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Topology of the human and mouse m6A RNA methylomes revealed by m6A-seq

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|------|---|----|-----------|
| 2245 | Transcriptome-wide N6-methyladenosine analysis. 2012 , 13, 452-452 | | |
| 2244 | Implications of widespread covalent modification of mRNA. 2012 , 111, 1491-3 | | 2 |
| 2243 | MODOMICS: a database of RNA modification pathways--2013 update. 2013 , 41, D262-7 | | 772 |
| 2242 | FTO, RNA epigenetics and epilepsy. 2012 , 7, 1094-7 | | 19 |
| 2241 | Disrupting cancer cells' biocircuits with interactome-based drugs: is 'clinical' innovation realistic?. 2012 , 9, 349-53 | | 14 |
| 2240 | From specific to global analysis of posttranscriptional regulation in eukaryotes: posttranscriptional regulatory networks. 2012 , 11, 505-21 | | 12 |
| 2239 | Mapping recently identified nucleotide variants in the genome and transcriptome. 2012 , 30, 1107-16 | | 179 |
| 2238 | The birth of the Epitranscriptome: deciphering the function of RNA modifications. 2012 , 13, 175 | | 275 |
| 2237 | Nucleic acid modifications with epigenetic significance. 2012 , 16, 516-24 | | 116 |
| 2236 | Development of cell-active N6-methyladenosine RNA demethylase FTO inhibitor. 2012 , 134, 17963-71 | | 188 |
| 2235 | Uncovering the biology of FTO. 2012 , 1, 32-6 | | 9 |
| 2234 | Struktur und Funktion nicht-kanonischer Nucleobasen. 2012 , 124, 7220-7242 | | 26 |
| 2233 | Structure and function of noncanonical nucleobases. 2012 , 51, 7110-31 | | 129 |
| 2232 | Analysis of RNA base modification and structural rearrangement by single-molecule real-time detection of reverse transcription. 2013 , 11, 8 | | 97 |
| 2231 | The fat mass and obesity associated gene (Fto) regulates activity of the dopaminergic midbrain circuitry. 2013 , 16, 1042-8 | | 327 |
| 2230 | Expression of NOL1/NOP2/sun domain (Nsun) RNA methyltransferase family genes in early mouse embryogenesis. 2013 , 13, 319-27 | | 47 |
| 2229 | The biology of FTO: from nucleic acid demethylase to amino acid sensor. 2013 , 56, 2113-21 | | 33 |

| | | |
|------|--|------|
| 2228 | A multidimensional platform for the purification of non-coding RNA species. 2013 , 41, e168 | 34 |
| 2227 | All's well that ends well: alternative polyadenylation and its implications for stem cell biology. 2013 , 25, 222-32 | 25 |
| 2226 | N6-methyl-adenosine (m6A) in RNA: an old modification with a novel epigenetic function. 2013 , 11, 8-17 | 254 |
| 2225 | m(6)A mRNA methylation: a new circadian pacesetter. 2013 , 155, 740-1 | 29 |
| 2224 | RNA-methylation-dependent RNA processing controls the speed of the circadian clock. 2013 , 155, 793-806 | 607 |
| 2223 | Probing N6-methyladenosine RNA modification status at single nucleotide resolution in mRNA and long noncoding RNA. 2013 , 19, 1848-56 | 320 |
| 2222 | High-resolution mapping reveals a conserved, widespread, dynamic mRNA methylation program in yeast meiosis. 2013 , 155, 1409-21 | 415 |
| 2221 | Epigenetics and Complex Traits. 2013 , | 1 |
| 2220 | Characterizing 5-methylcytosine in the mammalian epitranscriptome. 2013 , 14, 215 | 155 |
| 2219 | Differential analysis of rna methylation sequencing data. 2013 , | |
| 2218 | From histones to RNA: role of methylation in cancer. 2013 , 12, 244-53 | 17 |
| 2217 | FTO levels affect RNA modification and the transcriptome. 2013 , 21, 317-23 | 45 |
| 2216 | ALKBH5 is a mammalian RNA demethylase that impacts RNA metabolism and mouse fertility. 2013 , 49, 18-29 | 1627 |
| 2215 | Identification of a selective polymerase enables detection of N(6)-methyladenosine in RNA. 2013 , 135, 19079-82 | 75 |
| 2214 | MeRIP-PF: an easy-to-use pipeline for high-resolution peak-finding in MeRIP-Seq data. 2013 , 11, 72-5 | 12 |
| 2213 | Role for the obesity-related FTO gene in the cellular sensing of amino acids. 2013 , 110, 2557-62 | 129 |
| 2212 | N6-methyl-adenosine modification in messenger and long non-coding RNA. 2013 , 38, 204-9 | 137 |
| 2211 | How cells get the message: dynamic assembly and function of mRNA-protein complexes. 2013 , 14, 275-87 | 266 |

| | | |
|------|--|-----|
| 2210 | Novel RNA regulatory mechanisms revealed in the epitranscriptome. 2013 , 10, 342-6 | 31 |
| 2209 | Reversible RNA adenosine methylation in biological regulation. 2013 , 29, 108-15 | 223 |
| 2208 | Regulation of snoRNAs in cancer: close encounters with interferon. 2013 , 33, 189-98 | 14 |
| 2207 | Sprouts of RNA epigenetics: the discovery of mammalian RNA demethylases. 2013 , 10, 915-8 | 69 |
| 2206 | FTO-mediated formation of N6-hydroxymethyladenosine and N6-formyladenosine in mammalian RNA. 2013 , 4, 1798 | 255 |
| 2205 | Emerging roles for ribonucleoprotein modification and remodeling in controlling RNA fate. 2013 , 23, 504-10 | 35 |
| 2204 | Mapping and significance of the mRNA methylome. 2013 , 4, 397-422 | 73 |
| 2203 | Transcriptome-wide mapping of N(6)-methyladenosine by m(6)A-seq based on immunocapturing and massively parallel sequencing. 2013 , 8, 176-89 | 358 |
| 2202 | Posttranscriptional regulation of retroviral gene expression: primary RNA transcripts play three roles as pre-mRNA, mRNA, and genomic RNA. 2013 , 4, 567-80 | 37 |
| 2201 | Transcriptome-wide mapping of 5-methylcytidine RNA modifications in bacteria, archaea, and yeast reveals m5C within archaeal mRNAs. 2013 , 9, e1003602 | 205 |
| 2200 | A link between FTO, ghrelin, and impaired brain food-cue responsivity. 2013 , 123, 3539-51 | 246 |
| 2199 | HAMR: high-throughput annotation of modified ribonucleotides. 2013 , 19, 1684-92 | 89 |
| 2198 | Epigenome-Wide Association Studies: Potential Insights into Human Disease. 2013 , 287-317 | 3 |
| 2197 | Crystallization and preliminary X-ray diffraction of the RNA demethylase ALKBH5. 2013 , 69, 1231-4 | 6 |
| 2196 | Unveiling the dynamics in RNA epigenetic regulations. 2013 , | 3 |
| 2195 | Exome-based analysis for RNA epigenome sequencing data. 2013 , 29, 1565-7 | 83 |
| 2194 | Role of SMG-1-mediated Upf1 phosphorylation in mammalian nonsense-mediated mRNA decay. 2013 , 18, 161-75 | 45 |
| 2193 | Long non-coding RNAs as targets for cytosine methylation. 2013 , 10, 1003-8 | 107 |

2192 Biochimie 2012. **2013**, 61, 298-312

2191 Structure-function relationship of substituted bromomethylcoumarins in nucleoside specificity of RNA alkylation. **2013**, 8, e67945 7

2190 Epidermal growth-factor-induced transcript isoform variation drives mammary cell migration. **2013**, 8, e80566 15

2189 Transcriptome-wide mapping of pseudouridines: pseudouridine synthases modify specific mRNAs in *S. cerevisiae*. **2014**, 9, e110799 227

2188 Algorithms for Mapping High-Throughput DNA Sequences. **2014**, 41-50 4

2187 Modify or die?--RNA modification defects in metazoans. **2014**, 11, 1555-67 51

2186 Structure of human RNA N6-methyladenine demethylase ALKBH5 provides insights into its mechanisms of nucleic acid recognition and demethylation. **2014**, 42, 4741-54 117

2185 Absolute and relative quantification of RNA modifications via biosynthetic isotopomers. **2014**, 42, e142 79

2184 FTO-dependent demethylation of N6-methyladenosine regulates mRNA splicing and is required for adipogenesis. **2014**, 24, 1403-19 612

2183 Mammalian WTAP is a regulatory subunit of the RNA N6-methyladenosine methyltransferase. **2014**, 24, 177-89 1061

2182 Reading RNA methylation codes through methyl-specific binding proteins. **2014**, 11, 669-72 77

2181 Dye label interference with RNA modification reveals 5-fluorouridine as non-covalent inhibitor. **2014**, 42, 12735-45 10

2180 Transcriptome-wide N6-methyladenosine profiling of rice callus and leaf reveals the presence of tissue-specific competitors involved in selective mRNA modification. **2014**, 11, 1180-8 85

2179 Crystal structure of the YTH domain of YTHDF2 reveals mechanism for recognition of N6-methyladenosine. **2014**, 24, 1493-6 179

2178 Methyltransferases modulate RNA stability in embryonic stem cells. **2014**, 16, 129-31 36

2177 Molecular basis for the recognition of methylated adenines in RNA by the eukaryotic YTH domain. **2014**, 111, 13834-9 137

2176 Genomics and Proteomics. Roadmap to the epitranscriptome. **2014**, 346, 1192 21

2175 Stem cell RNA epigenetics: m(6)arking your territory. **2014**, 15, 669-70 1

| | | |
|------|---|-----|
| 2174 | Unique features of the m6A methylome in Arabidopsis thaliana. 2014 , 5, 5630 | 239 |
| 2173 | Molecular Mechanisms Underpinning the Development of Obesity. 2014 , | 2 |
| 2172 | Changes in gene expression associated with FTO overexpression in mice. 2014 , 9, e97162 | 27 |
| 2171 | Characterizing multi-omic data in systems biology. 2014 , 799, 15-38 | 21 |
| 2170 | The Role of the GWAS Identified FTO Locus in Regulating Body Size and Composition. 2014 , 57-72 | |
| 2169 | m6a RNA Methylation: The Implications for Health and Disease. 2014 , 1, | 1 |
| 2168 | Solution structure of the YTH domain in complex with N6-methyladenosine RNA: a reader of methylated RNA. 2014 , 42, 13911-9 | 130 |
| 2167 | Crystal structure of the RNA demethylase ALKBH5 from zebrafish. 2014 , 588, 892-8 | 41 |
| 2166 | The fat mass and obesity-associated (FTO) gene: Obesity and beyond?. 2014 , 1842, 2039-47 | 43 |
| 2165 | Molecular biology. Internal mRNA methylation finally finds functions. 2014 , 343, 1207-8 | 57 |
| 2164 | FTO and obesity: mechanisms of association. 2014 , 14, 486 | 72 |
| 2163 | The dynamic epitranscriptome: N6-methyladenosine and gene expression control. 2014 , 15, 313-26 | 545 |
| 2162 | Switching demethylation activities between AlkB family RNA/DNA demethylases through exchange of active-site residues. 2014 , 53, 3659-62 | 43 |
| 2161 | Gene expression regulation mediated through reversible m ⁶ A RNA methylation. 2014 , 15, 293-306 | 905 |
| 2160 | Transcriptome-wide target profiling of RNA cytosine methyltransferases using the mechanism-based enrichment procedure Aza-IP. 2014 , 9, 337-61 | 34 |
| 2159 | Elements and machinery of non-coding RNAs: toward their taxonomy. 2014 , 15, 489-507 | 63 |
| 2158 | Entering the era of single-cell transcriptomics in biology and medicine. 2014 , 11, 22-4 | 169 |
| 2157 | Systems analysis of human multigene disorders. Preface. 2014 , 799, v - viii | 3 |

| | | |
|------|---|-----------|
| 2156 | Synthesis of a FTO inhibitor with anticonvulsant activity. 2014 , 5, 658-65 | 59 |
| 2155 | A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. 2014 , 10, 93-5 | 1458 |
| 2154 | Translational reprogramming in cellular stress response. 2014 , 5, 301-15 | 131 |
| 2153 | Crystal structures of the human RNA demethylase Alkbh5 reveal basis for substrate recognition. 2014 , 289, 11571-11583 | 98 |
| 2152 | N6-methyladenosine modification destabilizes developmental regulators in embryonic stem cells. 2014 , 16, 191-8 | 762 |
| 2151 | The Genetics of Obesity. 2014 , | |
| 2150 | N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014 , 505, 117-20 | 50.4 1949 |
| 2149 | Method for site-specific detection of m6A nucleoside presence in RNA based on high-resolution melting (HRM) analysis. 2014 , 42, e27 | 34 |
| 2148 | An expanding universe of mRNA modifications. 2014 , 21, 945-6 | 25 |
| 2147 | Repair of methyl lesions in RNA by oxidative demethylation. 2014 , 5, 1797-1803 | 6 |
| 2146 | Detection of RNA modifications by HPLC analysis and competitive ELISA. 2014 , 1169, 3-14 | 2 |
| 2145 | Novel RNA modifications in the nervous system: form and function. 2014 , 34, 15170-7 | 39 |
| 2144 | Profiling of RNA modifications by multiplexed stable isotope labelling. 2014 , 50, 3516-8 | 50 |
| 2143 | Decoding neural transcriptomes and epigenomes via high-throughput sequencing. 2014 , 17, 1463-75 | 42 |
| 2142 | Methods for comprehensive experimental identification of RNA-protein interactions. 2014 , 15, 203 | 117 |
| 2141 | The role of the FTO (Fat Mass and Obesity Related) locus in regulating body size and composition. 2014 , 397, 34-41 | 38 |
| 2140 | A general method for N-methylation of amines and nitro compounds with dimethylsulfoxide. 2014 , 20, 58-63 | 92 |
| 2139 | Methylation by NSun2 represses the levels and function of microRNA 125b. 2014 , 34, 3630-41 | 66 |

| | | |
|------|--|---------|
| 2138 | m(6)A RNA modification controls cell fate transition in mammalian embryonic stem cells. 2014 , 15, 707-19 | 675 |
| 2137 | A protocol for RNA methylation differential analysis with MeRIP-Seq data and exomePeak R/Bioconductor package. 2014 , 69, 274-81 | 132 |
| 2136 | Perturbation of m6A writers reveals two distinct classes of mRNA methylation at internal and 5' sites. 2014 , 8, 284-96 | 700 |
| 2135 | Role of RNA methyltransferases in tissue renewal and pathology. 2014 , 31, 1-7 | 83 |
| 2134 | Structures of human ALKBH5 demethylase reveal a unique binding mode for specific single-stranded N6-methyladenosine RNA demethylation. 2014 , 289, 17299-311 | 102 |
| 2133 | Emerging roles of RNA modification: m(6)A and U-tail. 2014 , 158, 980-987 | 186 |
| 2132 | Dynamic RNA modifications in posttranscriptional regulation. 2014 , 56, 5-12 | 96 |
| 2131 | Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. 2014 , 10, 927-9 | 383 |
| 2130 | Genome-Wide Identification, Biochemical Characterization, and Expression Analyses of the YTH Domain-Containing RNA-Binding Protein Family in Arabidopsis and Rice. 2014 , 32, 1169-1186 | 41 |
| 2129 | Mechanism and function of oxidative reversal of DNA and RNA methylation. 2014 , 83, 585-614 | 243 |
| 2128 | The pivotal regulatory landscape of RNA modifications. 2014 , 15, 127-50 | 203 |
| 2127 | Dynamic RNA modifications in disease. 2014 , 26, 47-52 | 70 |
| 2126 | Oxidative demethylation of DNA and RNA mediated by non-heme iron-dependent dioxygenases. 2014 , 9, 2018-29 | 6 |
| 2125 | Pseudouridine profiling reveals regulated mRNA pseudouridylation in yeast and human cells. <i>Nature</i> , 2014 , 515, 143-6 | 504 576 |
| 2124 | Methylation modifications in eukaryotic messenger RNA. 2014 , 41, 21-33 | 80 |
| 2123 | MOV10 Is a 5' to 3' RNA helicase contributing to UPF1 mRNA target degradation by translocation along 3' UTRs. 2014 , 54, 573-85 | 119 |
| 2122 | Posttranscriptional RNA Modifications: playing metabolic games in a cell's chemical Legoland. 2014 , 21, 174-85 | 140 |
| 2121 | Genome-wide mapping of cellular protein-RNA interactions enabled by chemical crosslinking. 2014 , 12, 72-8 | 21 |

| | | |
|------|---|-----|
| 2120 | Functional implications of ribosomal RNA methylation in response to environmental stress. 2014 , 49, 69-89 | 25 |
| 2119 | Organische Chemie 2013. 2014 , 62, 264-301 | |
| 2118 | The bigger picture of FTO: the first GWAS-identified obesity gene. 2014 , 10, 51-61 | 353 |
| 2117 | Four pairs of gene-gene interactions associated with increased risk for type 2 diabetes (CDKN2BAS-KCNJ11), obesity (SLC2A9-IGF2BP2, FTO-APOA5), and hypertension (MC4R-IGF2BP2) in Chinese women. 2014 , 2, 384-91 | 14 |
| 2116 | Nucleic acid oxidation in DNA damage repair and epigenetics. 2014 , 114, 4602-20 | 63 |
| 2115 | Switching Demethylation Activities between AlkB Family RNA/DNA Demethylases through Exchange of Active-Site Residues. 2014 , 126, 3733-3736 | 5 |
| 2114 | Profiling of ribose methylations in RNA by high-throughput sequencing. 2015 , 54, 451-5 | 129 |
| 2113 | Understanding Molecular Mechanisms for Diabetes and Obesity through Mouse Models. 2014 , 146-157 | |
| 2112 | Differential analysis of RNA methylome with improved spatial resolution. 2014 , | |
| 2111 | Identification and analysis of the N(6)-methyladenosine in the <i>Saccharomyces cerevisiae</i> transcriptome. 2015 , 5, 13859 | 68 |
| 2110 | HEPeak: an HMM-based exome peak-finding package for RNA epigenome sequencing data. 2015 , 16 Suppl 4, S2 | 9 |
| 2109 | The reverse transcription signature of N-1-methyladenosine in RNA-Seq is sequence dependent. 2015 , 43, 9950-64 | 127 |
| 2108 | Milk: an epigenetic amplifier of FTO-mediated transcription? Implications for Western diseases. 2015 , 13, 385 | 49 |
| 2107 | Transcriptome-wide high-throughput deep m(6)A-seq reveals unique differential m(6)A methylation patterns between three organs in <i>Arabidopsis thaliana</i> . 2015 , 16, 272 | 97 |
| 2106 | High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. 2015 , 127, 1607-1610 | 26 |
| 2105 | Comprehensive Analysis of RNA-Protein Complex Using Mass Spectrometry-Based Technology. 2015 , 53, 850-859 | |
| 2104 | Profiling of Ribose Methylations in RNA by High-Throughput Sequencing. 2015 , 127, 461-465 | 24 |
| 2103 | Post-transcriptional inducible gene regulation by natural antisense RNA. 2015 , 20, 1-36 | 35 |

| | | |
|------|--|------|
| 2102 | Capture, Unfolding, and Detection of Individual tRNA Molecules Using a Nanopore Device. 2015 , 3, 91 | 32 |
| 2101 | CPSF30 at the Interface of Alternative Polyadenylation and Cellular Signaling in Plants. 2015 , 5, 1151-68 | 31 |
| 2100 | The epitranscriptome in modulating spatiotemporal RNA translation in neuronal post-synaptic function. 2015 , 9, 420 | 17 |
| 2099 | The Epitranscriptome and Innate Immunity. 2015 , 11, e1005687 | 48 |
| 2098 | The Demethylase Activity of FTO (Fat Mass and Obesity Associated Protein) Is Required for Preadipocyte Differentiation. 2015 , 10, e0133788 | 58 |
| 2097 | Spatially Enhanced Differential RNA Methylation Analysis from Affinity-Based Sequencing Data with Hidden Markov Model. 2015 , 2015, 852070 | 7 |
| 2096 | Probing RNA Modification Status at Single-Nucleotide Resolution in Total RNA. 2015 , 560, 149-59 | 28 |
| 2095 | The Arabidopsis epitranscriptome. 2015 , 27, 17-21 | 23 |
| 2094 | N(6)-methyladenosine Modulates Messenger RNA Translation Efficiency. 2015 , 161, 1388-99 | 1493 |
| 2093 | An association study of the m6A genes with major depressive disorder in Chinese Han population. 2015 , 183, 279-86 | 63 |
| 2092 | Non-homologous functions of the AlkB homologs. 2015 , 7, 494-504 | 36 |
| 2091 | N6-adenosine methylation in MiRNAs. 2015 , 10, e0118438 | 90 |
| 2090 | RNA 5-Methylcytosine Analysis by Bisulfite Sequencing. 2015 , 560, 297-329 | 29 |
| 2089 | Regulation of mRNA Levels by Decay-Promoting Introns that Recruit the Exosome Specificity Factor Mmi1. 2015 , 13, 2504-2515 | 44 |
| 2088 | Chemical Modifications Mark Alternatively Spliced and Uncapped Messenger RNAs in Arabidopsis. 2015 , 27, 3024-37 | 26 |
| 2087 | Posttranscriptional modification of messenger RNAs in eukaryotes. 2015 , 49, 825-836 | |
| 2086 | Sketching the distribution of transcriptomic features on RNA transcripts with Travis coordinates. 2015 , | |
| 2085 | Stem cells. m6A mRNA methylation facilitates resolution of naïve pluripotency toward differentiation. 2015 , 347, 1002-6 | 904 |

| | | |
|------|---|----------|
| 2084 | Meclofenamic acid selectively inhibits FTO demethylation of m6A over ALKBH5. 2015 , 43, 373-84 | 278 |
| 2083 | High-resolution N(6) -methyladenosine (m(6) A) map using photo-crosslinking-assisted m(6) A sequencing. 2015 , 54, 1587-90 | 249 |
| 2082 | m(6)A RNA methylation is regulated by microRNAs and promotes reprogramming to pluripotency. 2015 , 16, 289-301 | 367 |
| 2081 | Structure and thermodynamics of N6-methyladenosine in RNA: a spring-loaded base modification. 2015 , 137, 2107-15 | 244 |
| 2080 | Probing RNA-protein networks: biochemistry meets genomics. 2015 , 40, 157-64 | 35 |
| 2079 | Dynamic m 6 A modification and its emerging regulatory role in mRNA splicing. 2015 , 60, 21-32 | 20 |
| 2078 | N(6)-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. <i>Nature</i> , 2015 , 518, 560-4 | 50.4 988 |
| 2077 | Biochemie 2014. 2015 , 63, 306-314 | |
| 2076 | Emerging properties of nuclear RNP biogenesis and export. 2015 , 34, 46-53 | 10 |
| 2075 | The epigenetics of aging and neurodegeneration. 2015 , 131, 21-64 | 247 |
| 2074 | Chemical pulldown reveals dynamic pseudouridylation of the mammalian transcriptome. 2015 , 11, 592-7 | 295 |
| 2073 | Determination of DNA adenine methylation in genomes of mammals and plants by liquid chromatography/mass spectrometry. 2015 , 5, 64046-64054 | 57 |
| 2072 | High-Resolution Mapping of NEMethyladenosine in Transcriptome and Genome Using a Photo-Crosslinking-Assisted Strategy. 2015 , 560, 161-85 | 16 |
| 2071 | Simultaneous Quantification of Methylated Cytidine and Adenosine in Cellular and Tissue RNA by Nano-Flow Liquid Chromatography-Tandem Mass Spectrometry Coupled with the Stable Isotope-Dilution Method. 2015 , 87, 7653-9 | 42 |
| 2070 | Pseudo-Seq: Genome-Wide Detection of Pseudouridine Modifications in RNA. 2015 , 560, 219-45 | 31 |
| 2069 | ARM-seq: AlkB-facilitated RNA methylation sequencing reveals a complex landscape of modified tRNA fragments. 2015 , 12, 879-84 | 239 |
| 2068 | RNA N6-methyladenosine methylation in post-transcriptional gene expression regulation. 2015 , 29, 1343-55 | 514 |
| 2067 | Widespread occurrence of N6-methyladenosine in bacterial mRNA. 2015 , 43, 6557-67 | 117 |

| | | |
|------|---|----------|
| 2066 | Genome-wide detection of high abundance N6-methyladenosine sites by microarray. 2015 , 21, 1511-8 | 11 |
| 2065 | Preparation of Human Nuclear RNA m ⁶ A Methyltransferases and Demethylases and Biochemical Characterization of Their Catalytic Activity. 2015 , 560, 117-30 | 3 |
| 2064 | O6-Methylguanosine leads to position-dependent effects on ribosome speed and fidelity. 2015 , 21, 1648-59 | 29 |
| 2063 | Transcriptome-Wide Mapping of N6-Methyladenosine by m ⁶ A-Seq. 2015 , 560, 131-47 | 16 |
| 2062 | Electrochemical immunosensor for N6-methyladenosine RNA modification detection. 2015 , 221, 1-6 | 26 |
| 2061 | Single-nucleotide-resolution mapping of m6A and m6Am throughout the transcriptome. 2015 , 12, 767-72 | 774 |
| 2060 | MeT-DB: a database of transcriptome methylation in mammalian cells. 2015 , 43, D197-203 | 43 |
| 2059 | FTO influences adipogenesis by regulating mitotic clonal expansion. 2015 , 6, 6792 | 142 |
| 2058 | Fate by RNA methylation: m6A steers stem cell pluripotency. 2015 , 16, 43 | 64 |
| 2057 | -Hydroperoxymethyladenosine: a new intermediate of chemical oxidation of -methyladenosine mediated by bicarbonate-activated hydrogen peroxide. 2015 , 6, 3013-3017 | 12 |
| 2056 | RNA-binding proteins in neurodegeneration: Seq and you shall receive. 2015 , 38, 226-36 | 73 |
| 2055 | DNA Methylation on N6-Adenine in <i>C. elegans</i> . 2015 , 161, 868-78 | 424 |
| 2054 | N6-methyldeoxyadenosine marks active transcription start sites in <i>Chlamydomonas</i> . 2015 , 161, 879-892 | 316 |
| 2053 | N6-methyladenosine marks primary microRNAs for processing. <i>Nature</i> , 2015 , 519, 482-5 | 50.4 697 |
| 2052 | Increased expression of X-linked genes in mammals is associated with a higher stability of transcripts and an increased ribosome density. 2015 , 7, 1039-52 | 21 |
| 2051 | Epigenetics: major regulators of embryonic neurogenesis. 2015 , 60, 1734-1743 | 4 |
| 2050 | A majority of m6A residues are in the last exons, allowing the potential for 3' UTR regulation. 2015 , 29, 2037-53 | 433 |
| 2049 | N-heterocyclic carbene copper(I) catalysed N-methylation of amines using CO ₂ . 2015 , 44, 18138-44 | 71 |

