles. <b>2023</b> , 374, 132848	0
44	A domino-like localized cascade toehold assembly amplification-based DNA nanowire for microRNA imaging in living cells. <b>2022</b> , 13, 14373-14381	0
43	Cruciate DNA probes for amplified multiplexed imaging of microRNAs in living cells. <b>2022</b> , 11, 204-210	0
42	Electrochemical analysis of microRNAs with hybridization chain reaction-based triple signal amplification. <b>2022</b> , 108012	0
41	?????RNA?????????. <b>2022</b> ,	0
40	A Comprehensive Sequencing Analysis of Testis-Born miRNAs in Immature and Mature Indigenous Wandong Cattle (Bos taurus). <b>2022</b> , 13, 2185	0

- 39 Ferrocene-Functionalized Covalent Organic Frameworks and Target Catalyzed Hairpin Assembly Strategy for Amplified Electrochemical Determination of MicroRNAs. **2022**, 94, 16945-16952 1
- 38 Programmable Microparticle Array for In Situ Modification and Multiple miRNA Detection. **2022**, 7, 3654-3659 1
- 37 Identification of Small-Molecule Inhibitors of Oncogenic Lin28/Let-7 Interaction. **2023**, 7-52 0
- 36 Integration of Manganese Dioxide-Based Nanomaterials for Biomedical Applications. 2200093 0
- 35 miRNAs insights into rheumatoid arthritis: Favorable and detrimental aspects of key performers. **2022**, 121321 1
- 34 Analysis and Biomedical Applications of Functional Cargo in Extracellular Vesicles. 0
- 33 Quantitative analysis of miRNAs using SplintR ligase-mediated ligation of complementary-pairing probes enhanced by RNase H (SPLICER)-qPCR. **2022**, 0
- 32 Ultrasensitive CRISPR/Cas13a-Mediated Photoelectrochemical Biosensors for Specific and Direct Assay of miRNA-21. 0
- 31 An entropy-driven DNA nanomachine for microRNA detection using a personal glucose meter. 0
- 30 Heteromultivalent scaffolds fabricated by biomimetic co-assembly of DNA-RNA building blocks for the multi-analysis of miRNAs. 0
- 29 miRNAs as cornerstones in adipogenesis and obesity. **2023**, 315, 121382 0
- 28 Studies on the application of single-stranded DNA and PNA probes for electrochemical detection of miRNA 141. **2023**, 150, 108363 0
- 27 Hexagon AgNCs/PVP Crystallization Induced Cathode Electrochemiluminescence Enhancement for miRNA221 Biosensing. 2205607 0
- 26 Branch-Shaped Trapping Device Regulates Accelerated Catalyzed Hairpin Assembly and Its Application for MicroRNA In Situ Imaging. 0
- 25 Quantification of MicroRNAs or Viral RNAs with Microelectrode Sensors Enabled by Electrochemical Signal Amplification. **2023**, 117-133 0
- 24 SCAT8/miR-125b-5p axis triggers malignant progression of nasopharyngeal carcinoma through SCARB1. **2023**, 24, 0
- 23 Altered plasma exosome miRNAs and novel potential biomarkers in pediatric fulminant myocarditis. **2023**, 110622 0
- 22 Wheel drive-based DNA sensing system for highly specific and rapid one-step detection of MiRNAs at the attomolar level. **2023**, 257, 124371 0

- 21 Primer exchange reaction-amplified protein-nucleic acid interactions for ultrasensitive and specific microRNA detection. **2023**, 230, 115274 ○
- 20 Hairpin DNAs conformational changes inducing opposite-polarity photoelectric signals recovery for simultaneous monitoring of dual microRNAs. **2023**, 382, 133565 ○
- 19 Cascade-amplified fluorescence polarization assay for miRNA based on aggregation strategy of Y-shaped DNA. **2023**, 187, 108428 ○
- 18 Target-catalyzed self-assembled spherical G-quadruplex/hemin DNAzymes for highly sensitive colorimetric detection of microRNA in serum. **2023**, 1247, 340879 ○
- 17 MicroRNA schizophrenia: Etiology, biomarkers and therapeutic targets. **2023**, 146, 105064 ○
- 16 Target Turn on electrochemical pseudocapacitive sensor for ultrasensitive detection of microRNA-141. **2023**, 381, 133469 ○
- 15 Near-infrared light-induced photoelectrochemical biosensor based on plasmon-enhanced upconversion nanocomposites for microRNA-155 detection with cascade amplifications. **2023**, 226, 115145 ○
- 14 Detection of Large Genomic RNA via DNAzyme-Mediated RNA Cleavage and Rolling Circle Amplification: SARS-CoV-2 as a Model. ○
- 13 A novel circRNA, hsa\_circ\_0069382, regulates gastric cancer progression. **2023**, 23, ○
- 12 Harnessing PUF-Based Reporters for Noninvasive Imaging of the MicroRNA Dynamics in Differentiation. **2023**, 95, 4786-4794 ○
- 11 Signal differentiation models for multiple microRNA detection: a critical review. ○
- 10 Triggering stepwise-strand displacement amplification lights up numerous G-quadruplex for colorimetric signaling of serum microRNAs. **2023**, 26, 106331 ○
- 9 Iridium Complex with Specific Intercalation in the G-Quadruplex: A Phosphorescence and Electrochemiluminescence Dual-Mode Homogeneous Biosensor for Enzyme-Free and Label-Free Detection of MicroRNA. ○
- 8 Ultrasensitive electrochemical sensing platform for miRNA-21 detection based on manganese dioxide-gold nanoparticle nanoconjugates coupled with hybridization chain reaction and horseradish peroxidase signal amplification. ○
- 7 DNA-guided self-assembly in living cells. **2023**, 26, 106620 ○
- 6 Insights into the Molecular Mechanisms Mediating Extravasation in Brain Metastasis of Breast Cancer, Melanoma, and Lung Cancer. **2023**, 15, 2258 ○
- 5 Photocleavable Ortho-Nitrobenzyl-Protected DNA Architectures and Their Applications. ○
- 4 Rational engineering of nucleic acid probe system for enhanced intracellular MicroRNA detection. **2023**, 487, 215157 ○

- 3 Self-Powered DNzyme Walker Enables Dual-Mode Biosensor Construction for Electrochemiluminescence and Electrochemical Detection of MicroRNA. ○
- 2 Single-molecule/particle counting for microRNA detection and imaging. **2023**, 164, 117085 ○
- 1 Research progress of CRISPR/Cas systems in nucleic acid detection. **2023**, ○