| | | |
|------|--|----------|
| 2048 | 5' UTR m(6)A Promotes Cap-Independent Translation. 2015 , 163, 999-1010 | 933 |
| 2047 | DNA N(6)-methyladenine: a new epigenetic mark in eukaryotes?. 2015 , 16, 705-10 | 157 |
| 2046 | Coordination of m(6)A mRNA Methylation and Gene Transcription by ZFP217 Regulates Pluripotency and Reprogramming. 2015 , 17, 689-704 | 185 |
| 2045 | Variable presence of 5-methylcytosine in commercial RNA and DNA. 2015 , 12, 1152-8 | 13 |
| 2044 | Transcriptome-Wide Identification of Pseudouridine Modifications Using Pseudo-seq. 2015 , 112, 4.25.1-4.25.24 | |
| 2043 | NSun2 Promotes Cell Growth via Elevating Cyclin-Dependent Kinase 1 Translation. 2015 , 35, 4043-52 | 62 |
| 2042 | Fluorescein Derivatives as Bifunctional Molecules for the Simultaneous Inhibiting and Labeling of FTO Protein. 2015 , 137, 13736-9 | 59 |
| 2041 | Dynamic m(6)A mRNA methylation directs translational control of heat shock response. <i>Nature</i> , 2015 , 526, 591-4 | 50.4 723 |
| 2040 | IRNA-Methyl: Identifying N(6)-methyladenosine sites using pseudo nucleotide composition. 2015 , 490, 26-33 | 276 |
| 2039 | Specificity and nonspecificity in RNA-protein interactions. 2015 , 16, 533-44 | 149 |
| 2038 | Transcriptome-wide dynamics of RNA pseudouridylation. 2015 , 16, 581-5 | 75 |
| 2037 | HNRNPA2B1 Is a Mediator of m(6)A-Dependent Nuclear RNA Processing Events. 2015 , 162, 1299-308 | 676 |
| 2036 | The Maternal-to-Zygotic Transition During Vertebrate Development: A Model for Reprogramming. 2015 , 113, 191-232 | 66 |
| 2035 | Circadian rhythm of RNA N6-methyladenosine and the role of cryptochrome. 2015 , 465, 88-94 | 27 |
| 2034 | Modeling of replicates variances for detecting RNA methylation site in MERIP-SEQ data. 2015 , | |
| 2033 | Structural basis of asymmetric DNA methylation and ATP-triggered long-range diffusion by EcoP15I. 2015 , 6, 7363 | 33 |
| 2032 | Structural Basis for the Discriminative Recognition of N6-Methyladenosine RNA by the Human YT521-B Homology Domain Family of Proteins. 2015 , 290, 24902-13 | 136 |
| 2031 | Long Noncoding RNAs as Targets and Regulators of Nuclear Receptors. 2016 , 394, 143-76 | 10 |

| | | |
|------|--|-----|
| 2030 | THE GENETICS OF EPIGENETIC INHERITANCE: MODES, MOLECULES, AND MECHANISMS. 2015 , 90, 381-415 | 38 |
| 2029 | Bidirectional Direct Sequencing of Noncanonical RNA by Two-Dimensional Analysis of Mass Chromatograms. 2015 , 137, 14430-8 | 16 |
| 2028 | Role of the N6-methyladenosine RNA mark in gene regulation and its implications on development and disease. 2015 , 14, 169-79 | 51 |
| 2027 | Oxidative C β bond cleavage reaction of DMSO for C α N and C α C bond formation: new Mannich-type reaction for amino ketones. 2015 , 5, 3094-3097 | 25 |
| 2026 | RNA editing, epitranscriptomics, and processing in cancer progression. 2015 , 16, 21-7 | 15 |
| 2025 | FTO: linking m6A demethylation to adipogenesis. 2015 , 25, 3-4 | 66 |
| 2024 | Decreased N(6)-methyladenosine in peripheral blood RNA from diabetic patients is associated with FTO expression rather than ALKBH5. 2015 , 100, E148-54 | 116 |
| 2023 | Pseudouridine in a new era of RNA modifications. 2015 , 25, 153-4 | 41 |
| 2022 | miRNA and methylation: a multifaceted liaison. 2015 , 16, 195-203 | 57 |
| 2021 | RNA epigenetics. 2015 , 165, 28-35 | 86 |
| 2020 | Decomposition of RNA methylome reveals co-methylation patterns induced by latent enzymatic regulators of the epitranscriptome. 2015 , 11, 262-74 | 20 |
| 2019 | Circadian genomics reveal a role for post-transcriptional regulation in mammals. 2015 , 54, 124-33 | 37 |
| 2018 | Advanced mass spectrometry-based multi-omics technologies for exploring the pathogenesis of hepatocellular carcinoma. 2016 , 35, 331-49 | 31 |
| 2017 | Guitar: An R/Bioconductor Package for Gene Annotation Guided Transcriptomic Analysis of RNA-Related Genomic Features. 2016 , 2016, 8367534 | 48 |
| 2016 | ADAR1 is vital for B cell lineage development in the mouse bone marrow. 2016 , 7, 54370-54379 | 16 |
| 2015 | N(6)-methyladenosine of HIV-1 RNA regulates viral infection and HIV-1 Gag protein expression. 2016 , 5, | 167 |
| 2014 | Mouse Maternal High-Fat Intake Dynamically Programmed mRNA m ⁶ A Modifications in Adipose and Skeletal Muscle Tissues in Offspring. 2016 , 17, | 26 |
| 2013 | Landmarks in the Evolution of (t)-RNAs from the Origin of Life up to Their Present Role in Human Cognition. 2015 , 6, | 1 |

| | | |
|------|--|----------|
| 2012 | m6A-Driver: Identifying Context-Specific mRNA m6A Methylation-Driven Gene Interaction Networks. 2016 , 12, e1005287 | 25 |
| 2011 | Hepatic expression of FTO and fatty acid metabolic genes changes in response to lipopolysaccharide with alterations in mA modification of relevant mRNAs in the chicken. 2016 , 57, 628-635 | 10 |
| 2010 | Reparameterizations of the Torsion and Lennard-Jones Parameters Improve the Conformational Characteristics of Modified Uridines. 2016 , 37, 1576-88 | 7 |
| 2009 | Structural Basis for Cooperative Function of Mettl3 and Mettl14 Methyltransferases. 2016 , 63, 306-317 | 478 |
| 2008 | m(6)A-LAIC-seq reveals the census and complexity of the m(6)A epitranscriptome. 2016 , 13, 692-8 | 211 |
| 2007 | An Efficient Synthesis of Polysubstituted Pyridines via C2H Oxidation and C2S Cleavage of Dimethyl Sulfoxide. 2016 , 358, 218-225 | 60 |
| 2006 | N(6)-Methyladenosine RNA Modification Regulates Shoot Stem Cell Fate in Arabidopsis. 2016 , 38, 186-200 | 164 |
| 2005 | The molecular choreography of protein synthesis: translational control, regulation, and pathways. 2016 , 49, e11 | 11 |
| 2004 | Identification of consensus binding sites clarifies FMRP binding determinants. 2016 , 44, 6649-59 | 41 |
| 2003 | Eine biokatalytische Kaskade für die vielseitige Eintopf-Modifizierung von mRNA ausgehend von Methioninanaloga. 2016 , 128, 1951-1954 | 23 |
| 2002 | mA modulates neuronal functions and sex determination in Drosophila. <i>Nature</i> , 2016 , 540, 242-247 | 50.4 291 |
| 2001 | mA potentiates Sxl alternative pre-mRNA splicing for robust Drosophila sex determination. <i>Nature</i> , 2016 , 540, 301-304 | 50.4 314 |
| 2000 | A hierarchical model for clustering m(6)A methylation peaks in MeRIP-seq data. 2016 , 17 Suppl 7, 520 | 12 |
| 1999 | High-throughput identification of C/D box snoRNA targets with CLIP and RiboMeth-seq. 2017 , 45, 2341-2353 | 34 |
| 1998 | Beyond the Triplet Code: Context Cues Transform Translation. 2016 , 167, 1681-1692 | 41 |
| 1997 | Structural basis of N(6)-adenosine methylation by the METTL3-METTL14 complex. <i>Nature</i> , 2016 , 534, 575-8 | 50.4 476 |
| 1996 | N(6)-Methyladenosine Methyltransferases and Demethylases: New Regulators of Stem Cell Pluripotency and Differentiation. 2016 , 25, 1050-9 | 12 |
| 1995 | Nucleoside modifications in the regulation of gene expression: focus on tRNA. 2016 , 73, 3075-95 | 82 |

| | | |
|------|---|----------|
| 1994 | ALKBHs-facilitated RNA modifications and de-modifications. 2016 , 44, 87-91 | 38 |
| 1993 | WITHDRAWN: ALKBHs-facilitated RNA modifications and de-modifications. 2016 , | |
| 1992 | Recent advances in dynamic m6A RNA modification. 2016 , 6, 160003 | 164 |
| 1991 | N6-methyladenosine modification in mRNA: machinery, function and implications for health and diseases. 2016 , 283, 1607-30 | 121 |
| 1990 | Nuclear m(6)A Reader YTHDC1 Regulates mRNA Splicing. 2016 , 32, 320-321 | 71 |
| 1989 | Long Non-coding RNAs in Human Disease. 2016 , | 3 |
| 1988 | Rapid and dynamic transcriptome regulation by RNA editing and RNA modifications. 2016 , 213, 15-22 | 75 |
| 1987 | The Properties of Long Noncoding RNAs That Regulate Chromatin. 2016 , 17, 69-94 | 61 |
| 1986 | RNA modifications: what have we learned and where are we headed?. 2016 , 17, 365-72 | 144 |
| 1985 | Posttranscriptional m(6)A Editing of HIV-1 mRNAs Enhances Viral Gene Expression. 2016 , 19, 675-85 | 198 |
| 1984 | New frontiers in translational control of the cancer genome. 2016 , 16, 288-304 | 192 |
| 1983 | The m(6)A Methyltransferase METTL3 Promotes Translation in Human Cancer Cells. 2016 , 62, 335-345 | 772 |
| 1982 | N (6)-Methyladenosine (m(6)A) Methylation in mRNA with A Dynamic and Reversible Epigenetic Modification. 2016 , 58, 450-9 | 72 |
| 1981 | Viruses, Mark Thy Message Well. 2016 , 19, 568-70 | 1 |
| 1980 | tRNA base methylation identification and quantification via high-throughput sequencing. 2016 , 22, 1771-1784 | 100 |
| 1979 | Identifying N -methyladenosine sites in the Arabidopsis thaliana transcriptome. 2016 , 291, 2225-2229 | 37 |
| 1978 | m(6)A RNA methylation promotes XIST-mediated transcriptional repression. <i>Nature</i> , 2016 , 537, 369-373 | 50.4 781 |
| 1977 | Uridylation Earmarks mRNAs for Degradation and More. 2016 , 32, 607-619 | 22 |

| | | |
|------|--|-----|
| 1976 | Evolving insights into RNA modifications and their functional diversity in the brain. 2016 , 19, 1292-8 | 49 |
| 1975 | An integrated, structure- and energy-based view of the genetic code. 2016 , 44, 8020-40 | 142 |
| 1974 | A general protocol for the reductive N-methylation of amines using dimethyl carbonate and molecular hydrogen: mechanistic insights and kinetic studies. 2016 , 6, 7956-7966 | 51 |
| 1973 | Post-Transcriptional Modifications of RNA: Impact on RNA Function and Human Health. 2016 , 91-130 | 3 |
| 1972 | RNA Modification N6-Methyladenosine in Post-transcriptional Regulation. 2016 , 131-145 | 1 |
| 1971 | Methods for Determination of 2'-O-Me in RNA. 2016 , 187-205 | |
| 1970 | A glance at N(6)-methyladenosine in transcript isoforms. 2016 , 13, 624-5 | 1 |
| 1969 | Deciphering the epitranscriptome: A green perspective. 2016 , 58, 822-835 | 30 |
| 1968 | Adenine methylation in eukaryotes: Apprehending the complex evolutionary history and functional potential of an epigenetic modification. 2016 , 38, 27-40 | 93 |
| 1967 | Modified Nucleic Acids in Biology and Medicine. 2016 , | 2 |
| 1966 | A position-specific 3'UTR sequence that accelerates mRNA decay. 2016 , 13, 1075-1077 | 16 |
| 1965 | AthMethPre: a web server for the prediction and query of mRNA m ⁶ A sites in <i>Arabidopsis thaliana</i> . 2016 , 12, 3333-3337 | 35 |
| 1964 | TargetM6A: Identifying N-Methyladenosine Sites From RNA Sequences via Position-Specific Nucleotide Propensities and a Support Vector Machine. 2016 , 15, 674-682 | 51 |
| 1963 | Genome-Wide Analysis of RNA Secondary Structure. 2016 , 50, 235-266 | 146 |
| 1962 | Epigenetic regulation of axonal regenerative capacity. 2016 , 8, 1429-1442 | 20 |
| 1961 | Structures of the m(6)A Methyltransferase Complex: Two Subunits with Distinct but Coordinated Roles. 2016 , 63, 183-185 | 22 |
| 1960 | New Edges of RNA Adenosine Methylation Modifications. 2016 , 14, 172-175 | 1 |
| 1959 | ALKBH1-Mediated tRNA Demethylation Regulates Translation. 2016 , 167, 816-828.e16 | 197 |

| | | |
|------|---|-----|
| 1958 | Dynamics of the human and viral m(6)A RNA methylomes during HIV-1 infection of T cells. 2016 , 1, 16011 | 262 |
| 1957 | Reconstitution of Targeted Deadenylation by the Ccr4-Not Complex and the YTH Domain Protein Mmi1. 2016 , 17, 1978-1989 | 40 |
| 1956 | Small RNA Modifications: Integral to Function and Disease. 2016 , 22, 1025-1034 | 62 |
| 1955 | N6-Methyladenine: A Conserved and Dynamic DNA Mark. 2016 , 945, 213-246 | 68 |
| 1954 | Characterization of eukaryotic DNA N(6)-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. 2016 , 7, 11301 | 62 |
| 1953 | Cajal body function in genome organization and transcriptome diversity. 2016 , 38, 1197-1208 | 42 |
| 1952 | Nucleotide modifications in messenger RNA and their role in development and disease. 2016 , 44, 1385-1393 | 23 |
| 1951 | Update: Mechanisms Underlying N-Methyladenosine Modification of Eukaryotic mRNA. 2016 , 32, 763-773 | 34 |
| 1950 | N(6)-Methyladenosine: a conformational marker that regulates the substrate specificity of human demethylases FTO and ALKBH5. 2016 , 6, 25677 | 84 |
| 1949 | Post-transcriptional modifications in development and stem cells. 2016 , 143, 3871-3881 | 48 |
| 1948 | Fluoride-Catalyzed Methylation of Amines by Reductive Functionalization of CO with Hydrosilanes. 2016 , 22, 16489-16493 | 84 |
| 1947 | Dynamics of Human and Viral RNA Methylation during Zika Virus Infection. 2016 , 20, 666-673 | 221 |
| 1946 | N6-Methyladenosine in Flaviviridae Viral RNA Genomes Regulates Infection. 2016 , 20, 654-665 | 244 |
| 1945 | YTHDF2 destabilizes m(6)A-containing RNA through direct recruitment of the CCR4-NOT deadenylase complex. 2016 , 7, 12626 | 583 |
| 1944 | A Method for Measuring RNA N 6-methyladenosine Modifications in Cells and Tissues. 2016 , | 6 |
| 1943 | A Biocatalytic Cascade for Versatile One-Pot Modification of mRNA Starting from Methionine Analogues. 2016 , 55, 1917-20 | 47 |
| 1942 | Computational Tools for Stem Cell Biology. 2016 , 34, 993-1009 | 27 |
| 1941 | RNA-MethylPred: A high-accuracy predictor to identify N6-methyladenosine in RNA. 2016 , 510, 72-75 | 38 |

| | | |
|------|---|-----|
| 1940 | A novel algorithm for calling mRNA m6A peaks by modeling biological variances in MeRIP-seq data. 2016 , 32, i378-i385 | 48 |
| 1939 | Experience-Dependent Accumulation of N6-Methyladenosine in the Prefrontal Cortex Is Associated with Memory Processes in Mice. 2016 , 36, 6771-7 | 130 |
| 1938 | Messenger RNA modifications: Form, distribution, and function. 2016 , 352, 1408-12 | 342 |
| 1937 | Improving N(6)-methyladenosine site prediction with heuristic selection of nucleotide physical-chemical properties. 2016 , 508, 104-13 | 30 |
| 1936 | A Ribosomal Perspective on Proteostasis and Aging. 2016 , 23, 1004-1012 | 79 |
| 1935 | m(6)A: Signaling for mRNA splicing. 2016 , 13, 756-9 | 65 |
| 1934 | mRNA modifications: Dynamic regulators of gene expression?. 2016 , 13, 760-5 | 30 |
| 1933 | Illumina-based RiboMethSeq approach for mapping of 2'-O-Me residues in RNA. 2016 , 44, e135 | 116 |
| 1932 | An epigenetic view of developmental diseases: new targets, new therapies. 2016 , 12, 291-297 | 12 |
| 1931 | Emerging roles of RNA modifications in bacteria. 2016 , 30, 50-57 | 45 |
| 1930 | Synthesis of 5-Hydroxymethylcytidine- and 5-Hydroxymethyl-uridine-Modified RNA. 2016 , 48, 1108-1116 | 8 |
| 1929 | Cracking the epitranscriptome. 2016 , 22, 169-74 | 59 |
| 1928 | Sequencing of FTO and ALKBH5 in men undergoing infertility work-up identifies an infertility-associated variant and two missense mutations. 2016 , 105, 1170-1179.e5 | 25 |
| 1927 | RNA biochemistry. Transcriptome-wide distribution and function of RNA hydroxymethylcytosine. 2016 , 351, 282-5 | 247 |
| 1926 | Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin. 2016 , 351, 285-9 | 187 |
| 1925 | Epigenetic regulation of early neural fate commitment. 2016 , 73, 1399-411 | 11 |
| 1924 | The emerging epitranscriptomics of long noncoding RNAs. 2016 , 1859, 59-70 | 57 |
| 1923 | High-throughput sequencing for 1-methyladenosine (m(1)A) mapping in RNA. 2016 , 107, 110-21 | 35 |

| | | |
|------|--|----------|
| 1922 | Bacterial Riboswitches and Ribozymes Potently Activate the Human Innate Immune Sensor PKR. 2016 , 11, 1118-27 | 13 |
| 1921 | Hypoxia induces the breast cancer stem cell phenotype by HIF-dependent and ALKBH5-mediated m ⁶ A-demethylation of NANOG mRNA. 2016 , 113, E2047-56 | 579 |
| 1920 | Nuclear m(6)A Reader YTHDC1 Regulates mRNA Splicing. 2016 , 61, 507-519 | 847 |
| 1919 | -Methyladenine hinders RNA- and DNA-directed DNA synthesis: application in human rRNA methylation analysis of clinical specimens. 2016 , 7, 1440-1446 | 39 |
| 1918 | The dynamic N(1)-methyladenosine methylome in eukaryotic messenger RNA. <i>Nature</i> , 2016 , 530, 441-6 | 50.4 523 |
| 1917 | Transcriptome-wide mapping reveals reversible and dynamic N(1)-methyladenosine methylome. 2016 , 12, 311-6 | 337 |
| 1916 | DRME: Count-based differential RNA methylation analysis at small sample size scenario. 2016 , 499, 15-23 | 12 |
| 1915 | Nucleic Acid Modifications in Regulation of Gene Expression. 2016 , 23, 74-85 | 155 |
| 1914 | N6-methyladenosine-encoded epitranscriptomics. 2016 , 23, 98-102 | 188 |
| 1913 | RNA Splicing: Regulation and Dysregulation in the Heart. 2016 , 118, 454-68 | 52 |
| 1912 | Fast Optical Chemical and Structural Classification of RNA. 2016 , 10, 2834-42 | 41 |
| 1911 | NSun2 Deficiency Protects Endothelium From Inflammation via mRNA Methylation of ICAM-1. 2016 , 118, 944-56 | 42 |
| 1910 | Understanding the genetic liability to schizophrenia through the neuroepigenome. 2016 , 177, 115-124 | 19 |
| 1909 | RNA binding proteins implicated in Xist-mediated chromosome silencing. 2016 , 56, 58-70 | 27 |
| 1908 | Posttranscriptional methylation of transfer and ribosomal RNA in stress response pathways, cell differentiation, and cancer. 2016 , 28, 65-71 | 41 |
| 1907 | SRAMP: prediction of mammalian N6-methyladenosine (m6A) sites based on sequence-derived features. 2016 , 44, e91 | 259 |
| 1906 | NIPBL Controls RNA Biogenesis to Prevent Activation of the Stress Kinase PKR. 2016 , 14, 93-102 | 23 |
| 1905 | pRNAm-PC: Predicting N(6)-methyladenosine sites in RNA sequences via physical-chemical properties. 2016 , 497, 60-7 | 213 |

| | | |
|------|---|----------|
| 1904 | m(6)A: A novel hallmark of translation. 2016 , 15, 309-10 | 5 |
| 1903 | A novel RNA-binding mode of the YTH domain reveals the mechanism for recognition of determinant of selective removal by Mmi1. 2016 , 44, 969-82 | 36 |
| 1902 | Identification of a pathogenic FTO mutation by next-generation sequencing in a newborn with growth retardation and developmental delay. 2016 , 53, 200-7 | 36 |
| 1901 | N(6)-methyladenosine in mRNA disrupts tRNA selection and translation-elongation dynamics. 2016 , 23, 110-5 | 139 |
| 1900 | N6-Methylated Adenosine in RNA: From Bacteria to Humans. 2016 , 428, 2134-45 | 19 |
| 1899 | Evolution and Biological Roles of Alternative 3'UTRs. 2016 , 26, 227-237 | 174 |
| 1898 | RNA epigenetics--chemical messages for posttranscriptional gene regulation. 2016 , 30, 46-51 | 91 |
| 1897 | Circadian mRNA expression: insights from modeling and transcriptomics. 2016 , 73, 497-521 | 23 |
| 1896 | N(6)-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. 2016 , 428, 822-833 | 122 |
| 1895 | A deep learning framework for modeling structural features of RNA-binding protein targets. 2016 , 44, e32 | 152 |
| 1894 | Nucleotide-Level Profiling of m ⁶ A RNA Methylation. 2016 , 1358, 269-84 | 9 |
| 1893 | Preface. 2016 , 1358, v-viii | 2 |
| 1892 | RMBase: a resource for decoding the landscape of RNA modifications from high-throughput sequencing data. 2016 , 44, D259-65 | 121 |
| 1891 | MethyRNA: a web server for identification of N-methyladenosine sites. 2017 , 35, 683-687 | 86 |
| 1890 | txCoords: A Novel Web Application for Transcriptomic Peak Re-Mapping. 2017 , 14, 746-748 | 3 |
| 1889 | ADAR1 deletion induces NFB and interferon signaling dependent liver inflammation and fibrosis. 2017 , 14, 587-602 | 25 |
| 1888 | Chemical and structural effects of base modifications in messenger RNA. <i>Nature</i> , 2017 , 541, 339-346 | 50.4 118 |
| 1887 | Cytoplasmic mA reader YTHDF3 promotes mRNA translation. 2017 , 27, 444-447 | 390 |

| | | |
|------|---|--------|
| 1886 | TRUB1 is the predominant pseudouridine synthase acting on mammalian mRNA via a predictable and conserved code. 2017 , 27, 393-406 | 61 |
| 1885 | YTHDF3 facilitates translation and decay of N-methyladenosine-modified RNA. 2017 , 27, 315-328 | 696 |
| 1884 | RNA modifications and structures cooperate to guide RNA-protein interactions. 2017 , 18, 202-210 | 153 |
| 1883 | Comparative and integrative analysis of RNA structural profiling data: current practices and emerging questions. 2017 , 5, 3-24 | 25 |
| 1882 | Intersections of post-transcriptional gene regulatory mechanisms with intermediary metabolism. 2017 , 1860, 349-362 | 10 |
| 1881 | Distinct 5-methylcytosine profiles in poly(A) RNA from mouse embryonic stem cells and brain. 2017 , 18, 1 | 268 |
| 1880 | Human mA writers: Two subunits, 2 roles. 2017 , 14, 300-304 | 51 |
| 1879 | The RNA code comes into focus. <i>Nature</i> , 2017 , 542, 503-506 | 50.4 9 |
| 1878 | The Role of The RNA Demethylase FTO (Fat Mass and Obesity-Associated) and mRNA Methylation in Hippocampal Memory Formation. 2017 , 42, 1502-1510 | 88 |
| 1877 | Detecting RNA modifications in the epitranscriptome: predict and validate. 2017 , 18, 275-291 | 327 |
| 1876 | Epitranscriptomic regulation of viral replication. 2017 , 1860, 460-471 | 12 |
| 1875 | Extensive translation of circular RNAs driven by N-methyladenosine. 2017 , 27, 626-641 | 891 |
| 1874 | Antibodies specific for nucleic acid modifications. 2017 , 14, 1089-1098 | 23 |
| 1873 | NSUN2-Mediated m5C Methylation and METTL3/METTL14-Mediated m6A Methylation Cooperatively Enhance p21 Translation. 2017 , 118, 2587-2598 | 106 |
| 1872 | Carboxylate-promoted reductive functionalization of CO2 with amines and hydrosilanes under mild conditions. 2017 , 19, 1726-1731 | 68 |
| 1871 | Detecting N-methyladenosine sites from RNA transcriptomes using ensemble Support Vector Machines. 2017 , 7, 40242 | 85 |
| 1870 | Genetic alterations of mA regulators predict poorer survival in acute myeloid leukemia. 2017 , 10, 39 | 145 |
| 1869 | Regulatory Role of N -methyladenosine (m A) Methylation in RNA Processing and Human Diseases. 2017 , 118, 2534-2543 | 79 |

| | | | |
|------|---|------|-----|
| 1868 | mA-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. <i>Nature</i> , 2017 , 542, 475-478 | 50.4 | 293 |
| 1867 | N1-methyl-pseudouridine in mRNA enhances translation through eIF2 β -dependent and independent mechanisms by increasing ribosome density. 2017 , 45, 6023-6036 | | 97 |
| 1866 | Fat mass and obesity-associated (FTO) protein regulates adult neurogenesis. 2017 , 26, 2398-2411 | | 134 |
| 1865 | N6-methyladenosine alters RNA structure to regulate binding of a low-complexity protein. 2017 , 45, 6051-6063 | | 339 |
| 1864 | AlkB homolog 3-mediated tRNA demethylation promotes protein synthesis in cancer cells. 2017 , 7, 42271 | | 127 |
| 1863 | RNA editing-dependent epitranscriptome diversity in cancer stem cells. 2017 , 17, 381-392 | | 57 |
| 1862 | 5-methylcytosine promotes mRNA export - NSUN2 as the methyltransferase and ALYREF as an mC reader. 2017 , 27, 606-625 | | 358 |
| 1861 | Identification of factors required for m ⁶ A mRNA methylation in Arabidopsis reveals a role for the conserved E3 ubiquitin ligase HAKAI. 2017 , 215, 157-172 | | 163 |
| 1860 | Widespread adenine N6-methylation of active genes in fungi. 2017 , 49, 964-968 | | 181 |
| 1859 | Dynamic basis of fidelity and speed in translation: Coordinated multistep mechanisms of elongation and termination. 2017 , 26, 1352-1362 | | 15 |
| 1858 | m ⁶ A in mRNA: An Ancient Mechanism for Fine-Tuning Gene Expression. 2017 , 33, 380-390 | | 222 |
| 1857 | Charting the unknown epitranscriptome. 2017 , 18, 339-340 | | 30 |
| 1856 | Brothers in arms: emerging roles of RNA epigenetics in DNA damage repair. 2017 , 7, 24 | | 7 |
| 1855 | PROBER Provides a General Toolkit for Analyzing Sequencing-Based Toeprinting Assays. 2017 , 4, 568-574.e7 | | 13 |
| 1854 | Identifying N-methyladenosine sites using multi-interval nucleotide pair position specificity and support vector machine. 2017 , 7, 46757 | | 49 |
| 1853 | Promiscuity in post-transcriptional control of gene expression: <i>Drosophila</i> sex-lethal and its regulatory partnerships. 2017 , 591, 1471-1488 | | 18 |
| 1852 | Identification of N-methyladenosine reader proteins. 2017 , 126, 105-111 | | 4 |
| 1851 | Transcriptome-wide N ⁶ -methyladenosine methylome profiling of porcine muscle and adipose tissues reveals a potential mechanism for transcriptional regulation and differential methylation pattern. 2017 , 18, 336 | | 27 |

| | | |
|------|--|------|
| 1850 | More than just scanning: the importance of cap-independent mRNA translation initiation for cellular stress response and cancer. 2017 , 74, 1659-1680 | 68 |
| 1849 | Dynamic RNA Modifications in Gene Expression Regulation. 2017 , 169, 1187-1200 | 1250 |
| 1848 | Sensing Self and Foreign Circular RNAs by Intron Identity. 2017 , 67, 228-238.e5 | 226 |
| 1847 | -methyladenosine is required for the hypoxic stabilization of specific mRNAs. 2017 , 23, 1444-1455 | 61 |
| 1846 | Control of box C/D snoRNP assembly by N-methylation of adenine. 2017 , 18, 1631-1645 | 32 |
| 1845 | Readers, writers and erasers of N-methylated adenosine modification. 2017 , 47, 67-76 | 51 |
| 1844 | The U6 snRNA mA Methyltransferase METTL16 Regulates SAM Synthetase Intron Retention. 2017 , 169, 824-835.e14 | 445 |
| 1843 | mA mRNA modifications are deposited in nascent pre-mRNA and are not required for splicing but do specify cytoplasmic turnover. 2017 , 31, 990-1006 | 290 |
| 1842 | Settling the mA debate: methylation of mature mRNA is not dynamic but accelerates turnover. 2017 , 31, 957-958 | 27 |
| 1841 | MetaPlotR: a Perl/R pipeline for plotting metagenes of nucleotide modifications and other transcriptomic sites. 2017 , 33, 1563-1564 | 58 |
| 1840 | Kaposi's Sarcoma-Associated Herpesvirus Utilizes and Manipulates RNA N-Adenosine Methylation To Promote Lytic Replication. 2017 , 91, | 70 |
| 1839 | The RNA Modification N-methyladenosine and Its Implications in Human Disease. 2017 , 15, 154-163 | 96 |
| 1838 | 5-methylcytosine mediates nuclear export of mRNA. 2017 , 27, 717-719 | 14 |
| 1837 | RCAS: an RNA centric annotation system for transcriptome-wide regions of interest. 2017 , 45, e91 | 13 |
| 1836 | Label-free, direct localization and relative quantitation of the RNA nucleobase methylations m6A, m5C, m3U, and m5U by top-down mass spectrometry. 2017 , 45, 8014-8025 | 32 |
| 1835 | Understanding RNA modifications: the promises and technological bottlenecks of the 'epitranscriptome'. 2017 , 7, | 63 |
| 1834 | Making the Mark: The Role of Adenosine Modifications in the Life Cycle of RNA Viruses. 2017 , 21, 661-669 | 50 |
| 1833 | Epitranscriptomics: Toward A Better Understanding of RNA Modifications. 2017 , 15, 147-153 | 18 |

| | | |
|------|--|------|
| 1832 | DRD2: Bridging the Genome and Ingestive Behavior. 2017 , 21, 372-384 | 22 |
| 1831 | On the design and prospects of direct RNA sequencing. 2017 , 16, 326-335 | 15 |
| 1830 | iRNA-PseColl: Identifying the Occurrence Sites of Different RNA Modifications by Incorporating Collective Effects of Nucleotides into PseKNC. 2017 , 7, 155-163 | 228 |
| 1829 | Detection of 5-Methylcytosine in Specific Poly(A) RNAs by Bisulfite Sequencing. 2017 , 1562, 107-121 | 8 |
| 1828 | Transcription Impacts the Efficiency of mRNA Translation via Co-transcriptional N6-adenosine Methylation. 2017 , 169, 326-337.e12 | 234 |
| 1827 | mA Demethylase ALKBH5 Maintains Tumorigenicity of Glioblastoma Stem-like Cells by Sustaining FOXM1 Expression and Cell Proliferation Program. 2017 , 31, 591-606.e6 | 734 |
| 1826 | Circ-ZNF609 Is a Circular RNA that Can Be Translated and Functions in Myogenesis. 2017 , 66, 22-37.e9 | 1146 |
| 1825 | RNA Methylation. 2017 , | 1 |
| 1824 | Dynamic RNA-protein interactions underlie the zebrafish maternal-to-zygotic transition. 2017 , 27, 1184-1194 | 34 |
| 1823 | Mark it for destruction: a novel role of mRNA methylation in maternal-to-zygotic transition \square 2017 , 96, 829-830 | |
| 1822 | Mapping mA at Individual-Nucleotide Resolution Using Crosslinking and Immunoprecipitation (miCLIP). 2017 , 1562, 55-78 | 45 |
| 1821 | Epigenetic modification of nucleic acids: from basic studies to medical applications. 2017 , 46, 2844-2872 | 89 |
| 1820 | A fly view on the roles and mechanisms of the mA mRNA modification and its players. 2017 , 14, 1232-1240 | 27 |
| 1819 | Liquid Chromatography-Mass Spectrometry for Analysis of RNA Adenosine Methylation. 2017 , 1562, 33-42 | 16 |
| 1818 | Genome-Wide Location Analyses of N6-Methyladenosine Modifications (mA-Seq). 2017 , 1562, 45-53 | 15 |
| 1817 | Illustrating the Epitranscriptome at Nucleotide Resolution Using Methylation-iCLIP (miCLIP). 2017 , 1562, 91-106 | 10 |
| 1816 | In Silico Identification of RNA Modifications from High-Throughput Sequencing Data Using HAMR. 2017 , 1562, 211-229 | 8 |
| 1815 | mA RNA Methylation Regulates the Self-Renewal and Tumorigenesis of Glioblastoma Stem Cells. 2017 , 18, 2622-2634 | 656 |

| | | | |
|------|--|------|-----|
| 1814 | RNA m ^A methylation regulates the ultraviolet-induced DNA damage response. <i>Nature</i> , 2017 , 543, 573-576. | 50.4 | 449 |
| 1813 | The Profile and Dynamics of RNA Modifications in Animals. 2017 , 18, 979-984 | | 23 |
| 1812 | The Epitranscriptome of Noncoding RNAs in Cancer. 2017 , 7, 359-368 | | 104 |
| 1811 | FTO Plays an Oncogenic Role in Acute Myeloid Leukemia as a N-Methyladenosine RNA Demethylase. 2017 , 31, 127-141 | | 736 |
| 1810 | Lipid peroxidation in face of DNA damage, DNA repair and other cellular processes. 2017 , 107, 77-89 | | 45 |
| 1809 | Epitranscriptome sequencing technologies: decoding RNA modifications. 2016 , 14, 23-31 | | 241 |
| 1808 | Reversible RNA modifications in meiosis and pluripotency. 2016 , 14, 18-22 | | 20 |
| 1807 | Epitranscriptomics: mixed messages. 2017 , 14, 15-17 | | 6 |
| 1806 | Epitranscriptome: m ⁶ A and its function in stem cell biology. 2017 , 39, 371-378 | | 3 |
| 1805 | Cytosine-5 RNA Methylation Regulates Neural Stem Cell Differentiation and Motility. 2017 , 8, 112-124 | | 86 |
| 1804 | Evolution of transcript modification by ⁵ methyladenosine in primates. 2017 , 27, 385-392 | | 34 |
| 1803 | Chemical Modifications to RNA: A New Layer of Gene Expression Regulation. 2017 , 12, 316-325 | | 95 |
| 1802 | The RNA Epistructurome: Uncovering RNA Function by Studying Structure and Post-Transcriptional Modifications. 2017 , 35, 318-333 | | 30 |
| 1801 | Catalyst-free N-methylation of amines using CO. 2017 , 53, 1148-1151 | | 67 |
| 1800 | Reversible methylation of m ^A in the 5' cap controls mRNA stability. <i>Nature</i> , 2017 , 541, 371-375 | 50.4 | 540 |
| 1799 | The emerging biology of RNA post-transcriptional modifications. 2017 , 14, 156-163 | | 119 |
| 1798 | Capture and sequencing of NAD-capped RNA sequences with NAD captureSeq. 2017 , 12, 122-149 | | 40 |
| 1797 | The m ¹ A landscape on cytosolic and mitochondrial mRNA at single-base resolution. <i>Nature</i> , 2017 , 551, 251-255 | 50.4 | 270 |

| | | |
|------|--|-----|
| 1796 | mA Facilitates eIF4F-Independent mRNA Translation. 2017 , 68, 504-514.e7 | 125 |
| 1795 | N6-methyladenosine demethylase FTO targets pre-mRNAs and regulates alternative splicing and 3'-end processing. 2017 , 45, 11356-11370 | 211 |
| 1794 | Electrochemical immunosensor based on hairpin DNA probe for specific detection of N6-methyladenosine RNA. 2017 , 804, 192-198 | 9 |
| 1793 | Sequence determinants of the folding properties of box C/D kink-turns in RNA. 2017 , 23, 1927-1935 | 7 |
| 1792 | Enhancing GTEx by bridging the gaps between genotype, gene expression, and disease. 2017 , 49, 1664-1670 | 127 |
| 1791 | Mechanistic insights in X-chromosome inactivation. 2017 , 372, | 40 |
| 1790 | Temporal Control of Mammalian Cortical Neurogenesis by mA Methylation. 2017 , 171, 877-889.e17 | 358 |
| 1789 | Translation of noncoding RNAs: Focus on lncRNAs, pri-miRNAs, and circRNAs. 2017 , 361, 1-8 | 64 |
| 1788 | Regulation of mA Transcripts by the 3'-5' RNA Helicase YTHDC2 Is Essential for a Successful Meiotic Program in the Mammalian Germline. 2017 , 68, 374-387.e12 | 206 |
| 1787 | Human METTL16 is a -methyladenosine (mA) methyltransferase that targets pre-mRNAs and various non-coding RNAs. 2017 , 18, 2004-2014 | 276 |
| 1786 | Mutations in RNA methylating enzymes in disease. 2017 , 41, 20-27 | 13 |
| 1785 | Gene regulation in the immune system by long noncoding RNAs. 2017 , 18, 962-972 | 381 |
| 1784 | Chromatin-associated noncoding RNAs in development and inheritance. 2017 , 8, e1435 | 8 |
| 1783 | Position-dependent effects of regioisomeric methylated adenine and guanine ribonucleosides on translation. 2017 , 45, 9059-9067 | 26 |
| 1782 | The RNA helicase DDX46 inhibits innate immunity by entrapping mA-demethylated antiviral transcripts in the nucleus. 2017 , 18, 1094-1103 | 178 |
| 1781 | Genome-Wide Maps of m6A circRNAs Identify Widespread and Cell-Type-Specific Methylation Patterns that Are Distinct from mRNAs. 2017 , 20, 2262-2276 | 215 |
| 1780 | The RNA modification landscape in human disease. 2017 , 23, 1754-1769 | 209 |
| 1779 | Roles of RNA methylation by means of N-methyladenosine (mA) in human cancers. 2017 , 408, 112-120 | 142 |

| | | |
|------|---|----------|
| 1778 | The RNA mA Reader YTHDF2 Is Essential for the Post-transcriptional Regulation of the Maternal Transcriptome and Oocyte Competence. 2017 , 67, 1059-1067.e4 | 176 |
| 1777 | Mettl3-/Mettl14-mediated mRNA N-methyladenosine modulates murine spermatogenesis. 2017 , 27, 1216-1230 | 171 |
| 1776 | The N-methyladenosine (mA)-forming enzyme METTL3 controls myeloid differentiation of normal hematopoietic and leukemia cells. 2017 , 23, 1369-1376 | 584 |
| 1775 | The requirement of Mettl3-promoted mRNA maintenance in proliferative myoblasts for skeletal muscle differentiation. 2017 , 7, | 46 |
| 1774 | Region-specific RNA mA methylation represents a new layer of control in the gene regulatory network in the mouse brain. 2017 , 7, | 72 |
| 1773 | mA modulates haematopoietic stem and progenitor cell specification. <i>Nature</i> , 2017 , 549, 273-276 | 50.4 280 |
| 1772 | Shaping and Reshaping Transcriptome Plasticity during Evolution. 2017 , 42, 682-684 | 2 |
| 1771 | m6aViewer: software for the detection, analysis, and visualization of -methyladenosine peaks from mA-seq/ME-RIP sequencing data. 2017 , 23, 1493-1501 | 20 |
| 1770 | Novel ribonuclease activity of cusativin from <i>Cucumis sativus</i> for mapping nucleoside modifications in RNA. 2017 , 409, 5645-5654 | 23 |
| 1769 | Rethinking mA Readers, Writers, and Erasers. 2017 , 33, 319-342 | 494 |
| 1768 | Structural insights into the specific recognition of DSR by the YTH domain containing protein Mmi1. 2017 , 491, 310-316 | 13 |
| 1767 | Mettl3-mediated mA regulates spermatogonial differentiation and meiosis initiation. 2017 , 27, 1100-1114 | 186 |
| 1766 | Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. 2017 , 27, 1115-1127 | 404 |
| 1765 | Current Concepts of Epigenetics and Its Role in Periodontitis. 2017 , 4, 286-293 | 38 |
| 1764 | Promoter-bound METTL3 maintains myeloid leukaemia by mA-dependent translation control. <i>Nature</i> , 2017 , 552, 126-131 | 50.4 500 |
| 1763 | ALKBH10B Is an RNA -Methyladenosine Demethylase Affecting Arabidopsis Floral Transition. 2017 , 29, 2995-3011 | 124 |
| 1762 | Modern Approaches for Identification of Modified Nucleotides in RNA. 2017 , 82, 1217-1233 | 3 |
| 1761 | Epitranscriptomics: regulation of mRNA metabolism through modifications. 2017 , 41, 93-98 | 73 |

| | | |
|------|---|-----|
| 1760 | RNA editing by ADAR1 leads to context-dependent transcriptome-wide changes in RNA secondary structure. 2017 , 8, 1440 | 36 |
| 1759 | Detection of N-methyladenosine based on the methyl-sensitivity of MazF RNA endonuclease. 2017 , 53, 12930-12933 | 66 |
| 1758 | RNA Chemical Proteomics Reveals the N-Methyladenosine (mA)-Regulated Protein-RNA Interactome. 2017 , 139, 17249-17252 | 134 |
| 1757 | Dynamic Proteomics of Herpes Simplex Virus Infection. 2017 , 8, | 19 |
| 1756 | The mA pathway facilitates sex determination in Drosophila. 2017 , 8, 15737 | 103 |
| 1755 | mA RNA Modification Determines Cell Fate by Regulating mRNA Degradation. 2017 , 19, 225-231 | 27 |
| 1754 | Impact of RNA Modifications and RNA-Modifying Enzymes on Eukaryotic Ribonucleases. 2017 , 41, 299-329 | 7 |
| 1753 | Ruthenium-promoted reductive transformation of CO ₂ . 2017 , 60, 841-852 | 16 |
| 1752 | The mA methyltransferase Ime4 epitranscriptionally regulates triacylglycerol metabolism and vacuolar morphology in haploid yeast cells. 2017 , 292, 13727-13744 | 13 |
| 1751 | The N-Methyladenosine RNA modification in pluripotency and reprogramming. 2017 , 46, 77-82 | 16 |
| 1750 | Electrochemical immunosensor for N ⁶ -methyladenosine detection in human cell lines based on biotin-streptavidin system and silver-SiO signal amplification. 2017 , 90, 494-500 | 43 |
| 1749 | Next-generation sequencing technologies for detection of modified nucleotides in RNAs. 2017 , 14, 1124-1137 | 63 |
| 1748 | Post-transcriptional gene regulation by mRNA modifications. 2017 , 18, 31-42 | 909 |
| 1747 | METTL14 suppresses the metastatic potential of hepatocellular carcinoma by modulating N ⁶ -methyladenosine-dependent primary MicroRNA processing. 2017 , 65, 529-543 | 458 |
| 1746 | RNA modification in Cajal bodies. 2017 , 14, 693-700 | 51 |
| 1745 | DMS-MaPseq for genome-wide or targeted RNA structure probing in vivo. 2017 , 14, 75-82 | 192 |
| 1744 | LncVar: a database of genetic variation associated with long non-coding genes. 2017 , 33, 112-118 | 29 |
| 1743 | New insights into decapping enzymes and selective mRNA decay. 2017 , 8, e1379 | 87 |

| | | |
|------|---|---------|
| 1742 | Translating the epitranscriptome. 2017 , 8, e1375 | 29 |
| 1741 | Emerging Themes in Regulation of Global mRNA Turnover in cis. 2017 , 42, 16-27 | 28 |
| 1740 | The epitranscriptome m6A writer METTL3 promotes chemo- and radioresistance in pancreatic cancer cells. 2018 , 52, 621-629 | 154 |
| 1739 | DNA methylation alterations in Alzheimer's disease. 2017 , 3, dx008 | 26 |
| 1738 | S-Adenosylmethionine Synthesis Is Regulated by Selective N-Adenosine Methylation and mRNA Degradation Involving METTL16 and YTHDC1. 2017 , 21, 3354-3363 | 151 |
| 1737 | High-throughput single-base resolution mapping of RNA 2FO-methylated residues. 2017 , 45, 1433-1441 | 71 |
| 1736 | Erratum: Publisher's Note. 2017 , 14, 1269 | 1 |
| 1735 | Epitranscriptomics for Biomedical Discovery. 2017 , | |
| 1734 | Complex Relationship between Obesity and the Fat Mass and Obesity Locus. 2017 , 13, 615-629 | 35 |
| 1733 | DMAP-assisted sulfonylation as an efficient step for the methylation of primary amine motifs on solid support. 2017 , 13, 806-816 | 7 |
| 1732 | Recent Advances in Identification of RNA Modifications. 2016 , 3, | 12 |
| 1731 | The Dark Side of the Epitranscriptome: Chemical Modifications in Long Non-Coding RNAs. 2017 , 18, | 64 |
| 1730 | An epigenetics gold rush: new controls for gene expression. <i>Nature</i> , 2017 , 542, 406-408 | 50.4 16 |
| 1729 | International Standards for Genomes, Transcriptomes, and Metagenomes. 2017 , 28, 8-18 | 21 |
| 1728 | YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. 2017 , 6, | 452 |
| 1727 | Role of DNA and RNA N6-Adenine Methylation in Regulating Stem Cell Fate. 2018 , 13, 31-38 | 27 |
| 1726 | Function by Structure: Spotlights on Xist Long Non-coding RNA. 2017 , 4, 90 | 52 |
| 1725 | Epitranscriptome and FMRP Regulated mRNA Translation. 2017 , 1, 11 | 1 |

| | | |
|------|--|-----|
| 1724 | The Epigenetics of Noncoding RNA. 2017 , 47-59 | 2 |
| 1723 | Causes and Consequences of Flavivirus RNA Methylation. 2017 , 8, 2374 | 17 |
| 1722 | Mechanisms of Long Non-Coding RNAs in the Assembly and Plasticity of Neural Circuitry. 2017 , 11, 76 | 29 |
| 1721 | The conserved RNA helicase YTHDC2 regulates the transition from proliferation to differentiation in the germline. 2017 , 6, | 113 |
| 1720 | The rise of epitranscriptomic era: implications for cardiovascular disease. 2017 , 113, e2-e3 | 14 |
| 1719 | RNA Epigenetics (Epitranscriptomics). 2017 , 19-35 | |
| 1718 | High-throughput m6A-seq reveals RNA m6A methylation patterns in the chloroplast and mitochondria transcriptomes of Arabidopsis thaliana. 2017 , 12, e0185612 | 23 |
| 1717 | Epitranscriptomic influences on development and disease. 2017 , 18, 197 | 64 |
| 1716 | Rewriting the transcriptome: adenosine-to-inosine RNA editing by ADARs. 2017 , 18, 205 | 97 |
| 1715 | QNB: differential RNA methylation analysis for count-based small-sample sequencing data with a quad-negative binomial model. 2017 , 18, 387 | 25 |
| 1714 | What Does the Future Hold for the Study of Nucleic Acid Modifications in the Brain?. 2017 , 149-159 | |
| 1713 | Recent Advancement in Methodology for Understanding Epigenetic Modifications. 2017 , 03, | 3 |
| 1712 | The M6A methyltransferase METTL3: acting as a tumor suppressor in renal cell carcinoma. 2017 , 8, 96103-96116 | 17 |
| 1711 | MeTDiff: A Novel Differential RNA Methylation Analysis for MeRIP-Seq Data. 2018 , 15, 526-534 | 45 |
| 1710 | Overexpression of YTHDF1 is associated with poor prognosis in patients with hepatocellular carcinoma. 2018 , 21, 859-868 | 146 |
| 1709 | Enzymatic or In Vivo Installation of Propargyl Groups in Combination with Click Chemistry for the Enrichment and Detection of Methyltransferase Target Sites in RNA. 2018 , 57, 6342-6346 | 61 |
| 1708 | Deciphering the Epitranscriptome in Cancer. 2018 , 4, 207-221 | 28 |
| 1707 | Identification of a selective DNA ligase for accurate recognition and ultrasensitive quantification of -methyladenosine in RNA at one-nucleotide resolution. 2018 , 9, 3354-3359 | 35 |

| | | |
|------|--|----------|
| 1706 | RNA tales - how embryos read and discard messages from mom. 2018 , 131, | 16 |
| 1705 | Functional 5' UTR mRNA structures in eukaryotic translation regulation and how to find them. 2018 , 19, 158-174 | 305 |
| 1704 | VIRMA mediates preferential m ⁶ A mRNA methylation in 3'UTR and near stop codon and associates with alternative polyadenylation. 2018 , 4, 10 | 332 |
| 1703 | Recognition of RNA N-methyladenosine by IGF2BP proteins enhances mRNA stability and translation. 2018 , 20, 285-295 | 795 |
| 1702 | Enzymatischer oder In-vivo-Einbau von Propargylgruppen in Kombination mit Klick-Chemie zur Anreicherung und Detektion von Methyltransferase-Zielsequenzen in RNA. 2018 , 130, 6451-6455 | 16 |
| 1701 | RNA-dependent chromatin targeting of TET2 for endogenous retrovirus control in pluripotent stem cells. 2018 , 50, 443-451 | 74 |
| 1700 | mRNA m ⁶ A plays opposite role in regulating UCP2 and PNPLA2 protein expression in adipocytes. 2018 , 42, 1912-1924 | 26 |
| 1699 | Biology of ZIKV. 2018 , 83-130 | |
| 1698 | The SMAD2/3 interactome reveals that TGFβ controls m ⁶ A mRNA methylation in pluripotency. <i>Nature</i> , 2018 , 555, 256-259 | 50.4 173 |
| 1697 | SUMOylation of the m ⁶ A-RNA methyltransferase METTL3 modulates its function. 2018 , 46, 5195-5208 | 120 |
| 1696 | Curcumin Attenuates Lipopolysaccharide-Induced Hepatic Lipid Metabolism Disorder by Modification of m ⁶ A RNA Methylation in Piglets. 2018 , 53, 53-63 | 56 |
| 1695 | Precise Antibody-Independent m ⁶ A Identification via 4SedTTP-Involved and FTO-Assisted Strategy at Single-Nucleotide Resolution. 2018 , 140, 5886-5889 | 46 |
| 1694 | N ⁶ -Methyladenosine modification of lincRNA 1281 is critically required for mESC differentiation potential. 2018 , 46, 3906-3920 | 129 |
| 1693 | METTL3 regulates alternative splicing of MyD88 upon the lipopolysaccharide-induced inflammatory response in human dental pulp cells. 2018 , 22, 2558-2568 | 98 |
| 1692 | m ⁶ A deposition: a boost from TGFβ 2018 , 28, 505-506 | 0 |
| 1691 | RNA N-methyladenosine modification in cancers: current status and perspectives. 2018 , 28, 507-517 | 310 |
| 1690 | Epigenetics and epitranscriptomics in temporal patterning of cortical neural progenitor competence. 2018 , 217, 1901-1914 | 49 |
| 1689 | Structural insights into the RNA methyltransferase domain of METTL16. 2018 , 8, 5311 | 57 |

| | | |
|------|---|-----|
| 1688 | Towards the structural characterization of the human methyltransferome. 2018 , 53, 12-21 | 4 |
| 1687 | The kink-turn in the structural biology of RNA. 2018 , 51, e5 | 14 |
| 1686 | Profiling of m6A RNA modifications identified an age-associated regulation of AGO2 mRNA stability. 2018 , 17, e12753 | 56 |
| 1685 | Biochemistry and Molecular Biology of Flaviviruses. 2018 , 118, 4448-4482 | 126 |
| 1684 | An mA-YTH Module Controls Developmental Timing and Morphogenesis in Arabidopsis. 2018 , 30, 952-967 | 96 |
| 1683 | Emerging role of dynamic RNA modifications during animal development. 2018 , 154, 24-32 | 18 |
| 1682 | Distinguishing RNA modifications from noise in epitranscriptome maps. 2018 , 14, 215-225 | 59 |
| 1681 | Detecting RNA base methylations in single cells by in situ hybridization. 2018 , 9, 655 | 17 |
| 1680 | N6-methyladenosine links RNA metabolism to cancer progression. 2018 , 9, 124 | 239 |
| 1679 | Positive-sense RNA viruses reveal the complexity and dynamics of the cellular and viral epitranscriptomes during infection. 2018 , 46, 5776-5791 | 61 |
| 1678 | FTO reduces mitochondria and promotes hepatic fat accumulation through RNA demethylation. 2018 , 119, 5676-5685 | 51 |
| 1677 | Increased N6-methyladenosine causes infertility is associated with FTO expression. 2018 , 233, 7055-7066 | 58 |
| 1676 | DMF-promoted reductive functionalization of CO2 with secondary amines and phenylsilane to methylamines. 2018 , 90, 1099-1107 | 7 |
| 1675 | Premature polyadenylation of MAG13 is associated with diminished N-methyladenosine in its large internal exon. 2018 , 8, 1415 | 16 |
| 1674 | Epitranscriptomic mA Regulation of Axon Regeneration in the Adult Mammalian Nervous System. 2018 , 97, 313-325.e6 | 171 |
| 1673 | Bacterial RNA Biology on a Genome Scale. 2018 , 70, 785-799 | 105 |
| 1672 | Interactions, localization, and phosphorylation of the mA generating METTL3-METTL14-WTAP complex. 2018 , 24, 499-512 | 165 |
| 1671 | Mutation Disrupts Gamete Maturation and Reduces Fertility in Zebrafish. 2018 , 208, 729-743 | 39 |

| | | |
|------|---|-----|
| 1670 | We skip to work: alternative splicing in normal and malignant myelopoiesis. 2018 , 32, 1081-1093 | 23 |
| 1669 | N-Methyladenosine Guides mRNA Alternative Translation during Integrated Stress Response. 2018 , 69, 636-647.e7 | 126 |
| 1668 | Modificaomics: deciphering the functions of biomolecule modifications. 2018 , 61, 381-392 | 27 |
| 1667 | ALKBH5-dependent m6A demethylation controls splicing and stability of long 3'-UTR mRNAs in male germ cells. 2018 , 115, E325-E333 | 226 |
| 1666 | Epigenetics and Genetics of Development. 2018 , 153-210 | 1 |
| 1665 | METTL14 Inhibits Hematopoietic Stem/Progenitor Differentiation and Promotes Leukemogenesis via mRNA mA Modification. 2018 , 22, 191-205.e9 | 476 |
| 1664 | RFathM6A: a new tool for predicting mA sites in Arabidopsis thaliana. 2018 , 96, 327-337 | 36 |
| 1663 | N-methyladenosine RNA modification regulates embryonic neural stem cell self-renewal through histone modifications. 2018 , 21, 195-206 | 185 |
| 1662 | Dynamic m6A modification regulates local translation of mRNA in axons. 2018 , 46, 1412-1423 | 149 |
| 1661 | N-Methyladenosines Modulate A-to-I RNA Editing. 2018 , 69, 126-135.e6 | 58 |
| 1660 | Most m6A RNA Modifications in Protein-Coding Regions Are Evolutionarily Unconserved and Likely Nonfunctional. 2018 , 35, 666-675 | 29 |
| 1659 | MeT-DB V2.0: elucidating context-specific functions of N6-methyl-adenosine methyltranscriptome. 2018 , 46, D281-D287 | 73 |
| 1658 | Epigenetic reprogramming during spermatogenesis and male factor infertility. 2018 , 156, R9-R21 | 37 |
| 1657 | Mechanism of N-methyladenosine modification and its emerging role in cancer. 2018 , 189, 173-183 | 20 |
| 1656 | Multiple functions of mA RNA methylation in cancer. 2018 , 11, 48 | 158 |
| 1655 | Structural Insights into N-methyladenosine (mA) Modification in the Transcriptome. 2018 , 16, 85-98 | 39 |
| 1654 | YTH Domain: A Family of N-methyladenosine (mA) Readers. 2018 , 16, 99-107 | 157 |
| 1653 | RNA epitranscriptomics: Regulation of infection of RNA and DNA viruses by N -methyladenosine (mA). 2018 , 28, e1983 | 42 |

| | | |
|------|--|-----|
| 1652 | A low-complexity region in the YTH domain protein Mmi1 enhances RNA binding. 2018 , 293, 9210-9222 | 7 |
| 1651 | The mA Reader ECT2 Controls Trichome Morphology by Affecting mRNA Stability in Arabidopsis. 2018 , 30, 968-985 | 121 |
| 1650 | Zc3h13 Regulates Nuclear RNA mA Methylation and Mouse Embryonic Stem Cell Self-Renewal. 2018 , 69, 1028-1038.e6 | 362 |
| 1649 | Xio is a component of the sex determination pathway and RNA -methyladenosine methyltransferase complex. 2018 , 115, 3674-3679 | 55 |
| 1648 | Zc3h13/Flacc is required for adenosine methylation by bridging the mRNA-binding factor Rbm15/Spenito to the mA machinery component Wtap/Fl(2)d. 2018 , 32, 415-429 | 248 |
| 1647 | N-adenine DNA methylation demystified in eukaryotic genome: From biology to pathology. 2018 , 144, 56-62 | 16 |
| 1646 | m6AVar: a database of functional variants involved in m6A modification. 2018 , 46, D139-D145 | 104 |
| 1645 | RMBase v2.0: deciphering the map of RNA modifications from epitranscriptome sequencing data. 2018 , 46, D327-D334 | 184 |
| 1644 | Reading mA in the Transcriptome: mA-Binding Proteins. 2018 , 28, 113-127 | 272 |
| 1643 | The mA methyltransferase Ime4 and mitochondrial functions in yeast. 2018 , 64, 353-357 | 9 |
| 1642 | Role of N-methyladenosine modification in cancer. 2018 , 48, 1-7 | 127 |
| 1641 | The emerging role of mRNA methylation in normal and pathological behavior. 2018 , 17, e12428 | 48 |
| 1640 | The role of yeast mA methyltransferase in peroxisomal fatty acid oxidation. 2018 , 64, 417-422 | 7 |
| 1639 | Functional RNA during Zika virus infection. 2018 , 254, 41-53 | 53 |
| 1638 | Experience-dependent neural plasticity, learning, and memory in the era of epitranscriptomics. 2018 , 17, e12426 | 17 |
| 1637 | RNA N6-methyladenosine methyltransferase-like 3 promotes liver cancer progression through YTHDF2-dependent posttranscriptional silencing of SOCS2. 2018 , 67, 2254-2270 | 599 |
| 1636 | HBXIP-elevated methyltransferase METTL3 promotes the progression of breast cancer via inhibiting tumor suppressor let-7g. 2018 , 415, 11-19 | 259 |
| 1635 | Pre-mRNA processing includes methylation of adenosine residues that are retained in mRNA exons and the fallacy of "RNA epigenetics". 2018 , 24, 262-267 | 54 |

| | | |
|------|--|----|
| 1634 | Role of RNA modifications in brain and behavior. 2018 , 17, e12444 | 30 |
| 1633 | Our views of dynamic -methyladenosine RNA methylation. 2018 , 24, 268-272 | 35 |
| 1632 | Viral and cellular N-methyladenosine and N,2'-O-dimethyladenosine epitranscriptomes in the KSHV life cycle. 2018 , 3, 108-120 | 83 |
| 1631 | Engineering of a DNA Polymerase for Direct m A Sequencing. 2018 , 57, 417-421 | 50 |
| 1630 | Quantification of 2'-O-Me Residues in RNA Using Next-Generation Sequencing (Illumina RiboMethSeq Protocol). 2018 , 1649, 29-48 | 9 |
| 1629 | Decoding hidden messages in neurons: insights from epitranscriptome-controlled and specialized ribosome-controlled translation. 2018 , 48, 64-70 | 12 |
| 1628 | Entwicklung einer DNA-Polymerase für die direkte m6A-Sequenzierung. 2018 , 130, 424-428 | 14 |
| 1627 | Identifying the mA Methylome by Affinity Purification and Sequencing. 2018 , 1649, 49-57 | 8 |
| 1626 | Potential link between mA modification and systemic lupus erythematosus. 2018 , 93, 55-63 | 36 |
| 1625 | Aberrant expression of enzymes regulating mA mRNA methylation: implication in cancer. 2018 , 15, 323-334 | 59 |
| 1624 | . 2018 , | 1 |
| 1623 | The role of the fat mass and obesity-associated protein in the proliferation of pancreatic cancer cells. 2019 , 17, 2473-2478 | 35 |
| 1622 | A link between a synonymous SNP and the clinical response to tyrosine kinase inhibitors. 2018 , 2, | 1 |
| 1621 | N-methyladenosine contributes to cellular phenotype in a genetically-defined model of breast cancer progression. 2018 , 9, 31231-31243 | 23 |
| 1620 | SnapShot: Messenger RNA Modifications. 2018 , 174, 498-498.e1 | 31 |
| 1619 | Cancer RNome: Nature & Evolution. 2018 , | |
| 1618 | N6-Methyladenosine in RNA and DNA: An Epitranscriptomic and Epigenetic Player Implicated in Determination of Stem Cell Fate. 2018 , 2018, 3256524 | 34 |
| 1617 | Hydrogen Peroxide-Based Fluorometric Assay for Real-Time Monitoring of SAM-Dependent Methyltransferases. 2018 , 6, 146 | 3 |

| | | |
|------|--|-----|
| 1616 | M6AMRFS: Robust Prediction of N6-Methyladenosine Sites With Sequence-Based Features in Multiple Species. 2018 , 9, 495 | 53 |
| 1615 | omniCLIP: probabilistic identification of protein-RNA interactions from CLIP-seq data. 2018 , 19, 183 | 7 |
| 1614 | Dynamic transcriptome profiling dataset of vaccinia virus obtained from long-read sequencing techniques. 2018 , 7, | 19 |
| 1613 | BERMP: a cross-species classifier for predicting mA sites by integrating a deep learning algorithm and a random forest approach. 2018 , 14, 1669-1677 | 50 |
| 1612 | RNA m A modification enzymes shape innate responses to DNA by regulating interferon β . 2018 , 32, 1472-1484 | 104 |
| 1611 | Circadian Clock Regulation of Hepatic Lipid Metabolism by Modulation of mA mRNA Methylation. 2018 , 25, 1816-1828.e4 | 115 |
| 1610 | Mettl3-mediated mA RNA methylation regulates the fate of bone marrow mesenchymal stem cells and osteoporosis. 2018 , 9, 4772 | 153 |
| 1609 | RNome and Chromatin Dynamics. 2018 , 79-112 | |
| 1608 | N-methyladenosine (mA): Revisiting the Old with Focus on New, an Arabidopsis thaliana Centered Review. 2018 , 9, | 13 |
| 1607 | DeepM6ASeq: prediction and characterization of m6A-containing sequences using deep learning. 2018 , 19, 524 | 57 |
| 1606 | Identifying sequence features that drive ribosomal association for lncRNA. 2018 , 19, 906 | 8 |
| 1605 | RNA Modification Level Estimation with pulseR. 2018 , 9, | 1 |
| 1604 | N-acetylation of Cytidine in mRNA by NAT10 Regulates Stability and Translation. 2018 , 175, 1725-1727 | 12 |
| 1603 | mA-mediated ZNF750 repression facilitates nasopharyngeal carcinoma progression. 2018 , 9, 1169 | 58 |
| 1602 | Acetylation takes aim at mRNA. 2018 , 25, 1067-1068 | 2 |
| 1601 | Pre-mRNA modifications and their role in nuclear processing. 2018 , 6, 210-227 | 14 |
| 1600 | Alternative mechanisms of translation initiation: An emerging dynamic regulator of the proteome in health and disease. 2018 , 212, 138-144 | 18 |
| 1599 | A dynamic N-methyladenosine methylome regulates intrinsic and acquired resistance to tyrosine kinase inhibitors. 2018 , 28, 1062-1076 | 83 |

| | | |
|------|--|-----|
| 1598 | RNA modifications modulate gene expression during development. 2018 , 361, 1346-1349 | 376 |
| 1597 | An Overview of Circular RNAs. 2018 , 1087, 3-14 | 5 |
| 1596 | N-Methyladenosine-Sensitive RNA-Cleaving Deoxyribozymes. 2018 , 57, 15117-15121 | 25 |
| 1595 | N6-Methyladenosine-Sensitive RNA-Cleaving Deoxyribozymes. 2018 , 130, 15337-15341 | 8 |
| 1594 | Emerging function of N6-methyladenosine in cancer. 2018 , 16, 5519-5524 | 25 |
| 1593 | Cross-talk among writers, readers, and erasers of mA regulates cancer growth and progression. 2018 , 4, eaar8263 | 160 |
| 1592 | The Fat Mass- and Obesity-Associated (FTO) Gene to Obesity: Lessons from Mouse Models. 2018 , 26, 1674-1686 | 13 |
| 1591 | Sequence Determinants for Nuclear Retention and Cytoplasmic Export of mRNAs and lncRNAs. 2018 , 9, 440 | 39 |
| 1590 | A Bayesian hierarchical model for analyzing methylated RNA immunoprecipitation sequencing data. 2018 , 6, 275-286 | 4 |
| 1589 | Heart Genomics. 2018 , | |
| 1588 | Gene Therapy and Genomic Application in Heart Disease. 2018 , 337-374 | |
| 1587 | N-Methyladenosine Inhibits Local Ribonucleolytic Cleavage to Stabilize mRNAs in Arabidopsis. 2018 , 25, 1146-1157.e3 | 79 |
| 1586 | mA facilitates hippocampus-dependent learning and memory through YTHDF1. <i>Nature</i> , 2018 , 563, 249-253.4 | 208 |
| 1585 | An Elongation- and Ligation-Based qPCR Amplification Method for the Radiolabeling-Free Detection of Locus-Specific N6-Methyladenosine Modification. 2018 , 130, 16227-16232 | 4 |
| 1584 | An Elongation- and Ligation-Based qPCR Amplification Method for the Radiolabeling-Free Detection of Locus-Specific N-Methyladenosine Modification. 2018 , 57, 15995-16000 | 79 |
| 1583 | Refined RIP-seq protocol for epitranscriptome analysis with low input materials. 2018 , 16, e2006092 | 56 |
| 1582 | The mA-methylase complex recruits TREX and regulates mRNA export. 2018 , 8, 13827 | 50 |
| 1581 | Targeted mA Reader Proteins To Study Epitranscriptomic Regulation of Single RNAs. 2018 , 140, 11974-11981 | 60 |

| | | |
|------|---|-----|
| 1580 | Structural Basis for Regulation of METTL16, an S-Adenosylmethionine Homeostasis Factor. 2018 , 71, 1001-1011.e4 | 81 |
| 1579 | Methylation of Structured RNA by the mA Writer METTL16 Is Essential for Mouse Embryonic Development. 2018 , 71, 986-1000.e11 | 137 |
| 1578 | Emerging approaches for detection of methylation sites in RNA. 2018 , 8, | 17 |
| 1577 | The RNA Epitranscriptome of DNA Viruses. 2018 , 92, | 20 |
| 1576 | Epigenetic Regulation of Skin Development and Regeneration. 2018 , | |
| 1575 | Chemical Modifications in the Life of an mRNA Transcript. 2018 , 52, 349-372 | 90 |
| 1574 | Dawn of Epitranscriptomic Medicine. 2018 , 11, e001927 | 16 |
| 1573 | iRNA(m6A)-PseDNC: Identifying N-methyladenosine sites using pseudo dinucleotide composition. 2018 , 561-562, 59-65 | 117 |
| 1572 | RNA Methylation in the Control of Stem Cell Activity and Epidermal Differentiation. 2018 , 215-229 | 0 |
| 1571 | mA within cytoplasmic mRNAs at single nucleotide resolution: a reconciled transcriptome-wide map. 2018 , 24, 1427-1436 | 36 |
| 1570 | Aberrant Regulation of mRNA mA Modification in Cancer Development. 2018 , 19, | 27 |
| 1569 | Epitranscriptomics: RNA Modifications in Bacteria and Archaea. 2018 , 399-420 | 1 |
| 1568 | Epigallocatechin gallate targets FTO and inhibits adipogenesis in an mRNA mA-YTHDF2-dependent manner. 2018 , 42, 1378-1388 | 56 |
| 1567 | RNA-modifying proteins as anticancer drug targets. 2018 , 17, 435-453 | 62 |
| 1566 | miCLIP-MaPseq, a Substrate Identification Approach for Radical SAM RNA Methylating Enzymes. 2018 , 140, 7135-7143 | 6 |
| 1565 | Adenosine methylation as a molecular imprint defining the fate of RNA. 2018 , 592, 2845-2859 | 26 |
| 1564 | Analogous modified DNA probe and immune competition method-based electrochemical biosensor for RNA modification. 2018 , 114, 72-77 | 19 |
| 1563 | Dynamic transcriptomic mA decoration: writers, erasers, readers and functions in RNA metabolism. 2018 , 28, 616-624 | 483 |

| | | |
|------|---|-----|
| 1562 | Two transcripts regulated by m6A methylation code for two antagonistic kinases in the control of the circadian clock. 2018 , 115, 5980-5985 | 55 |
| 1561 | Glycogen synthase kinase-3 (GSK-3) activity regulates mRNA methylation in mouse embryonic stem cells. 2018 , 293, 10731-10743 | 14 |
| 1560 | N6-Methylation Assessment in Escherichia coli 23S rRNA Utilizing a Bulge Loop in an RNA-DNA Hybrid. 2018 , 90, 7578-7582 | 1 |
| 1559 | mA demethylase FTO facilitates tumor progression in lung squamous cell carcinoma by regulating MZF1 expression. 2018 , 502, 456-464 | 125 |
| 1558 | -Methyladenosine modification: a novel pharmacological target for anti-cancer drug development. 2018 , 8, 833-843 | 41 |
| 1557 | ALKBH5-induced demethylation of mono- and dimethylated adenosine. 2018 , 54, 8591-8593 | 17 |
| 1556 | The mA reader protein YTHDC2 interacts with the small ribosomal subunit and the 5'-3' exoribonuclease XRN1. 2018 , 24, 1339-1350 | 105 |
| 1555 | mutant mice uncover an essential meiotic function for the ancient RNA helicase YTHDC2. 2018 , 7, | 93 |
| 1554 | FTO mediates cell-autonomous effects on adipogenesis and adipocyte lipid content by regulating gene expression via 6mA DNA modifications. 2018 , 59, 1446-1460 | 17 |
| 1553 | Synaptic N-methyladenosine (mA) epitranscriptome reveals functional partitioning of localized transcripts. 2018 , 21, 1004-1014 | 83 |
| 1552 | Epigenetic Mechanisms of Learning and Memory. 2018 , 345-382 | 1 |
| 1551 | Epitranscriptomics: RNA Modifications in Bacteria and Archaea. 2018 , 6, | 23 |
| 1550 | Obesity, Fatty Liver and Liver Cancer. 2018 , | 3 |
| 1549 | Dysregulated Epigenetic Modifications in the Pathogenesis of NAFLD-HCC. 2018 , 1061, 79-93 | 8 |
| 1548 | Suppression of mA reader Ythdf2 promotes hematopoietic stem cell expansion. 2018 , 28, 904-917 | 124 |
| 1547 | Identification of Natural Compound Radicol as a Potent FTO Inhibitor. 2018 , 15, 4092-4098 | 43 |
| 1546 | Link Between m6A Modification and Cancers. 2018 , 6, 89 | 104 |
| 1545 | Quantification of methylation efficiency at a specific N-methyladenosine position in rRNA by using BNA probes. 2018 , 54, 9627-9630 | 2 |

| | | |
|------|--|-----|
| 1544 | Imbalance learning for the prediction of N-Methylation sites in mRNAs. 2018 , 19, 574 | 28 |
| 1543 | M6APred-EL: A Sequence-Based Predictor for Identifying N6-methyladenosine Sites Using Ensemble Learning. 2018 , 12, 635-644 | 116 |
| 1542 | A fluorescent methylation-switchable probe for highly sensitive analysis of FTO -methyladenosine demethylase activity in cells. 2018 , 9, 7174-7185 | 11 |
| 1541 | Novel insights on mA RNA methylation in tumorigenesis: a double-edged sword. 2018 , 17, 101 | 101 |
| 1540 | RNA Methylation in ncRNA: Classes, Detection, and Molecular Associations. 2018 , 9, 243 | 30 |
| 1539 | mA RNA modification controls autophagy through upregulating ULK1 protein abundance. 2018 , 28, 955-957 | 48 |
| 1538 | The dual role of N6-methyladenosine modification of RNAs is involved in human cancers. 2018 , 22, 4630-4639 | 48 |
| 1537 | The Role of mA/m-RNA Methylation in Stress Response Regulation. 2018 , 99, 389-403.e9 | 170 |
| 1536 | Emerging Roles of N-Methyladenosine on HIV-1 RNA Metabolism and Viral Replication. 2018 , 9, 576 | 13 |
| 1535 | Epitranscriptomics: A New Regulatory Mechanism of Brain Development and Function. 2018 , 12, 85 | 18 |
| 1534 | trumpet: transcriptome-guided quality assessment of mA-seq data. 2018 , 19, 260 | 7 |
| 1533 | Above the Epitranscriptome: RNA Modifications and Stem Cell Identity. 2018 , 9, | 27 |
| 1532 | -Methyladenosine-binding proteins suppress HIV-1 infectivity and viral production. 2018 , 293, 12992-13005 | 49 |
| 1531 | Impact of DNA and RNA Methylation on Radiobiology and Cancer Progression. 2018 , 19, | 19 |
| 1530 | N -methyl-adenosine level in Nicotiana tabacum is associated with tobacco mosaic virus. 2018 , 15, 87 | 26 |
| 1529 | A potentially abundant junctional RNA motif stabilized by mA and Mg. 2018 , 9, 2761 | 42 |
| 1528 | RNA mA methylation participates in regulation of postnatal development of the mouse cerebellum. 2018 , 19, 68 | 107 |
| 1527 | New insights into the plant epitranscriptome. 2018 , 69, 4659-4665 | 19 |

| | | |
|------|--|-----|
| 1526 | Insulin-like growth factor 2 mRNA-binding protein 1 (IGF2BP1) in cancer. 2018 , 11, 88 | 96 |
| 1525 | iMethyl-STTNC: Identification of N-methyladenosine sites by extending the idea of SAAC into Chou's PseAAC to formulate RNA sequences. 2018 , 455, 205-211 | 94 |
| 1524 | Enhancing Epitranscriptome Module Detection from mA-Seq Data Using Threshold-Based Measurement Weighting Strategy. 2018 , 2018, 2075173 | 6 |
| 1523 | Ythdf2-mediated mA mRNA clearance modulates neural development in mice. 2018 , 19, 69 | 129 |
| 1522 | The Emerging Field of Epitranscriptomics in Neurodevelopmental and Neuronal Disorders. 2018 , 6, 46 | 56 |
| 1521 | Comparative Analysis of Human Genes Frequently and Occasionally Regulated by mA Modification. 2018 , 16, 127-135 | 2 |
| 1520 | FTO, m A , and the hypothesis of reversible epitranscriptomic mRNA modifications. 2018 , 592, 2012-2022 | 55 |
| 1519 | CLIP-related methodologies and their application to retrovirology. 2018 , 15, 35 | 8 |
| 1518 | Base modifications affecting RNA polymerase and reverse transcriptase fidelity. 2018 , 46, 5753-5763 | 47 |
| 1517 | RNA mA modification and its function in diseases. 2018 , 12, 481-489 | 105 |
| 1516 | FTO regulates adipogenesis by controlling cell cycle progression via mA-YTHDF2 dependent mechanism. 2018 , 1863, 1323-1330 | 71 |
| 1515 | -methyladenosine modification of hepatitis B virus RNA differentially regulates the viral life cycle. 2018 , 115, 8829-8834 | 91 |
| 1514 | N6-Methyladenosine Role in Acute Myeloid Leukaemia. 2018 , 19, | 23 |
| 1513 | mA mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. 2018 , 20, 1074-1083 | 358 |
| 1512 | Chemical Labeling and Affinity Capture of Inosine-Containing RNAs Using Acrylamidofluorescein. 2018 , 29, 2899-2903 | 14 |
| 1511 | Epitranscriptomic Code and Its Alterations in Human Disease. 2018 , 24, 886-903 | 63 |
| 1510 | Fragile X mental retardation protein modulates the stability of its m6A-marked messenger RNA targets. 2018 , 27, 3936-3950 | 89 |
| 1509 | Fungal Genomics. 2018 , | 2 |

| | | |
|------|---|-----|
| 1508 | The m6A-epitranscriptomic signature in neurobiology: from neurodevelopment to brain plasticity. 2018 , 147, 137-152 | 60 |
| 1507 | The RNA Methyltransferase Complex of WTAP, METTL3, and METTL14 Regulates Mitotic Clonal Expansion in Adipogenesis. 2018 , 38, | 65 |
| 1506 | RNA Framework: an all-in-one toolkit for the analysis of RNA structures and post-transcriptional modifications. 2018 , 46, e97 | 30 |
| 1505 | Modification of N6-methyladenosine RNA methylation on heat shock protein expression. 2018 , 13, e0198604 | 31 |
| 1504 | HuR regulates telomerase activity through TERC methylation. 2018 , 9, 2213 | 15 |
| 1503 | H, N, C backbone resonance assignment of human Alkbh5. 2018 , 12, 297-301 | 3 |
| 1502 | Fungal Epigenomics: Detection and Analysis. 2018 , 1775, 155-170 | |
| 1501 | 1,4-Dioxane-Tuned Catalyst-Free Methylation of Amines by CO and NaBH. 2018 , 11, 2296-2299 | 17 |
| 1500 | How Messenger RNA and Nascent Chain Sequences Regulate Translation Elongation. 2018 , 87, 421-449 | 26 |
| 1499 | Nuclear m6A reader YTHDC1 regulates alternative polyadenylation and splicing during mouse oocyte development. 2018 , 14, e1007412 | 211 |
| 1498 | N6-methyladenosine modification and the YTHDF2 reader protein play cell type specific roles in lytic viral gene expression during Kaposi's sarcoma-associated herpesvirus infection. 2018 , 14, e1006995 | 102 |
| 1497 | Modifications in small nuclear RNAs and their roles in spliceosome assembly and function. 2018 , 399, 1265-1276 | 57 |
| 1496 | Deregulation of UBE2C-mediated autophagy repression aggravates NSCLC progression. 2018 , 7, 49 | 43 |
| 1495 | RNA methylation in nuclear pre-mRNA processing. 2018 , 9, e1489 | 24 |
| 1494 | An Epigenetic Spin to ALS and FTD. 2018 , 20, 1-29 | 4 |
| 1493 | mA RNA Methylation Controls Neural Development and Is Involved in Human Diseases. 2019 , 56, 1596-1606 | 81 |
| 1492 | The Epitranscriptome in Translation Regulation. 2019 , 11, | 23 |
| 1491 | Integration of deep feature representations and handcrafted features to improve the prediction of N6-methyladenosine sites. 2019 , 324, 3-9 | 106 |

| | | |
|------|--|-----|
| 1490 | Molecular windows into the human brain for psychiatric disorders. 2019 , 24, 653-673 | 16 |
| 1489 | Transcriptome Informatics. 2019 , 324-340 | 3 |
| 1488 | Glucose Is Involved in the Dynamic Regulation of m6A in Patients With Type 2 Diabetes. 2019 , 104, 665-673 | 78 |
| 1487 | FTO-Dependent N-Methyladenosine Regulates Cardiac Function During Remodeling and Repair. 2019 , 139, 518-532 | 182 |
| 1486 | Methylation of RNA N-methyladenosine in modulation of cytokine responses and tumorigenesis. 2019 , 118, 35-41 | 13 |
| 1485 | The Role of Dynamic m A RNA Methylation in Photobiology. 2019 , 95, 95-104 | 21 |
| 1484 | Multivalent mA motifs promote phase separation of YTHDF proteins. 2019 , 29, 767-769 | 63 |
| 1483 | RNA methylomes reveal the mA-mediated regulation of DNA demethylase gene SLDML2 in tomato fruit ripening. 2019 , 20, 156 | 82 |
| 1482 | Epigenetics in Neurodevelopment: Emerging Role of Circular RNA. 2019 , 13, 327 | 30 |
| 1481 | METTL3 inhibits hepatic insulin sensitivity via N6-methyladenosine modification of Fasn mRNA and promoting fatty acid metabolism. 2019 , 518, 120-126 | 49 |
| 1480 | T(oo)bAd. 2019 , 15, 849-850 | 0 |
| 1479 | Significant epitranscriptomes in heterogeneous cancer. 2019 , 110, 2318-2327 | 10 |
| 1478 | Signal-Off Electrogenenerated Chemiluminescence Biosensing Platform Based on the Quenching Effect between Ferrocene and Ru(bpy)-Functionalized Metal-Organic Frameworks for the Detection of Methylated RNA. 2019 , 91, 11840-11847 | 24 |
| 1477 | Transient Focal Ischemia Significantly Alters the mA Epitranscriptomic Tagging of RNAs in the Brain. 2019 , 50, 2912-2921 | 42 |
| 1476 | RNAs and RNA-Binding Proteins in Immuno-Metabolic Homeostasis and Diseases. 2019 , 6, 106 | 13 |
| 1475 | Comprehensive analysis of differences of N-methyladenosine RNA methylomes between high-fat-fed and normal mouse livers. 2019 , 11, 1267-1282 | 36 |
| 1474 | The -methyladenosine (mA)-forming enzyme METTL3 facilitates M1 macrophage polarization through the methylation of mRNA. 2019 , 317, C762-C775 | 64 |
| 1473 | Programmable RNA N-methyladenosine editing by CRISPR-Cas9 conjugates. 2019 , 15, 865-871 | 80 |

| | | |
|------|---|----------|
| 1472 | Site-specific mA editing. 2019 , 15, 848-849 | 12 |
| 1471 | Epitranscriptomic mechanisms of N6-methyladenosine methylation regulating mammalian hypertension development by determined spontaneously hypertensive rats pericytes. 2019 , 11, 1359-1370 | 15 |
| 1470 | Meclofenamic acid represses spermatogonial proliferation through modulating mA RNA modification. 2019 , 10, 63 | 16 |
| 1469 | Systematic allelic analysis defines the interplay of key pathways in X chromosome inactivation. 2019 , 10, 3129 | 55 |
| 1468 | Small changes, big implications: The impact of mA RNA methylation on gene expression in pluripotency and development. 2019 , 1862, 194402 | 22 |
| 1467 | MTHFD2 links RNA methylation to metabolic reprogramming in renal cell carcinoma. 2019 , 38, 6211-6225 | 45 |
| 1466 | FunDMDeep-m6A: identification and prioritization of functional differential m6A methylation genes. 2019 , 35, i90-i98 | 16 |
| 1465 | Elevated N-methyltransferase expression induced by hepatic stellate cells contributes to the metastasis of hepatocellular carcinoma via regulation of the CD44v3 isoform. 2019 , 13, 1993-2009 | 16 |
| 1464 | Regulation of Viral Infection by the RNA Modification -Methyladenosine. 2019 , 6, 235-253 | 57 |
| 1463 | Epidrugs: targeting epigenetic marks in cancer treatment. 2019 , 14, 1164-1176 | 67 |
| 1462 | Getting the Entire Message: Progress in Isoform Sequencing. 2019 , 10, 709 | 16 |
| 1461 | Selection with a Site-Specifically Modified RNA Library Reveals the Binding Preferences of N-Methyladenosine Reader Proteins. 2019 , 58, 3386-3395 | 14 |
| 1460 | mA enhances the phase separation potential of mRNA. <i>Nature</i> , 2019 , 571, 424-428 | 50.4 241 |
| 1459 | mA methylation modulates adipogenesis through JAK2-STAT3-C/EBPβ signaling. 2019 , 1862, 796-806 | 26 |
| 1458 | The mRNA Metabolism in Human Disease. 2019 , | 0 |
| 1457 | Leukemia Stem Cells in Hematologic Malignancies. 2019 , | 1 |
| 1456 | FMRP Modulates Neural Differentiation through mA-Dependent mRNA Nuclear Export. 2019 , 28, 845-854.e5 | 94 |
| 1455 | Marking RNA: m6A writers, readers, and functions in Arabidopsis. 2019 , 11, 899-910 | 34 |

| | | |
|------|--|-----|
| 1454 | Counting the Cuts: MAZTER-Seq Quantifies mA Levels Using a Methylation-Sensitive Ribonuclease. 2019 , 178, 515-517 | 6 |
| 1453 | Alternative Mechanisms of mRNA Translation Initiation in Cellular Stress Response and Cancer. 2019 , 1157, 117-132 | 2 |
| 1452 | iN6-Methyl (5-step): Identifying RNA N6-methyladenosine sites using deep learning mode via Chou's 5-step rules and Chou's general PseKNC. 2019 , 193, 103811 | 62 |
| 1451 | mA modification of a 3' UTR site reduces RME1 mRNA levels to promote meiosis. 2019 , 10, 3414 | 24 |
| 1450 | The m6A methyltransferase METTL3 promotes osteosarcoma progression by regulating the m6A level of LEF1. 2019 , 516, 719-725 | 74 |
| 1449 | HNRNPA2/B1 is upregulated in endocrine-resistant LCC9 breast cancer cells and alters the miRNA transcriptome when overexpressed in MCF-7 cells. 2019 , 9, 9430 | 45 |
| 1448 | Sequence-specific mA demethylation in RNA by FTO fused to RCas9. 2019 , 25, 1311-1323 | 20 |
| 1447 | The roles of DNA, RNA and histone methylation in ageing and cancer. 2019 , 20, 573-589 | 190 |
| 1446 | Local translation in neurons: visualization and function. 2019 , 26, 557-566 | 171 |
| 1445 | Relating Structure and Dynamics in RNA Biology. 2019 , 11, | 12 |
| 1444 | Single-base mapping of mA by an antibody-independent method. 2019 , 5, eaax0250 | 128 |
| 1443 | PCIF1 Catalyzes m6Am mRNA Methylation to Regulate Gene Expression. 2019 , 75, 620-630.e9 | 95 |
| 1442 | Identification of the mAm Methyltransferase PCIF1 Reveals the Location and Functions of mAm in the Transcriptome. 2019 , 75, 631-643.e8 | 95 |
| 1441 | The m6A demethylase ALKBH5 controls trophoblast invasion at the maternal-fetal interface by regulating the stability of mRNA. 2019 , 9, 3853-3865 | 58 |
| 1440 | Effect of methylation of adenine N on kink turn structure depends on location. 2019 , 16, 1377-1385 | 4 |
| 1439 | Meclofenamic acid promotes cisplatin-induced acute kidney injury by inhibiting fat mass and obesity-associated protein-mediated mA abrogation in RNA. 2019 , 294, 16908-16917 | 23 |
| 1438 | mA RNA Methylation Regulators Contribute to Malignant Progression and Have Clinical Prognostic Impact in Gastric Cancer. 2019 , 9, 1038 | 54 |
| 1437 | How Politico-Economic Systems Shape Individuals' Value of Elderly Care: Evidence From the German Reunification. 2020 , 60, 350-358 | 0 |

| | | |
|------|---|-----|
| 1436 | A Linear Regression Predictor for Identifying N-Methyladenosine Sites Using Frequent Gapped K-mer Pattern. 2019 , 18, 673-680 | 8 |
| 1435 | Viral N-methyladenosine upregulates replication and pathogenesis of human respiratory syncytial virus. 2019 , 10, 4595 | 35 |
| 1434 | N-methyladenosine mRNA marking promotes selective translation of regulons required for human erythropoiesis. 2019 , 10, 4596 | 26 |
| 1433 | The RNA m6A methyltransferase METTL3 promotes pancreatic cancer cell proliferation and invasion. 2019 , 215, 152666 | 63 |
| 1432 | A comprehensive comparison and analysis of computational predictors for RNA N6-methyladenosine sites of <i>Saccharomyces cerevisiae</i> . 2019 , 18, 367-376 | 34 |
| 1431 | METTL3-mediated N6-methyladenosine modification is critical for epithelial-mesenchymal transition and metastasis of gastric cancer. 2019 , 18, 142 | 197 |
| 1430 | Synthesis, Properties, and Characterization of Field-Effect Transistor Alloy Nanoparticles and Its Slurry. 2019 , | |
| 1429 | A nucleotide resolution map of Top2-linked DNA breaks in the yeast and human genome. 2019 , 10, 4846 | 33 |
| 1428 | HLMethy: a machine learning-based model to identify the hidden labels of mA candidates. 2019 , 101, 575-584 | 2 |
| 1427 | Antibody cross-reactivity accounts for widespread appearance of mA in 5'UTRs. 2019 , 10, 5126 | 42 |
| 1426 | Structure and regulation of ZCCHC4 in mA-methylation of 28S rRNA. 2019 , 10, 5042 | 32 |
| 1425 | The role of N6-methyladenosine modification on diapause in silkworm (<i>Bombyx mori</i>) strains that exhibit different voltinism. 2019 , 86, 1981-1992 | 2 |
| 1424 | Integrated analysis of transcriptome-wide mA methylome of osteosarcoma stem cells enriched by chemotherapy. 2019 , 11, 1693-1715 | 37 |
| 1423 | m6A RNA Methylation Controls Proliferation of Human Glioma Cells by Influencing Cell Apoptosis. 2019 , 159, 119-125 | 32 |
| 1422 | N6-Methyladenosine Modification Controls Circular RNA Immunity. 2019 , 76, 96-109.e9 | 207 |
| 1421 | How do cells cope with RNA damage and its consequences?. 2019 , 294, 15158-15171 | 52 |
| 1420 | ZFP217 regulates adipogenesis by controlling mitotic clonal expansion in a METTL3-mA dependent manner. 2019 , 16, 1785-1793 | 26 |
| 1419 | Regulation of Co-transcriptional Pre-mRNA Splicing by mA through the Low-Complexity Protein hnRNPG. 2019 , 76, 70-81.e9 | 124 |

| | | |
|------|---|-----|
| 1418 | The role of mRNA mA methylation in the nervous system. 2019 , 9, 66 | 51 |
| 1417 | Upregulated METTL3 promotes metastasis of colorectal Cancer via miR-1246/SPRED2/MAPK signaling pathway. 2019 , 38, 393 | 142 |
| 1416 | The RNA demethylase FTO is required for maintenance of bone mass and functions to protect osteoblasts from genotoxic damage. 2019 , 116, 17980-17989 | 40 |
| 1415 | Epitranscriptomic systems regulate the translation of reactive oxygen species detoxifying and disease linked selenoproteins. 2019 , 143, 573-593 | 10 |
| 1414 | Distinct methylation levels of mature microRNAs in gastrointestinal cancers. 2019 , 10, 3888 | 76 |
| 1413 | "Omics" and "epi-omics" underlying the cell adaptation to insulin resistance. 2019 , 27S, S42-S48 | 9 |
| 1412 | Accurate detection of mA RNA modifications in native RNA sequences. 2019 , 10, 4079 | 166 |
| 1411 | Reading, writing and erasing mRNA methylation. 2019 , 20, 608-624 | 542 |
| 1410 | N-Methyladenosine Modulates Nonsense-Mediated mRNA Decay in Human Glioblastoma. 2019 , 79, 5785-5798 | 98 |
| 1409 | Dynamic methylation of internal mRNA N-methylguanosine and its regulatory role in translation. 2019 , 29, 927-941 | 50 |
| 1408 | Dysregulation of N-methyladenosine regulators predicts poor patient survival in mantle cell lymphoma. 2019 , 18, 3682-3690 | 13 |
| 1407 | Predict Epitranscriptome Targets and Regulatory Functions of N-Methyladenosine (mA) Writers and Erasers. 2019 , 15, 1176934319871290 | 13 |
| 1406 | Effect of Saliva Collection Methods on the Detection of Periodontium-Related Genetic and Epigenetic Biomarkers-A Pilot Study. 2019 , 20, | 16 |
| 1405 | RNA-modifying enzymes and their function in a chromatin context. 2019 , 26, 858-862 | 14 |
| 1404 | Identification of FUBP1 as a Long Tail Cancer Driver and Widespread Regulator of Tumor Suppressor and Oncogene Alternative Splicing. 2019 , 28, 3435-3449.e5 | 12 |
| 1403 | Crystal structure of human YTHDC2 YTH domain. 2019 , 518, 678-684 | 10 |
| 1402 | Development and validation of monoclonal antibodies against N6-methyladenosine for the detection of RNA modifications. 2019 , 14, e0223197 | 9 |
| 1401 | Insights into Biological Role of LncRNAs in Epithelial-Mesenchymal Transition. 2019 , 8, | 96 |

| | | |
|------|--|-----|
| 1400 | A general LC-MS-based RNA sequencing method for direct analysis of multiple-base modifications in RNA mixtures. 2019 , 47, e125 | 19 |
| 1399 | Evolution of a reverse transcriptase to map N-methyladenosine in human messenger RNA. 2019 , 16, 1281-1288 | 55 |
| 1398 | DART-seq: an antibody-free method for global mA detection. 2019 , 16, 1275-1280 | 134 |
| 1397 | Readers of the mA epitranscriptomic code. 2019 , 1862, 329-342 | 25 |
| 1396 | Changes in melanocyte RNA and DNA methylation favour pheomelanin synthesis and may avoid systemic oxidative stress after dietary cysteine supplementation in birds. 2019 , 28, 1030-1042 | 9 |
| 1395 | Eukaryotic Translation Elongation is Modulated by Single Natural Nucleotide Derivatives in the Coding Sequences of mRNAs. 2019 , 10, | 18 |
| 1394 | Mettl3 Regulates Osteogenic Differentiation and Alternative Splicing of Vegfa in Bone Marrow Mesenchymal Stem Cells. 2019 , 20, | 49 |
| 1393 | Eukaryotic 5-methylcytosine (m ⁵ C) RNA Methyltransferases: Mechanisms, Cellular Functions, and Links to Disease. 2019 , 10, | 135 |
| 1392 | The role of N-methyladenosine RNA methylation in the heat stress response of sheep (<i>Ovis aries</i>). 2019 , 24, 333-342 | 14 |
| 1391 | Deregulation of Circular RNAs in Cancer From the Perspectives of Aberrant Biogenesis, Transport and Removal. 2019 , 10, 16 | 20 |
| 1390 | A Reader-Based Assay for mA Writers and Erasers. 2019 , 91, 3078-3084 | 12 |
| 1389 | Alternative conformation induced by substrate binding for <i>Arabidopsis thaliana</i> N6-methyl-AMP deaminase. 2019 , 47, 3233-3243 | 2 |
| 1388 | NanoMod: a computational tool to detect DNA modifications using Nanopore long-read sequencing data. 2019 , 20, 78 | 31 |
| 1387 | m ⁶ A mRNA Destiny: Chained to the rhYTHm by the YTH-Containing Proteins. 2019 , 10, | 21 |
| 1386 | The mA methyltransferase METTL3 promotes bladder cancer progression via AFF4/NF- κ B/MYC signaling network. 2019 , 38, 3667-3680 | 188 |
| 1385 | Epitranscriptomic Signatures in lncRNAs and Their Possible Roles in Cancer. 2019 , 10, | 53 |
| 1384 | Expression profiles and prognostic significance of RNA N6-methyladenosine-related genes in patients with hepatocellular carcinoma: evidence from independent datasets. 2019 , 11, 3921-3931 | 54 |
| 1383 | Nature Biotechnology's academic spinouts of 2018. 2019 , 37, 601-612 | 5 |

| | | |
|------|---|-----|
| 1382 | Functional roles of hnRNPA2/B1 regulated by METTL3 in mammalian embryonic development. 2019 , 9, 8640 | 22 |
| 1381 | Interplay Between -Methyladenosine (m ⁶ A) and Non-coding RNAs in Cell Development and Cancer. 2019 , 7, 116 | 67 |
| 1380 | The epitranscriptome in translation regulation: mRNA and tRNA modifications as the two sides of the same coin?. 2019 , 593, 1483-1493 | 15 |
| 1379 | Epigenetic Methylations on N ⁶ -Adenine and N ⁶ -Adenosine with the same Input but Different Output. 2019 , 20, | 16 |
| 1378 | LC/MS analysis and deep sequencing reveal the accurate RNA composition in the HIV-1 virion. 2019 , 9, 8697 | 11 |
| 1377 | EBV epitranscriptome reprogramming by METTL14 is critical for viral-associated tumorigenesis. 2019 , 15, e1007796 | 54 |
| 1376 | Post-transcriptional control of immune responses and its potential application. 2019 , 8, e1063 | 7 |
| 1375 | m ⁶ A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. 2019 , 10, 2782 | 254 |
| 1374 | Reduced m ⁶ A modification predicts malignant phenotypes and augmented Wnt/PI3K-Akt signaling in gastric cancer. 2019 , 8, 4766-4781 | 118 |
| 1373 | Deciphering the "m ⁶ A Code" via Antibody-Independent Quantitative Profiling. 2019 , 178, 731-747.e16 | 180 |
| 1372 | Chemical Modifications and Their Role in Long Non-coding RNAs. 2019 , 35-63 | |
| 1371 | The Fat Mass and Obesity-Associated Protein (FTO) Regulates Locomotor Responses to Novelty via D2R Medium Spiny Neurons. 2019 , 27, 3182-3198.e9 | 8 |
| 1370 | Introduction to Bioinformatics. 2019 , 1986, 1-15 | 6 |
| 1369 | Targeted m ⁶ A reader proteins to study the epitranscriptome. 2019 , 621, 1-16 | 2 |
| 1368 | RNAmod: an integrated system for the annotation of mRNA modifications. 2019 , 47, W548-W555 | 42 |
| 1367 | The role of m ⁶ A RNA methylation in human cancer. 2019 , 18, 103 | 359 |
| 1366 | The dynamics of FTO binding and demethylation from the m ⁶ A motifs. 2019 , 16, 1179-1189 | 19 |
| 1365 | m ⁶ A Regulates Neurogenesis and Neuronal Development by Modulating Histone Methyltransferase Ezh2. 2019 , 17, 154-168 | 73 |

| | | |
|------|---|-----|
| 1364 | Glioblastoma stem cells: lessons from the tumor hierarchy in a lethal cancer. 2019 , 33, 591-609 | 135 |
| 1363 | METTL3 mediated m ^A modification plays an oncogenic role in cutaneous squamous cell carcinoma by regulating Nip63. 2019 , 515, 310-317 | 25 |
| 1362 | Detection of DNA base modifications by deep recurrent neural network on Oxford Nanopore sequencing data. 2019 , 10, 2449 | 127 |
| 1361 | Discovering and Mapping the Modified Nucleotides That Comprise the Epitranscriptome of mRNA. 2019 , 11, | 35 |
| 1360 | The perturbed expression of m ⁶ A in parthenogenetic mouse embryos. 2019 , 42, 666-670 | 9 |
| 1359 | Profiling of RNA N ⁶ -methyladenosine methylation during follicle selection in chicken ovary. 2019 , 98, 6117-6124 | 12 |
| 1358 | N ⁶ -methyladenosine modifications: interactions with novel RNA-binding proteins and roles in signal transduction. 2019 , 16, 991-1000 | 30 |
| 1357 | Role of identified RNA N ⁶ -methyladenosine methylation in liver. 2019 , 578, 45-50 | 16 |
| 1356 | The epitranscriptome and synaptic plasticity. 2019 , 59, 41-48 | 15 |
| 1355 | RNA m ^A methylation regulates the epithelial mesenchymal transition of cancer cells and translation of Snail. 2019 , 10, 2065 | 234 |
| 1354 | Where, When, and How: Context-Dependent Functions of RNA Methylation Writers, Readers, and Erasers. 2019 , 74, 640-650 | 511 |
| 1353 | N ⁶ -methyladenosine regulatory machinery in plants: composition, function and evolution. 2019 , 17, 1194-120860 | |
| 1352 | A Review in Research Progress Concerning m ⁶ A Methylation and Immunoregulation. 2019 , 10, 922 | 111 |
| 1351 | Impaired autophagic degradation of lncRNA ARHGAP5-AS1 promotes chemoresistance in gastric cancer. 2019 , 10, 383 | 71 |
| 1350 | Reading canonical and modified nucleobases in 16S ribosomal RNA using nanopore native RNA sequencing. 2019 , 14, e0216709 | 78 |
| 1349 | Exposure to environmental toxicants reduces global N ⁶ -methyladenosine RNA methylation and alters expression of RNA methylation modulator genes. 2019 , 175, 228-234 | 39 |
| 1348 | Reassessment of Viroid RNA Cytosine Methylation Status at the Single Nucleotide Level. 2019 , 11, | 3 |
| 1347 | Excessive miR-25-3p maturation via N-methyladenosine stimulated by cigarette smoke promotes pancreatic cancer progression. 2019 , 10, 1858 | 138 |

| | | |
|------|---|-----|
| 1346 | Mettl3-mediated mRNA mA methylation promotes dendritic cell activation. 2019 , 10, 1898 | 167 |
| 1345 | Detection of N6-methyladenosine modification residues (Review). 2019 , 43, 2267-2278 | 24 |
| 1344 | Small-Molecule Targeting of Oncogenic FTO Demethylase in Acute Myeloid Leukemia. 2019 , 35, 677-691.e10 | 239 |
| 1343 | Identification of entacapone as a chemical inhibitor of FTO mediating metabolic regulation through FOXO1. 2019 , 11, | 97 |
| 1342 | DRUM: Inference of Disease-Associated mA RNA Methylation Sites From a Multi-Layer Heterogeneous Network. 2019 , 10, 266 | 18 |
| 1341 | Getting a hold on cytosine methylation in mRNA. 2019 , 26, 339-340 | 4 |
| 1340 | Genome-wide identification of mRNA 5-methylcytosine in mammals. 2019 , 26, 380-388 | 90 |
| 1339 | RNA modifications regulating cell fate in cancer. 2019 , 21, 552-559 | 139 |
| 1338 | m6Acomet: large-scale functional prediction of individual mA RNA methylation sites from an RNA co-methylation network. 2019 , 20, 223 | 17 |
| 1337 | RNAMethyPro: a biologically conserved signature of N6-methyladenosine regulators for predicting survival at pan-cancer level. 2019 , 3, 13 | 15 |
| 1336 | METTL14 is essential for cell survival and insulin secretion. 2019 , 1865, 2138-2148 | 19 |
| 1335 | The RNA N-methyladenosine modification landscape of human fetal tissues. 2019 , 21, 651-661 | 67 |
| 1334 | RNA regulatory processes in RNA virus biology. 2019 , 10, e1536 | 15 |
| 1333 | The interactome of a family of potential methyltransferases in HeLa cells. 2019 , 9, 6584 | 26 |
| 1332 | Chemical RNA Modifications: The Plant Epitranscriptome. 2019 , 291-310 | 0 |
| 1331 | Oxidative stress: One potential factor for arsenite-induced increase of N-methyladenosine in human keratinocytes. 2019 , 69, 95-103 | 24 |
| 1330 | Carbon Nanotube- and Asbestos-Induced DNA and RNA Methylation Changes in Bronchial Epithelial Cells. 2019 , 32, 850-860 | 19 |
| 1329 | METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. 2019 , 74, 1278-1290.e9 | 130 |

| | | |
|------|---|----------|
| 1328 | Translational Control under Stress: Reshaping the Translatome. 2019 , 41, e1900009 | 49 |
| 1327 | The chemical diversity of RNA modifications. 2019 , 476, 1227-1245 | 51 |
| 1326 | N-Methyladenosine (mA): A Promising New Molecular Target in Acute Myeloid Leukemia. 2019 , 9, 251 | 38 |
| 1325 | METTL3 Promotes the Proliferation and Mobility of Gastric Cancer Cells. 2019 , 14, 25-31 | 66 |
| 1324 | Quantification and discovery of sequence determinants of protein-per-mRNA amount in 29 human tissues. 2019 , 15, e8513 | 33 |
| 1323 | RNA epigenetics and cardiovascular diseases. 2019 , 129, 272-280 | 18 |
| 1322 | m6A Reader YTHDF2 Regulates LPS-Induced Inflammatory Response. 2019 , 20, | 67 |
| 1321 | The Critical Role of RNA mA Methylation in Cancer. 2019 , 79, 1285-1292 | 310 |
| 1320 | N-Methyladenosine and Viral Infection. 2019 , 10, 417 | 36 |
| 1319 | RNA modifications in gene expression control. 2019 , 1862, 219-221 | 2 |
| 1318 | Down-Regulation of m6A mRNA Methylation Is Involved in Dopaminergic Neuronal Death. 2019 , 10, 2355-2363 | 79 |
| 1317 | The m6A reader YTHDF1 regulates axon guidance through translational control of Robo3.1 expression. 2019 , 47, 4765-4777 | 83 |
| 1316 | Functions of RNA N6-methyladenosine modification in cancer progression. 2019 , 46, 2567-2575 | 19 |
| 1315 | Characteristics and homogeneity of N6-methylation in human genomes. 2019 , 9, 5185 | 8 |
| 1314 | Analysis of Transcriptome and Epitranscriptome in Plants Using PacBio Iso-Seq and Nanopore-Based Direct RNA Sequencing. 2019 , 10, 253 | 57 |
| 1313 | Histone H3 trimethylation at lysine 36 guides mA RNA modification co-transcriptionally. <i>Nature</i> , 2019 , 567, 414-419 | 50.4 232 |
| 1312 | METTL3 inhibits BMSC adipogenic differentiation by targeting the JAK1/STAT5/C/EBPβ pathway an mA-YTHDF2-dependent manner. 2019 , 33, 7529-7544 | 68 |
| 1311 | Transcriptome-Wide Mapping of m A and m Am at Single-Nucleotide Resolution Using miCLIP. 2019 , 126, e88 | 13 |

| | | |
|------|--|-----|
| 1310 | Importance of m N-methyladenosine (mA) RNA modification in cancer. 2019 , 36, 36 | 44 |
| 1309 | Transcriptome-wide profiling of multiple RNA modifications simultaneously at single-base resolution. 2019 , 116, 6784-6789 | 79 |
| 1308 | An Overview of Methodologies in Studying lncRNAs in the High-Throughput Era: When Acronyms ATTACK!. 2019 , 1933, 1-30 | 7 |
| 1307 | Transcriptome-wide analysis of N6-methyladenosine uncovers its regulatory role in gene expression in the lepidopteran <i>Bombyx mori</i> . 2019 , 28, 703-715 | 12 |
| 1306 | An Adversarial DNA N-Methyladenine-Sensor Network Preserves Polycomb Silencing. 2019 , 74, 1138-1147.e6 | 68 |
| 1305 | N-Methylation of Adenosine of mRNA Contributes to PARP Inhibitor Resistance. 2019 , 79, 2812-2820 | 81 |
| 1304 | Epitranscriptomic RNA Methylation in Plant Development and Abiotic Stress Responses. 2019 , 10, 500 | 41 |
| 1303 | Regulation of Gene Expression by N-methyladenosine in Cancer. 2019 , 29, 487-499 | 88 |
| 1302 | RNA N6-methyladenosine demethylase FTO promotes breast tumor progression through inhibiting BNIP3. 2019 , 18, 46 | 233 |
| 1301 | Endoribonucleolytic Cleavage of mA-Containing RNAs by RNase P/MRP Complex. 2019 , 74, 494-507.e8 | 189 |
| 1300 | The Untranslated Regions of mRNAs in Cancer. 2019 , 5, 245-262 | 32 |
| 1299 | RNA N6-methyladenosine modification participates in miR-660/E2F3 axis-mediated inhibition of cell proliferation in gastric cancer. 2019 , 215, 152393 | 11 |
| 1298 | Milk Exosomes and MicroRNAs: Potential Epigenetic Regulators. 2019 , 1467-1494 | 1 |
| 1297 | Analytical methods for locating modifications in nucleic acids. 2019 , 30, 1618-1626 | 19 |
| 1296 | mA methylation controls pluripotency of porcine induced pluripotent stem cells by targeting SOCS3/JAK2/STAT3 pathway in a YTHDF1/YTHDF2-orchestrated manner. 2019 , 10, 171 | 42 |
| 1295 | Dynamic mA mRNA methylation reveals the role of METTL3-mA-CDCP1 signaling axis in chemical carcinogenesis. 2019 , 38, 4755-4772 | 91 |
| 1294 | CCR7 Chemokine Receptor-Inducible lnc-Dpf3 Restrains Dendritic Cell Migration by Inhibiting HIF-1 β -Mediated Glycolysis. 2019 , 50, 600-615.e15 | 101 |
| 1293 | The lncRNA BDNF-AS is an epigenetic regulator in the human amygdala in early onset alcohol use disorders. 2019 , 9, 34 | 46 |

| | | | |
|------|--|------|-----|
| 1292 | Anti-tumour immunity controlled through mRNA m ⁶ A methylation and YTHDF1 in dendritic cells. <i>Nature</i> , 2019 , 566, 270-274 | 50.4 | 358 |
| 1291 | Structural insights into FTO's catalytic mechanism for the demethylation of multiple RNA substrates. 2019 , 116, 2919-2924 | | 87 |
| 1290 | Messenger RNA Modifications in Plants. 2019 , 24, 328-341 | | 42 |
| 1289 | Colocalization of m ⁶ A and G-Quadruplex-Forming Sequences in Viral RNA (HIV, Zika, Hepatitis B, and SV40) Suggests Topological Control of Adenosine -Methylation. 2019 , 5, 218-228 | | 26 |
| 1288 | The Opening of Pandora's Box: An Emerging Role of Long Noncoding RNA in Viral Infections. 2018 , 9, 3138 | | 28 |
| 1287 | "Mining the Epitranscriptome: Detection of RNA editing and RNA modifications". 2019 , 156, 1-4 | | 3 |
| 1286 | Functions of RNA N ⁶ -methyladenosine modification in cancer progression. 2019 , 46, 1383-1391 | | 17 |
| 1285 | The role of m ⁶ A RNA methylation in cancer. 2019 , 112, 108613 | | 228 |
| 1284 | Transition Metal-Catalyzed Reductive Functionalization of CO ₂ . 2019 , 2019, 2437-2447 | | 26 |
| 1283 | Cv ^{m6A} : A Visualization and Exploration Database for m ⁶ As in Cell Lines. 2019 , 8, | | 29 |
| 1282 | WHISTLE: a high-accuracy map of the human N ⁶ -methyladenosine (m ⁶ A) epitranscriptome predicted using a machine learning approach. 2019 , 47, e41 | | 106 |
| 1281 | Structural Stability of the Anticodon Stem Loop Domains of the Unmodified Yeast and Escherichia coli tRNA ^{Phe} : Differing Views from Different Force Fields. 2019 , 4, 3029-3044 | | |
| 1280 | Identification of METTL14 in Kidney Renal Clear Cell Carcinoma Using Bioinformatics Analysis. 2019 , 2019, 5648783 | | 24 |
| 1279 | Mammalian RNA switches: Molecular rheostats in gene regulation, disease, and medicine. 2019 , 17, 1326-1338 | 6 | |
| 1278 | Arabidopsis TRM5 encodes a nuclear-localised bifunctional tRNA guanine and inosine-N ¹ -methyltransferase that is important for growth. 2019 , 14, e0225064 | | 9 |
| 1277 | Association of N ⁶ -methyladenosine with viruses and related diseases. 2019 , 16, 133 | | 24 |
| 1276 | YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. 2019 , 18, 163 | | 113 |
| 1275 | KIAA1429 contributes to liver cancer progression through N ⁶ -methyladenosine-dependent post-transcriptional modification of GATA3. 2019 , 18, 186 | | 163 |

| | | |
|------|---|-----|
| 1274 | mA in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. 2019 , 10, 5332 | 119 |
| 1273 | Functions of N6-methyladenosine and its role in cancer. 2019 , 18, 176 | 309 |
| 1272 | The interplay between m6A RNA methylation and noncoding RNA in cancer. 2019 , 12, 121 | 160 |
| 1271 | The RNA-binding protein FMRP facilitates the nuclear export of -methyladenosine-containing mRNAs. 2019 , 294, 19889-19895 | 41 |
| 1270 | N-Methyladenosine: A Novel RNA Imprint in Human Cancer. 2019 , 9, 1407 | 15 |
| 1269 | mA mRNA methylation regulates CTNNB1 to promote the proliferation of hepatoblastoma. 2019 , 18, 188 | 79 |
| 1268 | RADAR: differential analysis of MeRIP-seq data with a random effect model. 2019 , 20, 294 | 16 |
| 1267 | Limited antibody specificity compromises epitranscriptomic analyses. 2019 , 10, 5669 | 21 |
| 1266 | NMR Chemical Exchange Measurements Reveal That -Methyladenosine Slows RNA Annealing. 2019 , 141, 19988-19993 | 25 |
| 1265 | Spatial sorting enables comprehensive characterization of liver zonation. 2019 , 1, 899-911 | 42 |
| 1264 | Hematopoietic stem cells: self-renewal and expansion. 2019 , 26, 258-265 | 7 |
| 1263 | N-methyladenosine (mA) RNA modification in gastrointestinal tract cancers: roles, mechanisms, and applications. 2019 , 18, 178 | 44 |
| 1262 | microRNAs Tune Oxidative Stress in Cancer Therapeutic Tolerance and Resistance. 2019 , 20, | 12 |
| 1261 | Atlas of quantitative single-base-resolution N-methyl-adenine methylomes. 2019 , 10, 5636 | 60 |
| 1260 | The mA eraser FTO facilitates proliferation and migration of human cervical cancer cells. 2019 , 19, 321 | 62 |
| 1259 | m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. 2019 , 14, e0224850 | 11 |
| 1258 | Analytical Methods for Deciphering RNA Modifications. 2019 , 91, 743-756 | 34 |
| 1257 | An N-methyladenosine at the transited codon 273 of p53 pre-mRNA promotes the expression of R273H mutant protein and drug resistance of cancer cells. 2019 , 160, 134-145 | 48 |

| | | |
|------|---|-----|
| 1256 | Mettl3 Deficiency Sustains Long-Chain Fatty Acid Absorption through Suppressing Traf6-Dependent Inflammation Response. 2019 , 202, 567-578 | 44 |
| 1255 | Differential m6A methylomes between two major life stages allows potential regulations in <i>Trypanosoma brucei</i> . 2019 , 508, 1286-1290 | 11 |
| 1254 | FTO Knockout Causes Chromosome Instability and G2/M Arrest in Mouse GC-1 Cells. 2018 , 9, 732 | 17 |
| 1253 | The mA Writer: Rise of a Machine for Growing Tasks. 2019 , 58, 363-378 | 70 |
| 1252 | The role of RNA adenosine demethylases in the control of gene expression. 2019 , 1862, 343-355 | 17 |
| 1251 | m6A modification of non-coding RNA and the control of mammalian gene expression. 2019 , 1862, 310-318 | 68 |
| 1250 | mA modification controls the innate immune response to infection by targeting type I interferons. 2019 , 20, 173-182 | 192 |
| 1249 | Epigenetic Tools in Chronic Pain Studies. 2019 , 1-48 | |
| 1248 | Global analysis of N6-methyladenosine functions and its disease association using deep learning and network-based methods. 2019 , 15, e1006663 | 25 |
| 1247 | Modulation of Bacterial sRNAs Activity by Epigenetic Modifications: Inputs from the Eukaryotic miRNAs. 2018 , 10, | 7 |
| 1246 | Focus on Translation Initiation of the HIV-1 mRNAs. 2018 , 20, | 13 |
| 1245 | The Biology of mA RNA Methylation in Normal and Malignant Hematopoiesis. 2019 , 9, 25-33 | 76 |
| 1244 | mA mRNA modification regulates mammalian spermatogenesis. 2019 , 1862, 403-411 | 28 |
| 1243 | Detection of ribonucleoside modifications by liquid chromatography coupled with mass spectrometry. 2019 , 1862, 280-290 | 25 |
| 1242 | Steering pluripotency and differentiation with N-methyladenosine RNA modification. 2019 , 1862, 394-402 | 9 |
| 1241 | On-line trapping/capillary hydrophilic-interaction liquid chromatography/mass spectrometry for sensitive determination of RNA modifications from human blood. 2019 , 30, 553-557 | 36 |
| 1240 | mA: Widespread regulatory control in virus replication. 2019 , 1862, 370-381 | 24 |
| 1239 | Gene2vec: gene subsequence embedding for prediction of mammalian -methyladenosine sites from mRNA. 2019 , 25, 205-218 | 279 |

| | | |
|------|---|----|
| 1238 | Recent Applications of Diazirines in Chemical Proteomics. 2019 , 25, 4885-4898 | 30 |
| 1237 | Changes of RNA N-methyladenosine in the hormesis effect induced by arsenite on human keratinocyte cells. 2019 , 56, 84-92 | 23 |
| 1236 | Epitranscriptomics: Correlation of N6-methyladenosine RNA methylation and pathway dysregulation in the hippocampus of HIV transgenic rats. 2019 , 14, e0203566 | 7 |
| 1235 | Epigenetics in Hyperphagia. 2019 , 603-621 | |
| 1234 | A dynamic reversible RNA N -methyladenosine modification: current status and perspectives. 2019 , 234, 7948-7956 | 53 |
| 1233 | Understanding mA Function Through Uncovering the Diversity Roles of YTH Domain-Containing Proteins. 2019 , 61, 355-364 | 20 |
| 1232 | Methods for RNA Modification Mapping Using Deep Sequencing: Established and New Emerging Technologies. 2019 , 10, | 65 |
| 1231 | MTCH2 promotes adipogenesis in intramuscular preadipocytes via an mA-YTHDF1-dependent mechanism. 2019 , 33, 2971-2981 | 37 |
| 1230 | mA-mediated translation regulation. 2019 , 1862, 301-309 | 17 |
| 1229 | Mapping N -Methyladenosine (m A) in RNA: Established Methods, Remaining Challenges, and Emerging Approaches. 2019 , 25, 3455-3464 | 15 |
| 1228 | RNA Modifications: Reversal Mechanisms and Cancer. 2019 , 58, 312-329 | 28 |
| 1227 | Misincorporation signatures for detecting modifications in mRNA: Not as simple as it sounds. 2019 , 156, 53-59 | 14 |
| 1226 | N6-methyladenosine modification and METTL3 modulate enterovirus 71 replication. 2019 , 47, 362-374 | 70 |
| 1225 | Mechanistic insights into mA RNA enzymes. 2019 , 1862, 222-229 | 57 |
| 1224 | Determination of enrichment factors for modified RNA in MeRIP experiments. 2019 , 156, 102-109 | 9 |
| 1223 | Katalytische reduktive N-Alkylierungen unter Verwendung von CO ₂ und Carbonsäurederivaten: Aktuelle Entwicklungen. 2019 , 131, 12950-12968 | 11 |
| 1222 | Epitranscriptomics. 2019 , | 1 |
| 1221 | LncVar: Deciphering Genetic Variations Associated with Long Noncoding Genes. 2019 , 1870, 189-198 | 2 |

| | | |
|------|--|-----|
| 1220 | Profiling of N-Methyladenosine in Zika Virus RNA and Host Cellular mRNA. 2019 , 1870, 209-218 | 6 |
| 1219 | Dot Blot Analysis for Measuring Global N-Methyladenosine Modification of RNA. 2019 , 1870, 263-271 | 27 |
| 1218 | High-Resolution Mapping of N -Methyladenosine Using mA Crosslinking Immunoprecipitation Sequencing (mA-CLIP-Seq). 2019 , 1870, 69-79 | 9 |
| 1217 | Identification of Methylated Transcripts Using the TRIBE Approach. 2019 , 1870, 89-106 | 6 |
| 1216 | Combining NMR Spectroscopy and Molecular Dynamic Simulations to Solve and Analyze the Structure of Protein-RNA Complexes. 2019 , 614, 393-422 | 6 |
| 1215 | Decoding the Atlas of RNA Modifications from Epitranscriptome Sequencing Data. 2019 , 1870, 107-124 | 3 |
| 1214 | HAMR: High-Throughput Annotation of Modified Ribonucleotides. 2019 , 1870, 51-67 | 9 |
| 1213 | A novel mA reader Prrc2a controls oligodendroglial specification and myelination. 2019 , 29, 23-41 | 124 |
| 1212 | Cap-specific, terminal N-methylation by a mammalian mAm methyltransferase. 2019 , 29, 80-82 | 86 |
| 1211 | The N-Methyladenosine mRNA Methylase METTL3 Controls Cardiac Homeostasis and Hypertrophy. 2019 , 139, 533-545 | 149 |
| 1210 | Improved yield of rhEPO in CHO cells with synthetic 5' UTR. 2019 , 41, 231-239 | 5 |
| 1209 | Catalytic Reductive N-Alkylations Using CO and Carboxylic Acid Derivatives: Recent Progress and Developments. 2019 , 58, 12820-12838 | 65 |
| 1208 | Going the Distance: Optimizing RNA-Seq Strategies for Transcriptomic Analysis of Complex Viral Genomes. 2019 , 93, | 19 |
| 1207 | The dynamic RNA modification 5-methylcytosine and its emerging role as an epitranscriptomic mark. 2019 , 10, e1510 | 124 |
| 1206 | The mA-methylase complex and mRNA export. 2019 , 1862, 319-328 | 23 |
| 1205 | It's complicated mA-dependent regulation of gene expression in cancer. 2019 , 1862, 382-393 | 23 |
| 1204 | Dynamic and reversible RNA N -methyladenosine methylation. 2019 , 10, e1507 | 16 |
| 1203 | Solution structure of the RNA recognition domain of METTL3-METTL14 N-methyladenosine methyltransferase. 2019 , 10, 272-284 | 47 |

| | | |
|------|--|----|
| 1202 | Dysregulated N6-methyladenosine methylation writer METTL3 contributes to the proliferation and migration of gastric cancer. 2020 , 235, 548-562 | 65 |
| 1201 | In silico genome-wide identification of m6A-associated SNPs as potential functional variants for periodontitis. 2020 , 235, 900-908 | 12 |
| 1200 | A Mass Spectrometric Assay of METTL3/METTL14 Methyltransferase Activity. 2020 , 25, 361-371 | 14 |
| 1199 | Reading Chemical Modifications in the Transcriptome. 2019 , 432, 1824-1824 | 10 |
| 1198 | Dissecting the mA methylation affection on afatinib resistance in non-small cell lung cancer. 2020 , 20, 227-234 | 18 |
| 1197 | Emerging role of m A RNA methylation in nutritional physiology and metabolism. 2020 , 21, e12942 | 33 |
| 1196 | TNF- α suppresses sweat gland differentiation of MSCs by reducing FTO-mediated mA-demethylation of Nanog mRNA. 2020 , 63, 80-91 | 14 |
| 1195 | Evolution of the RNA -Methyladenosine Methylome Mediated by Genomic Duplication. 2020 , 182, 345-360 | 42 |
| 1194 | Chemo-enzymatic treatment of RNA to facilitate analyses. 2020 , 11, e1561 | 26 |
| 1193 | The N6-methyladenosine mRNA methylase METTL14 promotes renal ischemic reperfusion injury via suppressing YAP1. 2020 , 121, 524-533 | 22 |
| 1192 | Noncoding RNA in Liver Regeneration-From Molecular Mechanisms to Clinical Implications. 2020 , 40, 70-83 | 4 |
| 1191 | The how and why of lncRNA function: An innate immune perspective. 2020 , 1863, 194419 | 88 |
| 1190 | YTH domain family 2 promotes lung cancer cell growth by facilitating 6-phosphogluconate dehydrogenase mRNA translation. 2020 , 41, 541-550 | 72 |
| 1189 | Recent advances in the detection of base modifications using the Nanopore sequencer. 2020 , 65, 25-33 | 45 |
| 1188 | Association of polymorphisms in the vitamin D receptor gene with susceptibility to and severity of hand, foot, and mouth disease caused by coxsackievirus A16. 2020 , 92, 271-278 | 1 |
| 1187 | Landscape and Regulation of mA and mAm Methylome across Human and Mouse Tissues. 2020 , 77, 426-440.e677 | |
| 1186 | High-resolution ion mobility spectrometry-mass spectrometry of isomeric/isobaric ribonucleotide variants. 2020 , 55, e4465 | 11 |
| 1185 | Epitranscriptomic marks: Emerging modulators of RNA virus gene expression. 2020 , 11, e1576 | 21 |

| | | |
|------|--|----|
| 1184 | Methylation of adenosine at the N position post-transcriptionally regulates hepatic P450s expression. 2020 , 171, 113697 | 11 |
| 1183 | Loss of RDM1 enhances hepatocellular carcinoma progression via p53 and Ras/Raf/ERK pathways. 2020 , 14, 373-386 | 24 |
| 1182 | Comprehensive review and assessment of computational methods for predicting RNA post-transcriptional modification sites from RNA sequences. 2020 , 21, 1676-1696 | 48 |
| 1181 | Topologies of N -adenosine methylation (m A) in land plant mitochondria and their putative effects on organellar gene expression. 2020 , 101, 1269-1286 | 12 |
| 1180 | METTL3 Regulates Osteoblast Differentiation and Inflammatory Response via Smad Signaling and MAPK Signaling. 2019 , 21, | 43 |
| 1179 | New sights in cancer: Component and function of N6-methyladenosine modification. 2020 , 122, 109694 | 13 |
| 1178 | METTL3-mediated mA is required for murine oocyte maturation and maternal-to-zygotic transition. 2020 , 19, 391-404 | 31 |
| 1177 | MASS SPECTROMETRY-BASED PERSONALIZED DRUG THERAPY. 2020 , 39, 523-552 | 15 |
| 1176 | Integrative network analysis identifies cell-specific trans regulators of m6A. 2020 , 48, 1715-1729 | 28 |
| 1175 | A Kinase and a Glycosylase Catabolize Pseudouridine in the Peroxisome to Prevent Toxic Pseudouridine Monophosphate Accumulation. 2020 , 32, 722-739 | 8 |
| 1174 | Increased m6A RNA modification is related to the inhibition of the Nrf2-mediated antioxidant response in di-(2-ethylhexyl) phthalate-induced prepubertal testicular injury. 2020 , 259, 113911 | 44 |
| 1173 | Improved RNA modification mapping of cellular non-coding RNAs using C- and U-specific RNases. 2020 , 145, 816-827 | 13 |
| 1172 | Epigenetic Regulation of mA Modifications in Human Cancer. 2020 , 19, 405-412 | 86 |
| 1171 | Mono-(2-Ethylhexyl)phthalate Regulates Cholesterol Efflux via MicroRNAs Regulated mA RNA Methylation. 2020 , 33, 461-469 | 8 |
| 1170 | Changes in m6A RNA methylation contribute to heart failure progression by modulating translation. 2020 , 22, 54-66 | 84 |
| 1169 | Essential Current Concepts in Stem Cell Biology. 2020 , | 0 |
| 1168 | Lewis acid-oxygen vacancy interfacial synergistic catalysis over $\text{SO}_4^{2-}/\text{CeO}_2/\text{ZrO}_2/\text{WO}_3/\text{rGO}$ for N,N-diethylation of aniline with ethanol. 2020 , 38, 1190-1200 | |
| 1167 | YTHDF2 Binds to 5-Methylcytosine in RNA and Modulates the Maturation of Ribosomal RNA. 2020 , 92, 1346-1354 | 21 |

| | | |
|------|---|-----|
| 1166 | YTHDF2 Recognition of N-Methyladenosine (m ^A)-Modified RNA Is Associated with Transcript Destabilization. 2020 , 15, 132-139 | 33 |
| 1165 | Androgen receptor reverses the oncometabolite R-2-hydroxyglutarate-induced prostate cancer cell invasion via suppressing the circRNA-51217/miRNA-646/TGF β /p-Smad2/3 signaling. 2020 , 472, 151-164 | 24 |
| 1164 | High-throughput approaches to profile RNA-protein interactions. 2020 , 54, 37-44 | 19 |
| 1163 | Distinct m ^A methylome profiles in poly(A) RNA from <i>Xenopus laevis</i> testis and that treated with atrazine. 2020 , 245, 125631 | 9 |
| 1162 | IGF2BP2 regulates DANCR by serving as an N ⁶ -methyladenosine reader. 2020 , 27, 1782-1794 | 110 |
| 1161 | The m ^A epitranscriptome: transcriptome plasticity in brain development and function. 2020 , 21, 36-51 | 86 |
| 1160 | The human methyltransferase ZCCHC4 catalyses N ⁶ -methyladenosine modification of 28S ribosomal RNA. 2020 , 48, 830-846 | 38 |
| 1159 | RNA Modifications in Cancer: Functions, Mechanisms, and Therapeutic Implications. 2020 , 4, 221-240 | 30 |
| 1158 | Loss of Endothelial FTO Antagonizes Obesity-Induced Metabolic and Vascular Dysfunction. 2020 , 126, 232-242 | 20 |
| 1157 | METTL14 Suppresses CRC Progression via Regulating N ⁶ -Methyladenosine-Dependent Primary miR-375 Processing. 2020 , 28, 599-612 | 100 |
| 1156 | Chronic corticosterone exposure induces liver inflammation and fibrosis in association with m ^A -linked post-transcriptional suppression of heat shock proteins in chicken. 2020 , 25, 47-56 | 8 |
| 1155 | Epitranscriptomic profiling in human placenta: N ⁶ -methyladenosine modification at the 5'-untranslated region is related to fetal growth and preeclampsia. 2020 , 34, 494-512 | 8 |
| 1154 | One-carbon metabolism for cancer diagnostic and therapeutic approaches. 2020 , 470, 141-148 | 9 |
| 1153 | Altered m ^A Modification of Specific Cellular Transcripts Affects Flaviviridae Infection. 2020 , 77, 542-555.e8 | 66 |
| 1152 | The Biogenesis and Precise Control of RNA m ^A Methylation. 2020 , 36, 44-52 | 91 |
| 1151 | m ^A RNA modification modulates gene expression and cancer-related pathways in clear cell renal cell carcinoma. 2020 , 12, 87-99 | 22 |
| 1150 | An Emerging Role for isomiRs and the microRNA Epitranscriptome in Neovascularization. 2019 , 9, | 16 |
| 1149 | Epigenetic Modifications of mRNA and DNA in Plants. 2020 , 13, 14-30 | 40 |

| | | |
|------|--|----|
| 1148 | HydraPsiSeq: a method for systematic and quantitative mapping of pseudouridines in RNA. 2020 , 48, e110 | 27 |
| 1147 | m A RNA methyltransferases METTL3/14 regulate immune responses to anti-PD-1 therapy. 2020 , 39, e104514 | 89 |
| 1146 | The Potential Roles of RNA N6-Methyladenosine in Urological Tumors. 2020 , 8, 579919 | 11 |
| 1145 | Early Life Stress Induced DNA Methylation of Monoamine Oxidases Leads to Depressive-Like Behavior. 2020 , 8, 582247 | 11 |
| 1144 | Landscape of N-Methyladenosine Modification Patterns in Human Ameloblastoma. 2020 , 10, 556497 | 9 |
| 1143 | Fluorescein-based monitoring of RNA N6-methyladenosine at single-nucleotide resolution. 2021 , 13, 325-328 | |
| 1142 | PCB126 Exposure Revealed Alterations in m6A RNA Modifications in Transcripts Associated With AHR Activation. 2021 , 179, 84-94 | 4 |
| 1141 | Advances in the role of mA RNA modification in cancer metabolic reprogramming. 2020 , 10, 117 | 5 |
| 1140 | Unique and Specific mA RNA Methylation in Mouse Embryonic and Postnatal Cerebral Cortices. 2020 , 11, | 2 |
| 1139 | An Emerging Role of m6A in Memory: A Case for Translational Priming. 2020 , 21, | 9 |
| 1138 | Prognostic Value of YTHDF2 in Clear Cell Renal Cell Carcinoma. 2020 , 10, 1566 | 2 |
| 1137 | Hepatic FTO is dispensable for the regulation of metabolism but counteracts HCC development <i>in vivo</i> . 2020 , 42, 101085 | 18 |
| 1136 | New Insights on the Role of -Methyladenosine RNA Methylation in the Physiology and Pathology of the Nervous System. 2020 , 7, 555372 | 10 |
| 1135 | mA RNA Methylation in Cardiovascular Diseases. 2020 , 28, 2111-2119 | 25 |
| 1134 | Distinct RNA demethylation pathways catalyzed by nonheme iron ALKBH5 and FTO enzymes enable regulation of formaldehyde release rates. 2020 , 117, 25284-25292 | 13 |
| 1133 | Joint analysis of lncRNA mA methylome and lncRNA/mRNA expression profiles in gastric cancer. 2020 , 20, 464 | 11 |
| 1132 | Multifaceted Functions and Novel Insight Into the Regulatory Role of RNA N-Methyladenosine Modification in Musculoskeletal Disorders. 2020 , 8, 870 | 15 |
| 1131 | Progress and trends on the analysis of nucleic acid and its modification. 2020 , 191, 113589 | 2 |

| | | |
|------|--|----|
| 1130 | Structural and Dynamic Insights into Redundant Function of YTHDF Proteins. 2020 , 60, 5932-5935 | 5 |
| 1129 | The Role of N6-Methyladenosine Methylation in the Progression of Endometrial Cancer. 2020 , | 3 |
| 1128 | The epitranscriptome in stem cell biology and neural development. 2020 , 146, 105139 | 10 |
| 1127 | METTL3 counteracts premature aging via m6A-dependent stabilization of MIS12 mRNA. 2020 , 48, 11083-11096 | 32 |
| 1126 | The critical roles of m6A modification in metabolic abnormality and cardiovascular diseases. 2021 , 8, 746-758 | 7 |
| 1125 | N -methyladenosine (m A) RNA modification in human cancer. 2020 , 53, e12921 | 13 |
| 1124 | im6A-TS-CNN: Identifying the N-Methyladenine Site in Multiple Tissues by Using the Convolutional Neural Network. 2020 , 21, 1044-1049 | 16 |
| 1123 | Structural determinants of nucleobase modification recognition in the AlkB family of dioxygenases. 2020 , 96, 102995 | 2 |
| 1122 | RNA N-Methyladenosine and the Regulation of RNA Localization and Function in the Brain. 2020 , 43, 1011-1023 | 15 |
| 1121 | Comparative epigenetics in animal physiology: An emerging frontier. 2020 , 36, 100745 | 3 |
| 1120 | The Mammalian Cap-Specific mAm RNA Methyltransferase PCIF1 Regulates Transcript Levels in Mouse Tissues. 2020 , 32, 108038 | 25 |
| 1119 | REW-ISA: unveiling local functional blocks in epi-transcriptome profiling data via an RNA expression-weighted iterative signature algorithm. 2020 , 21, 447 | 4 |
| 1118 | Expression, Regulation and Function of microRNA as Important Players in the Transition of MDS to Secondary AML and Their Cross Talk to RNA-Binding Proteins. 2020 , 21, | 6 |
| 1117 | From start to end: Phase separation and transcriptional regulation. 2020 , 1863, 194641 | 24 |
| 1116 | N6-methyladenosine RNA modification in cancer therapeutic resistance: Current status and perspectives. 2020 , 182, 114258 | 18 |
| 1115 | Plant Immune Mechanisms: From Reductionistic to Holistic Points of View. 2020 , 13, 1358-1378 | 30 |
| 1114 | Endogenous testosterone is associated with increased striatal response to audience effects during prosocial choices. 2020 , 122, 104872 | 3 |
| 1113 | A CNN-Based RNA N6-Methyladenosine Site Predictor for Multiple Species Using Heterogeneous Features Representation. 2020 , 8, 138203-138209 | 26 |

| | | |
|------|---|----|
| 1112 | The mA Methylation-Regulated AFF4 Promotes Self-Renewal of Bladder Cancer Stem Cells. 2020 , 2020, 8849218 | 18 |
| 1111 | mA modification-mediated BATF2 acts as a tumor suppressor in gastric cancer through inhibition of ERK signaling. 2020 , 19, 114 | 28 |
| 1110 | Validation strategies for antibodies targeting modified ribonucleotides. 2020 , 26, 1489-1506 | 8 |
| 1109 | Epigenetic role of N6-methyladenosine (m6A) RNA methylation in the cardiovascular system. 2020 , 21, 509-523 | 9 |
| 1108 | Structural and Virus Regulatory Insights Into Avian N6-Methyladenosine (m6A) Machinery. 2020 , 8, 543 | 5 |
| 1107 | Gene Signature and Identification of Clinical Trait-Related m A Regulators in Pancreatic Cancer. 2020 , 11, 522 | 18 |
| 1106 | Codon Usage and Splicing Jointly Influence mRNA Localization. 2020 , 10, 351-362.e8 | 29 |
| 1105 | Reversible N6-methyladenosine of RNA: The regulatory mechanisms on gene expression and implications in physiology and pathology. 2020 , 7, 585-597 | 8 |
| 1104 | METTL3 promotes the proliferation and invasion of esophageal cancer cells partly through AKT signaling pathway. 2020 , 216, 153087 | 10 |
| 1103 | Bioinformatics approaches for deciphering the epitranscriptome: Recent progress and emerging topics. 2020 , 18, 1587-1604 | 18 |
| 1102 | Environmental epitranscriptomics. 2020 , 189, 109885 | 9 |
| 1101 | RNA in DNA repair. 2020 , 95, 102927 | 3 |
| 1100 | UPF1-Mediated RNA Decay-Danse Macabre in a Cloud. 2020 , 10, | 11 |
| 1099 | EndoVIPER-seq for Improved Detection of A-to-I Editing Sites in Cellular RNA. 2020 , 12, e82 | 6 |
| 1098 | N6-methyladenine modification in noncoding RNAs and its function in cancer. 2020 , 8, 61 | 12 |
| 1097 | Circular RNA, the Key for Translation. 2020 , 21, | 27 |
| 1096 | N6-methyladenosine methyltransferase plays a role in hypoxic preconditioning partially through the interaction with lncRNA H19. 2020 , 52, 1306-1315 | 4 |
| 1095 | RNA-binding protein RALY reprogrammes mitochondrial metabolism via mediating miRNA processing in colorectal cancer. 2021 , 70, 1698-1712 | 21 |

| | | |
|------|--|----|
| 1094 | N-Adenosine Methylation of Socs1 mRNA Is Required to Sustain the Negative Feedback Control of Macrophage Activation. 2020 , 55, 737-753.e7 | 14 |
| 1093 | RNA methylations in human cancers. 2021 , 75, 97-115 | 21 |
| 1092 | Dynamic analysis of m6A methylation spectroscopy during progression and reversal of hepatic fibrosis. 2020 , 12, 1707-1723 | 5 |
| 1091 | Epitranscriptomic(N6-methyladenosine) Modification of Viral RNA and Virus-Host Interactions. 2020 , 10, 584283 | 16 |
| 1090 | Integrated Analysis of m6A Methylome in Cisplatin-Induced Acute Kidney Injury and Berberine Alleviation in Mouse. 2020 , 11, 584460 | 7 |
| 1089 | The epigenetics of pluripotent stem cells. 2020 , 25-74 | |
| 1088 | Unorthodox Mechanisms to Initiate Translation Open Novel Paths for Gene Expression. 2020 , 432, 166702 | 2 |
| 1087 | Emerging roles of N6-methyladenosine (mA) modification in breast cancer. 2020 , 10, 136 | 11 |
| 1086 | Advances in the profiling of N-methyladenosine (mA) modifications. 2020 , 45, 107656 | 18 |
| 1085 | Emerging role of N4-acetylcytidine modification of RNA in gene regulation and cellular functions. 2020 , 47, 9189-9199 | 7 |
| 1084 | Stabilization of ERK-Phosphorylated METTL3 by USP5 Increases mA Methylation. 2020 , 80, 633-647.e7 | 21 |
| 1083 | N-Methyladenosine co-transcriptionally directs the demethylation of histone H3K9me2. 2020 , 52, 870-877 | 57 |
| 1082 | Identification and Characterization of N6-Methyladenosine CircRNAs and Methyltransferases in the Lens Epithelium Cells From Age-Related Cataract. 2020 , 61, 13 | 13 |
| 1081 | Novel insights into the interplay between mA modification and noncoding RNAs in cancer. 2020 , 19, 121 | 71 |
| 1080 | Upregulation of METTL3 Expression Predicts Poor Prognosis in Patients with Esophageal Squamous Cell Carcinoma. 2020 , 12, 5729-5737 | 11 |
| 1079 | "Circ-it" for Stress: Role of a Novel Circular RNA in Hippocampal Astrocyte Function and Behavior. 2020 , 88, 362-364 | |
| 1078 | The RNA Methyltransferase NSUN2 and Its Potential Roles in Cancer. 2020 , 9, | 40 |
| 1077 | Integrative Genomic Analysis Predicts Regulatory Role of -Methyladenosine-Associated SNPs for Adiposity. 2020 , 8, 551 | 3 |

| | | |
|------|--|-----|
| 1076 | Critical Roles of -Methyladenosine (mA) in Cancer and Virus Infection. 2020 , 10, | 9 |
| 1075 | YTHDC1 gene polymorphisms and hepatoblastoma susceptibility in Chinese children: A seven-center case-control study. 2020 , 22, e3249 | 10 |
| 1074 | Genetic Alterations and Transcriptional Expression of mA RNA Methylation Regulators Drive a Malignant Phenotype and Have Clinical Prognostic Impact in Hepatocellular Carcinoma. 2020 , 10, 900 | 3 |
| 1073 | Control of Early B Cell Development by the RNA N-Methyladenosine Methylation. 2020 , 31, 107819 | 25 |
| 1072 | Reshaping the role of m6A modification in cancer transcriptome: a review. 2020 , 20, 353 | 21 |
| 1071 | Reduced Expression of Promotes Metastasis of Triple-Negative Breast Cancer by m6A Methylation-Mediated Up-Regulation. 2020 , 10, 1126 | 38 |
| 1070 | Synthesis of Triazole-Linked SAM-Adenosine Conjugates: Functionalization of Adenosine at N-1 or N-6 Position without Protecting Groups. 2020 , 25, | 2 |
| 1069 | Profiling of circular RNA N -methyladenosine in moso bamboo (<i>Phyllostachys edulis</i>) using nanopore-based direct RNA sequencing. 2020 , 62, 1823-1838 | 14 |
| 1068 | mA Reader YTHDC2 Promotes Radiotherapy Resistance of Nasopharyngeal Carcinoma via Activating IGF1R/AKT/S6 Signaling Axis. 2020 , 10, 1166 | 24 |
| 1067 | ALKBH5 regulates anti-PD-1 therapy response by modulating lactate and suppressive immune cell accumulation in tumor microenvironment. 2020 , 117, 20159-20170 | 123 |
| 1066 | Prediction of RNA Methylation Status From Gene Expression Data Using Classification and Regression Methods. 2020 , 16, 1176934320915707 | 2 |
| 1065 | METTL14 aggravates endothelial inflammation and atherosclerosis by increasing FOXO1 N6-methyladeosine modifications. 2020 , 10, 8939-8956 | 48 |
| 1064 | Epigenetic Regulation of Endothelial Cell Function by Nucleic Acid Methylation in Cardiac Homeostasis and Disease. 2021 , 35, 1025-1044 | 2 |
| 1063 | NADP modulates RNA mA methylation and adipogenesis via enhancing FTO activity. 2020 , 16, 1394-1402 | 27 |
| 1062 | A novel N6-methyladenosine (m6A)-dependent fate decision for the lncRNA THOR. 2020 , 11, 613 | 39 |
| 1061 | Sex-Dependent RNA Editing and -adenosine RNA Methylation Profiling in the Gonads of a Fish, the Olive Flounder (). 2020 , 8, 751 | 5 |
| 1060 | Roles of N6-Methyladenosine (mA) in Stem Cell Fate Decisions and Early Embryonic Development in Mammals. 2020 , 8, 782 | 23 |
| 1059 | mRNA adenosine methylase (MTA) deposits mA on pri-miRNAs to modulate miRNA biogenesis in. 2020 , 117, 21785-21795 | 30 |

| | | |
|------|---|----|
| 1058 | Insight into mA methylation from occurrence to functions. 2020 , 10, 200091 | 7 |
| 1057 | From 1957 to Nowadays: A Brief History of Epigenetics. 2020 , 21, | 17 |
| 1056 | NSun2 promotes cell migration through methylating autotaxin mRNA. 2020 , 295, 18134-18147 | 10 |
| 1055 | 2'-O-Methylation can increase the abundance and lifetime of alternative RNA conformational states. 2020 , 48, 12365-12379 | 20 |
| 1054 | Comprehensive analysis of transcriptome-wide mA methylome in the anterior capsule of the lens of high myopia patients. 2021 , 16, 955-968 | 4 |
| 1053 | YTHDF3 Induces the Translation of mA-Enriched Gene Transcripts to Promote Breast Cancer Brain Metastasis. 2020 , 38, 857-871.e7 | 70 |
| 1052 | N6-methyladenosine RNA methylation regulators participate in malignant progression and have prognostic value in clear cell renal cell carcinoma. 2020 , 43, 1591-1605 | 8 |
| 1051 | To Develop and Validate the Combination of RNA Methylation Regulators for the Prognosis of Patients with Gastric Cancer. 2020 , 13, 10785-10795 | 7 |
| 1050 | Longitudinal epitranscriptome profiling reveals the crucial role of N-methyladenosine methylation in porcine prenatal skeletal muscle development. 2020 , 47, 466-476 | 15 |
| 1049 | Roles of N -methyladenosine (m A) RNA modifications in urological cancers. 2020 , 24, 10302-10310 | 6 |
| 1048 | Transcriptome-Wide -Methyladenosine (mA) Methylome Profiling of Heat Stress in Pak-choi (ssp.). 2020 , 9, | 9 |
| 1047 | mA RNA modification modulates PI3K/Akt/mTOR signal pathway in Gastrointestinal Cancer. 2020 , 10, 9528-9543 | 25 |
| 1046 | Altered m A modification is involved in up-regulated expression of FOXO3 in luteinized granulosa cells of non-obese polycystic ovary syndrome patients. 2020 , 24, 11874-11882 | 10 |
| 1045 | METTL3 regulates m6A in endometrioid epithelial ovarian cancer independently of METTL14 and WTAP. 2020 , 44, 2524-2531 | 19 |
| 1044 | m6A RNA methylation regulators could contribute to the occurrence of chronic obstructive pulmonary disease. 2020 , 24, 12706-12715 | 17 |
| 1043 | -methyladenosine (mA) RNA methylation signature as a predictor of stomach adenocarcinoma outcomes and its association with immune checkpoint molecules. 2020 , 48, 300060520951405 | 9 |
| 1042 | YTHDF2/3 Are Required for Somatic Reprogramming through Different RNA Deadenylation Pathways. 2020 , 32, 108120 | 19 |
| 1041 | Epitranscriptomic regulation by mA RNA methylation in brain development and diseases. 2020 , 40, 2331-2349 | 18 |

| | | |
|------|---|----|
| 1040 | m6A modification in RNA: biogenesis, functions and roles in gliomas. 2020 , 39, 192 | 30 |
| 1039 | Prognosis Analysis and Validation of mA Signature and Tumor Immune Microenvironment in Glioma. 2020 , 10, 541401 | 22 |
| 1038 | The role of RNA epigenetic modification in normal and malignant hematopoiesis. 2020 , 6, 144-155 | 5 |
| 1037 | On the Way to Understanding the Interplay between the RNA Structure and Functions in Cells: A Genome-Wide Perspective. 2020 , 21, | 5 |
| 1036 | Upregulation of METTL14 mediates the elevation of PERP mRNA N adenosine methylation promoting the growth and metastasis of pancreatic cancer. 2020 , 19, 130 | 62 |
| 1035 | The FTO/miR-181b-3p/ARL5B signaling pathway regulates cell migration and invasion in breast cancer. 2020 , 40, 484-500 | 33 |
| 1034 | m6A RNA Methylation: Ramifications for Gene Expression and Human Health. 2020 , 62, 467-484 | 19 |
| 1033 | METTL3 potentiates resistance to cisplatin through m A modification of TFAP2C in seminoma. 2020 , 24, 11366-11380 | 19 |
| 1032 | Roles of METTL3 in cancer: mechanisms and therapeutic targeting. 2020 , 13, 117 | 64 |
| 1031 | mA Reader: Epitranscriptome Target Prediction and Functional Characterization of -Methyladenosine (mA) Readers. 2020 , 8, 741 | 8 |
| 1030 | TRADES: Targeted RNA Demethylation by SunTag System. 2020 , 7, 2001402 | 15 |
| 1029 | Environmental exposures and RNA N6-Methyladenosine modified long Non-Coding RNAs. 2020 , 50, 641-649 | |
| 1028 | It's the Little Things (in Viral RNA). 2020 , 11, | 4 |
| 1027 | From canonical to modified nucleotides: balancing translation and metabolism. 2020 , 55, 525-540 | 3 |
| 1026 | Advances in RNA cytosine-5 methylation: detection, regulatory mechanisms, biological functions and links to cancer. 2020 , 8, 43 | 29 |
| 1025 | Sestrin2 Expression Has Regulatory Properties and Prognostic Value in Lung Cancer. 2020 , 10, | 7 |
| 1024 | Characterization of m6A in mouse ovary and testis. 2020 , 10, e141 | 4 |
| 1023 | Epitranscriptomics and epiproteomics in cancer drug resistance: therapeutic implications. 2020 , 5, 193 | 27 |

| | | |
|------|--|----|
| 1022 | Novel Insights into Adipogenesis from the Perspective of Transcriptional and RNA N6-Methyladenosine-Mediated Post-Transcriptional Regulation. 2020 , 7, 2001563 | 6 |
| 1021 | Hypoxia induces an endometrial cancer stem-like cell phenotype via HIF-dependent demethylation of SOX2 mRNA. 2020 , 9, 81 | 15 |
| 1020 | Epitranscriptomics in the Heart: a Focus on mA. 2020 , 17, 205-212 | 5 |
| 1019 | Identification of pathology-specific regulators of mA RNA modification to optimize lung cancer management in the context of predictive, preventive, and personalized medicine. 2020 , 11, 485-504 | 22 |
| 1018 | METTL4 catalyzes m6Am methylation in U2 snRNA to regulate pre-mRNA splicing. 2020 , 48, 9250-9261 | 26 |
| 1017 | Propofol-induced MiR-20b expression initiates endogenous cellular signal changes mitigating hypoxia/re-oxygenation-induced endothelial autophagy in vitro. 2020 , 11, 681 | 6 |
| 1016 | Identifying cortical specific long noncoding RNAs modified by mA RNA methylation in mouse brains. 2021 , 16, 1260-1276 | 4 |
| 1015 | Emerging roles of RNA methylation in gastrointestinal cancers. 2020 , 20, 585 | 18 |
| 1014 | Editorial: Computational Epitranscriptomics: Bioinformatic Approaches for the Analysis of RNA Modifications. 2020 , 11, 630360 | |
| 1013 | Expression and Prognostic Characteristics of m A RNA Methylation Regulators in Breast Cancer. 2020 , 11, 604597 | 15 |
| 1012 | Deaminase-Independent Mode of Antiretroviral Action in Human and Mouse APOBEC3 Proteins. 2020 , 8, | 3 |
| 1011 | Long non-coding RNA NEAT1 promotes bone metastasis of prostate cancer through N6-methyladenosine. 2020 , 19, 171 | 65 |
| 1010 | Gene Signatures and Prognostic Values of m6A Regulators in Hepatocellular Carcinoma. 2020 , 11, 540186 | 20 |
| 1009 | Detecting N6-methyladenosine sites from RNA transcriptomes using random forest. 2020 , 47, 101238 | 1 |
| 1008 | Transcriptome-Wide mA Methylation in Skin Lesions From Patients With Psoriasis Vulgaris. 2020 , 8, 591629 | 9 |
| 1007 | The N6-Methyladenosine Features of mRNA and Aberrant Expression of m6A Modified Genes in Gastric Cancer and Their Potential Impact on the Risk and Prognosis. 2020 , 11, 561566 | 5 |
| 1006 | meCLICK-Seq, a Substrate-Hijacking and RNA Degradation Strategy for the Study of RNA Methylation. 2020 , 6, 2196-2208 | 17 |
| 1005 | Molecular characterization, biological function, tumor microenvironment association and clinical significance of m6A regulators in lung adenocarcinoma. 2021 , 22, | 40 |

| | | |
|------|--|-----|
| 1004 | RNA mA Modification in Cancers: Molecular Mechanisms and Potential Clinical Applications. 2020 , 1, 100066 | 42 |
| 1003 | Targeted mRNA demethylation using an engineered dCas13b-ALKBH5 fusion protein. 2020 , 48, 5684-5694 | 64 |
| 1002 | 5-methylcytosine modification of an Epstein-Barr virus noncoding RNA decreases its stability. 2020 , 26, 1038-1048 | 9 |
| 1001 | RNA-biology ruling cancer progression? Focus on 3'UTRs and splicing. 2020 , 39, 887-901 | 2 |
| 1000 | mA Editing: New Tool to Improve Crop Quality?. 2020 , 25, 859-867 | 9 |
| 999 | Functional Implications of Active N-Methyladenosine in Plants. 2020 , 8, 291 | 12 |
| 998 | Direct Sequencing of tRNA by 2D-HELIX-AA MS Seq Reveals Its Different Isoforms and Dynamic Base Modifications. 2020 , 15, 1464-1472 | 9 |
| 997 | Melatonin restores the pluripotency of long-term-cultured embryonic stem cells through melatonin receptor-dependent m6A RNA regulation. 2020 , 69, e12669 | 16 |
| 996 | A Roadmap for Fixing the Heart: RNA Regulatory Networks in Cardiac Disease. 2020 , 20, 673-686 | 9 |
| 995 | Direct RNA Sequencing for the Study of Synthesis, Processing, and Degradation of Modified Transcripts. 2020 , 11, 394 | 9 |
| 994 | RNA demethylase ALKBH5 prevents pancreatic cancer progression by posttranscriptional activation of PER1 in an m6A-YTHDF2-dependent manner. 2020 , 19, 91 | 99 |
| 993 | The 18S ribosomal RNA m A methyltransferase Mettl5 is required for normal walking behavior in Drosophila. 2020 , 21, e49443 | 27 |
| 992 | RNA modifications in brain tumorigenesis. 2020 , 8, 64 | 9 |
| 991 | The potential role of RNA N6-methyladenosine in Cancer progression. 2020 , 19, 88 | 161 |
| 990 | mA RNA methylation regulators have prognostic value in papillary thyroid carcinoma. 2020 , 41, 102547 | 17 |
| 989 | Methylated RNA Immunoprecipitation Assay to Study m5C Modification in Arabidopsis. 2020 , | 4 |
| 988 | N-Methyladenosine Demethylase FTO Contributes to Neuropathic Pain by Stabilizing G9a Expression in Primary Sensory Neurons. 2020 , 7, 1902402 | 28 |
| 987 | Classification and function of RNA-protein interactions. 2020 , 11, e1601 | 11 |

| | | |
|-----|---|----|
| 986 | iMethyl-Deep: N6 Methyladenosine Identification of Yeast Genome with Automatic Feature Extraction Technique by Using Deep Learning Algorithm. 2020 , 11, | 14 |
| 985 | Diagnostic, progressive and prognostic performance of mA methylation RNA regulators in lung adenocarcinoma. 2020 , 16, 1785-1797 | 31 |
| 984 | Function and evolution of RNA N6-methyladenosine modification. 2020 , 16, 1929-1940 | 34 |
| 983 | A m A Sensing Method by Its Impact on the Stability of RNA Double Helix. 2020 , 17, e2000050 | 1 |
| 982 | Dynamic landscape and evolution of m6A methylation in human. 2020 , 48, 6251-6264 | 55 |
| 981 | Leukemogenic Chromatin Alterations Promote AML Leukemia Stem Cells via a KDM4C-ALKBH5-AXL Signaling Axis. 2020 , 27, 81-97.e8 | 58 |
| 980 | Diverse molecular functions of mA mRNA modification in cancer. 2020 , 52, 738-749 | 22 |
| 979 | RNA Demethylase ALKBH5 Selectively Promotes Tumorigenesis and Cancer Stem Cell Self-Renewal in Acute Myeloid Leukemia. 2020 , 27, 64-80.e9 | 88 |
| 978 | Identification and functional annotation of m6A methylation modification in granulosa cells during antral follicle development in pigs. 2020 , 219, 106510 | 5 |
| 977 | Critical roles of mRNA mA modification and YTHDC2 expression for meiotic initiation and progression in female germ cells. 2020 , 753, 144810 | 6 |
| 976 | Heterogeneity in mRNA Translation. 2020 , 30, 606-618 | 21 |
| 975 | The N-Methyladenosine Methylome of Petunia mRNA. 2020 , 183, 1710-1724 | 8 |
| 974 | Epigenetic and epitranscriptomic regulation of viral replication. 2020 , 18, 559-570 | 37 |
| 973 | The role of N-methyladenosine (mA) modification in the regulation of circRNAs. 2020 , 19, 105 | 79 |
| 972 | RNA N-6-methyladenosine enzymes and resistance of cancer cells to chemotherapy and radiotherapy. 2020 , 12, 801-809 | 17 |
| 971 | N6-methyladenosine regulates PEDV replication and host gene expression. 2020 , 548, 59-72 | 8 |
| 970 | Emerging of lysine demethylases (KDMs): From pathophysiological insights to novel therapeutic opportunities. 2020 , 129, 110392 | 9 |
| 969 | LNC942 promoting METTL14-mediated mA methylation in breast cancer cell proliferation and progression. 2020 , 39, 5358-5372 | 67 |

| | | |
|-----|--|----|
| 968 | Mechanisms of RNA N-Methyladenosine in Hepatocellular Carcinoma: From the Perspectives of Etiology. 2020 , 10, 1105 | 11 |
| 967 | The Function of lncRNAs as Epigenetic Regulators. 2020 , | 1 |
| 966 | Prediction of N6-methyladenosine sites using convolution neural network model based on distributed feature representations. 2020 , 129, 385-391 | 14 |
| 965 | Predicting sites of epitranscriptome modifications using unsupervised representation learning based on generative adversarial networks. 2020 , 8, | 6 |
| 964 | Gene Architecture and Sequence Composition Underpin Selective Dependency of Nuclear Export of Long RNAs on NXF1 and the TREX Complex. 2020 , 79, 251-267.e6 | 32 |
| 963 | How Do You Identify m A Methylation in Transcriptomes at High Resolution? A Comparison of Recent Datasets. 2020 , 11, 398 | 9 |
| 962 | Deoxycholic acid modulates the progression of gallbladder cancer through N-methyladenosine-dependent microRNA maturation. 2020 , 39, 4983-5000 | 17 |
| 961 | Mechanism of RNA modification N6-methyladenosine in human cancer. 2020 , 19, 104 | 80 |
| 960 | LITHOPHONE: Improving lncRNA Methylation Site Prediction Using an Ensemble Predictor. 2020 , 11, 545 | 8 |
| 959 | FTO regulates ocular angiogenesis via mA-YTHDF2-dependent mechanism. 2020 , 197, 108107 | 9 |
| 958 | A Novel Micropeptide Encoded by Y-Linked LINC00278 Links Cigarette Smoking and AR Signaling in Male Esophageal Squamous Cell Carcinoma. 2020 , 80, 2790-2803 | 36 |
| 957 | MoAIMS: efficient software for detection of enriched regions of MeRIP-Seq. 2020 , 21, 103 | 7 |
| 956 | YTHDF2 destabilizes mA-modified neural-specific RNAs to restrain differentiation in induced pluripotent stem cells. 2020 , 26, 739-755 | 15 |
| 955 | microRNA-670 modulates Igf2bp1 expression to regulate RNA methylation in parthenogenetic mouse embryonic development. 2020 , 10, 4782 | 7 |
| 954 | Integration Analysis of mA-SNPs and eQTLs Associated With Sepsis Reveals Platelet Degranulation and Infection are Mediated by mA mRNA Methylation. 2020 , 11, 7 | 9 |
| 953 | The functions of N6-methyladenosine modification in lncRNAs. 2020 , 7, 598-605 | 30 |
| 952 | m6A mRNA Modification as a New Layer of Gene Regulation in Plants. 2020 , 63, 97-106 | 9 |
| 951 | Epitranscriptomic technologies and analyses. 2020 , 63, 501-515 | 4 |

| | | |
|-----|--|-----|
| 950 | The roles of m6A RNA modifiers in human cancer. 2020 , 83, 221-226 | 22 |
| 949 | A fluorescent nanobiosensor for the facile analysis of mA RNA demethylase activity. 2020 , 56, 4716-4719 | 3 |
| 948 | mA Modification in Coding and Non-coding RNAs: Roles and Therapeutic Implications in Cancer. 2020 , 37, 270-288 | 275 |
| 947 | The emerging role of RNA modifications in the regulation of mRNA stability. 2020 , 52, 400-408 | 90 |
| 946 | Epigenetic modulations of noncoding RNA: a novel dimension of Cancer biology. 2020 , 19, 64 | 42 |
| 945 | Malignant Evaluation and Clinical Prognostic Values of m6A RNA Methylation Regulators in Glioblastoma. 2020 , 10, 208 | 24 |
| 944 | Expression Status And Prognostic Value Of M6A-associated Genes in Gastric Cancer. 2020 , 11, 3027-3040 | 40 |
| 943 | Role of mA in Embryonic Stem Cell Differentiation and in Gametogenesis.. 2020 , 4, | 8 |
| 942 | Deciphering N-Methyladenosine-Related Genes Signature to Predict Survival in Lung Adenocarcinoma. 2020 , 2020, 2514230 | 18 |
| 941 | Impact of the gut microbiota on the mA epitranscriptome of mouse cecum and liver. 2020 , 11, 1344 | 32 |
| 940 | Multiple mA RNA methylation modulators promote the malignant progression of hepatocellular carcinoma and affect its clinical prognosis. 2020 , 20, 165 | 27 |
| 939 | METTL3 Modulates Osteoclast Differentiation and Function by Controlling RNA Stability and Nuclear Export. 2020 , 21, | 23 |
| 938 | METTL3/YTHDF2 m A axis promotes tumorigenesis by degrading SETD7 and KLF4 mRNAs in bladder cancer. 2020 , 24, 4092-4104 | 55 |
| 937 | Programmable mA modification of cellular RNAs with a Cas13-directed methyltransferase. 2020 , 38, 1431-1440 | 66 |
| 936 | Genetic analyses support the contribution of mRNA N-methyladenosine (mA) modification to human disease heritability. 2020 , 52, 939-949 | 52 |
| 935 | Posttranscriptional and translational control of neurogenesis. 2020 , 731-750 | 1 |
| 934 | METTL3 and N6-Methyladenosine Promote Homologous Recombination-Mediated Repair of DSBs by Modulating DNA-RNA Hybrid Accumulation. 2020 , 79, 425-442.e7 | 71 |
| 933 | The emerging roles of N6-methyladenosine RNA methylation in human cancers. 2020 , 8, 24 | 13 |

| | | |
|-----|---|-----|
| 932 | Transcriptional and Epigenetic Regulation of Krüppel-Like Transcription Factors. 2020, | 2 |
| 931 | Homogeneous cobalt-catalyzed deoxygenative hydrogenation of amides to amines. 2020, 10, 6116-6128 | 8 |
| 930 | Nutrient Control of mRNA Translation. 2020, 40, 51-75 | 5 |
| 929 | A Census and Categorization Method of Epitranscriptomic Marks. 2020, 21, | 15 |
| 928 | Overview of distinct 5-methylcytosine profiles of messenger RNA in human hepatocellular carcinoma and paired adjacent non-tumor tissues. 2020, 18, 245 | 16 |
| 927 | RUNX1T1 rs34269950 is associated with obesity and metabolic syndrome. 2021, 114, 553-558 | 2 |
| 926 | Direct full-length RNA sequencing reveals unexpected transcriptome complexity during development. 2020, 30, 287-298 | 20 |
| 925 | The epigenetic face of lupus: Focus on antigen-presenting cells. 2020, 81, 106262 | 9 |
| 924 | Bone-derived mesenchymal stem cells alleviate compression-induced apoptosis of nucleus pulposus cells by N6-methyladenosine of autophagy. 2020, 11, 103 | 15 |
| 923 | Dexmedetomidine Postconditioning Alleviates Hypoxia/Reoxygenation Injury in Senescent Myocardial Cells by Regulating lncRNA H19 and m6A Modification. 2020, 2020, 1-13 | 4 |
| 922 | Opportunities and challenges in long-read sequencing data analysis. 2020, 21, 30 | 431 |
| 921 | N-Adenosine Methylation in RNA and a Reduced mG/TMG Level in Non-Coding RNAs Appear at Microirradiation-Induced DNA Lesions. 2020, 9, | 16 |
| 920 | Dynamic N6-methyladenosine RNA methylation in brain and diseases. 2020, 12, 371-380 | 6 |
| 919 | RNA 6-methyladenosine: a promising molecular target in metabolic diseases. 2020, 10, 19 | 12 |
| 918 | Dysregulations of Functional RNA Modifications in Cancer, Cancer Stemness and Cancer Therapeutics. 2020, 10, 3164-3189 | 16 |
| 917 | mRNA modification orchestrates cancer stem cell fate decisions. 2020, 19, 38 | 16 |
| 916 | Holistic Optimization of Bioinformatic Analysis Pipeline for Detection and Quantification of 2'-O-Methylations in RNA by RiboMethSeq. 2020, 11, 38 | 12 |
| 915 | Interferon-stimulated gene 20 (ISG20) selectively degrades N6-methyladenosine modified Hepatitis B Virus transcripts. 2020, 16, e1008338 | 42 |

| | | |
|-----|---|-----|
| 914 | Deep analysis of RNA N-adenosine methylation (mA) patterns in human cells. 2020 , 2, lqaa007 | 5 |
| 913 | The emerging roles of N6-methyladenosine (m6A) deregulation in liver carcinogenesis. 2020 , 19, 44 | 94 |
| 912 | METTL14 suppresses proliferation and metastasis of colorectal cancer by down-regulating oncogenic long non-coding RNA XIST. 2020 , 19, 46 | 153 |
| 911 | Direct microRNA Sequencing Using Nanopore-Induced Phase-Shift Sequencing. 2020 , 23, 100916 | 12 |
| 910 | m6A Methylation Analysis of Differentially Expressed Genes in Skin Tissues of Coarse and Fine Type Liaoning Cashmere Goats. 2019 , 10, 1318 | 19 |
| 909 | Level of N6-Methyladenosine in Peripheral Blood RNA: A Novel Predictive Biomarker for Gastric Cancer. 2020 , 66, 342-351 | 25 |
| 908 | HIV protease cleaves the antiviral m6A reader protein YTHDF3 in the viral particle. 2020 , 16, e1008305 | 25 |
| 907 | Contributions and prognostic values of m A RNA methylation regulators in non-small-cell lung cancer. 2020 , 235, 6043-6057 | 26 |
| 906 | Invited Review: Epigenetics in neurodevelopment. 2020 , 46, 6-27 | 7 |
| 905 | A Review of 1-Regulated Metabolic Diseases and Related Drug Discoveries. 2020 , 9, | 37 |
| 904 | The structure of the McrB N-terminal domain reveals a new mode of substrate recognition and specificity among McrB homologs. 2020 , 295, 743-756 | 6 |
| 903 | The roles of TET family proteins in development and stem cells. 2020 , 147, | 16 |
| 902 | Molecular Mechanisms Driving mRNA Degradation by mA Modification. 2020 , 36, 177-188 | 106 |
| 901 | DDX3 modulates cisplatin resistance in OSCC through ALKBH5-mediated mA-demethylation of FOXM1 and NANOG. 2020 , 25, 233-246 | 47 |
| 900 | -methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. 2020 , 367, 580-586 | 185 |
| 899 | RNA N-methyladenosine modification in solid tumors: new therapeutic frontiers. 2020 , 27, 625-633 | 10 |
| 898 | Writers, readers and erasers of RNA modifications in cancer. 2020 , 474, 127-137 | 47 |
| 897 | SFPQ Is an FTO-Binding Protein that Facilitates the Demethylation Substrate Preference. 2020 , 27, 283-291.e611 | |

| | | |
|-----|--|----|
| 896 | Widespread non-modular overlapping codes in the coding regions. 2020 , 17, 031002 | 12 |
| 895 | mA mRNA methylation: A pleiotropic regulator of cancer. 2020 , 736, 144415 | 14 |
| 894 | Oncogenic Role of an Epigenetic Reader of mA RNA Modification: YTHDF1 in Merkel Cell Carcinoma. 2020 , 12, | 20 |
| 893 | Epigenetic Signaling and RNA Regulation in Cardiovascular Diseases. 2020 , 21, | 12 |
| 892 | YTHDF2 promotes spermatogonial adhesion through modulating MMPs decay via mA/mRNA pathway. 2020 , 11, 37 | 29 |
| 891 | A molecular-level perspective on the frequency, distribution, and consequences of messenger RNA modifications. 2020 , 11, e1586 | 21 |
| 890 | N-methyladenosine mediates arsenite-induced human keratinocyte transformation by suppressing p53 activation. 2020 , 259, 113908 | 22 |
| 889 | -Methyladenosine Level in Silkworm Midgut/Ovary Cell Line Is Associated With Nucleopolyhedrovirus Infection. 2019 , 10, 2988 | 11 |
| 888 | N6-methyladenosine demethylase FTO promotes M1 and M2 macrophage activation. 2020 , 69, 109553 | 38 |
| 887 | Post-Transcriptional Regulation of Homeostatic, Stressed, and Malignant Stem Cells. 2020 , 26, 138-159 | 23 |
| 886 | Antibody-free enzyme-assisted chemical approach for detection of N-methyladenosine. 2020 , 16, 896-903 | 58 |
| 885 | REPIC: a database for exploring the N-methyladenosine methylome. 2020 , 21, 100 | 33 |
| 884 | Modification of Adenosine196 by Mettl3 Methyltransferase in the 5'-External Transcribed Spacer of 47S Pre-rRNA Affects rRNA Maturation. 2020 , 9, | 4 |
| 883 | Pathogenic diversity of RNA variants and RNA variation-associated factors in cancer development. 2020 , 52, 582-593 | 4 |
| 882 | The Emerging Roles of RNA Modifications in Glioblastoma. 2020 , 12, | 45 |
| 881 | FTO Demethylates Cyclin D1 mRNA and Controls Cell-Cycle Progression. 2020 , 31, 107464 | 16 |
| 880 | Mapping and editing of nucleic acid modifications. 2020 , 18, 661-667 | 7 |
| 879 | Global Approaches in Studying RNA-Binding Protein Interaction Networks. 2020 , 45, 593-603 | 18 |

| | | |
|-----|--|-----|
| 878 | METTL3 is essential for postnatal development of brown adipose tissue and energy expenditure in mice. 2020 , 11, 1648 | 22 |
| 877 | The RNA modification N-methyladenosine as a novel regulator of the immune system. 2020 , 21, 501-512 | 111 |
| 876 | Deoxyribozyme-based method for absolute quantification of -methyladenosine fractions at specific sites of RNA. 2020 , 295, 6992-7000 | 12 |
| 875 | Mechanistic insights into m6A modification of U6 snRNA by human METTL16. 2020 , 48, 5157-5168 | 31 |
| 874 | Natural Variation in RNA mA Methylation and Its Relationship with Translational Status. 2020 , 182, 332-344 | 32 |
| 873 | Wilms' tumour 1-associating protein inhibits endothelial cell angiogenesis by m6A-dependent epigenetic silencing of desmoplakin in brain arteriovenous malformation. 2020 , 24, 4981-4991 | 21 |
| 872 | No evidence for DNA -methyladenine in mammals. 2020 , 6, eaay3335 | 46 |
| 871 | A five-gene signature derived from m6A regulators to improve prognosis prediction of neuroblastoma. 2020 , 28, 275-284 | 10 |
| 870 | Insights into the Regulatory Role of mA Epitranscriptome in Glioblastoma. 2020 , 21, | 19 |
| 869 | Insights into the N-methyladenosine mechanism and its functionality: progress and questions. 2020 , 40, 639-652 | 9 |
| 868 | RNA demethylase ALKBH5 promotes ovarian carcinogenesis in a simulated tumour microenvironment through stimulating NF- κ B pathway. 2020 , 24, 6137-6148 | 36 |
| 867 | Global profiling of N -methyladenosine methylation in maize callus induction. 2020 , 13, e20018 | 7 |
| 866 | A metabolic labeling method detects mA transcriptome-wide at single base resolution. 2020 , 16, 887-895 | 70 |
| 865 | Role of RNA modifications in cancer. 2020 , 20, 303-322 | 187 |
| 864 | Occurrence and Functions of mA and Other Covalent Modifications in Plant mRNA. 2020 , 182, 79-96 | 32 |
| 863 | Multiple links between 5-methylcytosine content of mRNA and translation. 2020 , 18, 40 | 37 |
| 862 | Naturally occurring modified ribonucleosides. 2020 , 11, e1595 | 46 |
| 861 | The emerging molecular mechanism of mA modulators in tumorigenesis and cancer progression. 2020 , 127, 110098 | 22 |

| | | |
|-----|---|-----|
| 860 | Recent developments of small molecules targeting RNA mA modulators. 2020 , 196, 112325 | 10 |
| 859 | Limits in the detection of mA changes using MeRIP/mA-seq. 2020 , 10, 6590 | 71 |
| 858 | N-methyladenosine mRNA methylation of regulates AKT signalling to promote PTEN-deficient pancreatic cancer progression. 2020 , 69, 2180-2192 | 24 |
| 857 | Novel insight into the regulatory roles of diverse RNA modifications: Re-defining the bridge between transcription and translation. 2020 , 19, 78 | 38 |
| 856 | Control of translation elongation in health and disease. 2020 , 13, | 30 |
| 855 | mA-dependent glycolysis enhances colorectal cancer progression. 2020 , 19, 72 | 99 |
| 854 | YTHDF2 promotes mitotic entry and is regulated by cell cycle mediators. 2020 , 18, e3000664 | 24 |
| 853 | Epigenetic N6-methyladenosine modification of RNA and DNA regulates cancer. 2020 , 17, 9-19 | 13 |
| 852 | MTA, an RNA mA Methyltransferase, Enhances Drought Tolerance by Regulating the Development of Trichomes and Roots in Poplar. 2020 , 21, | 7 |
| 851 | Transcription Dynamics Regulate Poly(A) Tails and Expression of the RNA Degradation Machinery to Balance mRNA Levels. 2020 , 78, 434-444.e5 | 18 |
| 850 | The application of 'omics' to pulmonary arterial hypertension. 2021 , 178, 108-120 | 5 |
| 849 | N-Methyladenosine Reader Protein YT521-B Homology Domain-Containing 2 Suppresses Liver Steatosis by Regulation of mRNA Stability of Lipogenic Genes. 2021 , 73, 91-103 | 40 |
| 848 | Comprehensive biological function analysis of lncRNAs in hepatocellular carcinoma. 2021 , 8, 157-167 | 2 |
| 847 | M6A2Target: a comprehensive database for targets of m6A writers, erasers and readers. 2021 , 22, | 33 |
| 846 | HBV-Induced Increased N6 Methyladenosine Modification of PTEN RNA Affects Innate Immunity and Contributes to HCC. 2021 , 73, 533-547 | 37 |
| 845 | mA mRNA methylation regulates testosterone synthesis through modulating autophagy in Leydig cells. 2021 , 17, 457-475 | 25 |
| 844 | RNA contributions to the form and function of biomolecular condensates. 2021 , 22, 183-195 | 120 |
| 843 | Fusaric acid decreases p53 expression by altering promoter methylation and m6A RNA methylation in human hepatocellular carcinoma (HepG2) cells. 2021 , 16, 79-91 | 11 |

| | | |
|-----|---|----|
| 842 | New Twists in Detecting mRNA Modification Dynamics. 2021 , 39, 72-89 | 43 |
| 841 | Multi-substrate selectivity based on key loops and non-homologous domains: new insight into ALKBH family. 2021 , 78, 129-141 | 21 |
| 840 | The roles of hnRNP A2/B1 in RNA biology and disease. 2021 , 12, e1612 | 20 |
| 839 | Silencing of METTL3 attenuates cardiac fibrosis induced by myocardial infarction via inhibiting the activation of cardiac fibroblasts. 2021 , 35, e21162 | 20 |
| 838 | YTHDF1 Promotes Gastric Carcinogenesis by Controlling Translation of. 2021 , 81, 2651-2665 | 52 |
| 837 | Reprogramming of mA epitranscriptome is crucial for shaping of transcriptome and proteome in response to hypoxia. 2021 , 18, 131-143 | 9 |
| 836 | Comprehensive analysis of the transcriptome-wide m6A methylome in colorectal cancer by MeRIP sequencing. 2021 , 16, 425-435 | 21 |
| 835 | A functional m A-RNA methylation pathway in the oyster <i>Crassostrea gigas</i> assumes epitranscriptomic regulation of lophotrochozoan development. 2021 , 288, 1696-1711 | 1 |
| 834 | Emerging translation strategies during virus-host interaction. 2021 , 12, e1619 | 6 |
| 833 | Expression pattern of mA regulators is significantly correlated with malignancy and antitumor immune response of breast cancer. 2021 , 28, 188-196 | 21 |
| 832 | A birds'-eye view of the activity and specificity of the mRNA m A methyltransferase complex. 2021 , 12, e1618 | 15 |
| 831 | LEAD-m6A-seq for Locus-Specific Detection of N6-Methyladenosine and Quantification of Differential Methylation. 2021 , 133, 886-893 | |
| 830 | Increased m6A modification of RNA methylation related to the inhibition of demethylase FTO contributes to MEHP-induced Leydig cell injury. 2021 , 268, 115627 | 16 |
| 829 | Mechanisms of epitranscriptomic gene regulation. 2021 , 112, e23403 | 5 |
| 828 | LEAD-m A-seq for Locus-Specific Detection of N -Methyladenosine and Quantification of Differential Methylation. 2021 , 60, 873-880 | 9 |
| 827 | RMDisease: a database of genetic variants that affect RNA modifications, with implications for epitranscriptome pathogenesis. 2021 , 49, D1396-D1404 | 31 |
| 826 | The RNA m6A Reader YTHDF2 Maintains Oncogene Expression and Is a Targetable Dependency in Glioblastoma Stem Cells. 2021 , 11, 480-499 | 73 |
| 825 | Tag-Free Internal RNA Labeling and Photocaging Based on mRNA Methyltransferases. 2021 , 60, 4098-4103 | 18 |

| | | |
|-----|---|----|
| 824 | Remodeling of the mA landscape in the heart reveals few conserved post-transcriptional events underlying cardiomyocyte hypertrophy. 2021 , 151, 46-55 | 11 |
| 823 | Novel Insights Into the Role of N6-Methyladenosine RNA Modification in Bone Pathophysiology. 2021 , 30, 17-28 | 6 |
| 822 | The cardiac methylome: A hidden layer of RNA modifications to regulate gene expression. 2021 , 152, 40-51 | 2 |
| 821 | Epitranscriptomic m6A regulation following spinal cord injury. 2021 , 99, 843-857 | 8 |
| 820 | The impact of epitranscriptomic marks on post-transcriptional regulation in plants. 2021 , 20, 113-124 | 3 |
| 819 | Emerging roles of RNA modifications in genome integrity. 2021 , 20, 106-112 | 4 |
| 818 | The epitranscriptome beyond mA. 2021 , 22, 119-131 | 93 |
| 817 | Emerging roles of circular RNAs in innate immunity. 2021 , 68, 107-115 | 9 |
| 816 | Clinicopathological and immunological characterization of RNA m A methylation regulators in ovarian cancer. 2021 , 9, e1547 | 9 |
| 815 | Aberrant regulation of RNA methylation during spermatogenesis. 2021 , 56, 3-11 | 1 |
| 814 | Anything but Ordinary - Emerging Splicing Mechanisms in Eukaryotic Gene Regulation. 2021 , 37, 355-372 | 16 |
| 813 | MetaTX: deciphering the distribution of mRNA-related features in the presence of isoform ambiguity, with applications in epitranscriptome analysis. 2021 , 37, 1285-1291 | 2 |
| 812 | NOseq: amplicon sequencing evaluation method for RNA m6A sites after chemical deamination. 2021 , 49, e23 | 12 |
| 811 | Analysis of N-methyladenosine reveals a new important mechanism regulating the salt tolerance of sweet sorghum. 2021 , 304, 110801 | 13 |
| 810 | The m6A methyltransferase METTL14 inhibits the proliferation, migration, and invasion of gastric cancer by regulating the PI3K/AKT/mTOR signaling pathway. 2021 , 35, e23655 | 22 |
| 809 | Circular RNA circDLC1 inhibits MMP1-mediated liver cancer progression via interaction with HuR. 2021 , 11, 1396-1411 | 37 |
| 808 | Mitochondrial Transcription Factor A Binds to and Promotes Mutagenic Transcriptional Bypass of -Alkylthymidine Lesions. 2021 , 93, 1161-1169 | 1 |
| 807 | ALKBH5 Inhibited Cell Proliferation and Sensitized Bladder Cancer Cells to Cisplatin by m6A-CK2β-Mediated Glycolysis. 2021 , 23, 27-41 | 34 |

| | | |
|-----|---|----|
| 806 | Transcriptome-wide analysis reveals spatial correlation between N6-methyladenosine and binding sites of microRNAs and RNA-binding proteins. 2021 , 113, 205-216 | 4 |
| 805 | RNA Modifications in the Central Nervous System. 2021 , 152-192 | 0 |
| 804 | Tag-Free Internal RNA Labeling and Photocaging Based on mRNA Methyltransferases. 2021 , 133, 4144-4149 | 7 |
| 803 | The momentous role of N6-methyladenosine in lung cancer. 2021 , 236, 3244-3256 | 11 |
| 802 | m6A-Atlas: a comprehensive knowledgebase for unraveling the N6-methyladenosine (m6A) epitranscriptome. 2021 , 49, D134-D143 | 52 |
| 801 | Epigenetic loss of m1A RNA demethylase ALKBH3 in Hodgkin lymphoma targets collagen, conferring poor clinical outcome. 2021 , 137, 994-999 | 7 |
| 800 | High Wilms' tumor 1 associating protein expression predicts poor prognosis in acute myeloid leukemia and regulates mA methylation of MYC mRNA. 2021 , 147, 33-47 | 14 |
| 799 | N4-methylcytidine ribosomal RNA methylation in chloroplasts is crucial for chloroplast function, development, and abscisic acid response in Arabidopsis. 2021 , 63, 570-582 | 6 |
| 798 | piRNA-30473 contributes to tumorigenesis and poor prognosis by regulating m6A RNA methylation in DLBCL. 2021 , 137, 1603-1614 | 30 |
| 797 | mA mRNA methylation analysis provides novel insights into heat stress responses in the liver tissue of sheep. 2021 , 113, 484-492 | 9 |
| 796 | Enterotoxigenic infection promotes enteric defensin expression via FOXO6-METTL3-mA-GPR161 signalling axis. 2021 , 18, 576-586 | 6 |
| 795 | RNA m6A methylation promotes the formation of vasculogenic mimicry in hepatocellular carcinoma via Hippo pathway. 2021 , 24, 83-96 | 24 |
| 794 | Regulation of RNA N-methyladenosine modification and its emerging roles in skeletal muscle development. 2021 , 17, 1682-1692 | 7 |
| 793 | An epigenetic 'extreme makeover': the methylation of flaviviral RNA (and beyond). 2021 , 18, 696-708 | 2 |
| 792 | Regulatory Role of the RNA N-Methyladenosine Modification in Immunoregulatory Cells and Immune-Related Bone Homeostasis Associated With Rheumatoid Arthritis. 2020 , 8, 627893 | 5 |
| 791 | The Impacts of Non-coding RNAs and N-Methyladenosine on Cancer: Past, Present and Future. 2021 , 21, 375-385 | 2 |
| 790 | YTHDF1 and YTHDF2 are associated with better patient survival and an inflamed tumor-immune microenvironment in non-small-cell lung cancer. 2021 , 10, 1962656 | 8 |
| 789 | Harnessing methylation and AdoMet-utilising enzymes for selective modification in cascade reactions. 2021 , 19, 3756-3762 | 7 |

| | | | |
|-----|---|------|----|
| 788 | The Emerging Neuroepitranscriptome. 2021 , 1-22 | | 0 |
| 787 | Regulation of RNA Stability Through RNA Modification. 2021 , 217-246 | | |
| 786 | Experimental and Computational Methods for Guiding Identification and Characterization of Epitranscriptome Proteins. 2021 , 593-632 | | |
| 785 | Conventional and Advanced Techniques for N6-Methyladenosine Modification Mapping in Transcripts. 2021 , 391-409 | | |
| 784 | Epitranscriptomic Signatures in Neural Development and Disease. 2021 , 79-120 | | |
| 783 | Nuclear m6A reader Ythdc1 regulates the scaffold function of LINE1 in mouse ESCs. | | 1 |
| 782 | Multifaceted regulation of translation by the epitranscriptomic modification N-methyladenosine. 2021 , 56, 137-148 | | 5 |
| 781 | The crosstalk between mA RNA methylation and other epigenetic regulators: a novel perspective in epigenetic remodeling. 2021 , 11, 4549-4566 | | 13 |
| 780 | METTL3 regulates heterochromatin in mouse embryonic stem cells. <i>Nature</i> , 2021 , 591, 317-321 | 50.4 | 53 |
| 779 | Atomistic and Thermodynamic Analysis of N6-Methyladenosine (mA) Recognition by the Reader Domain of YTHDC1. 2021 , 17, 1240-1249 | | 4 |
| 778 | BDBB: A Novel Beta-distribution-based Biclustering Algorithm for Revealing Local Co-methylation Patterns in Epi-transcriptome Profiling Data. 2021 , PP, | | 3 |
| 777 | N6-Methyladenosine and G-Quadruplex in Bacterial Messenger RNA. 2021 , 411-422 | | |
| 776 | A Novel mA Gene Signature Associated With Regulatory Immune Function for Prognosis Prediction in Clear-Cell Renal Cell Carcinoma. 2020 , 8, 616972 | | 1 |
| 775 | Development and validation of a novel N6-methyladenosine (m6A)-related multi- long non-coding RNA (lncRNA) prognostic signature in pancreatic adenocarcinoma. 2021 , 12, 2432-2448 | | 7 |
| 774 | mA RNA methylation regulates the fate of endogenous retroviruses. <i>Nature</i> , 2021 , 591, 312-316 | 50.4 | 50 |
| 773 | Role of N6-methyl-adenosine modification in mammalian embryonic development. 2021 , 44, e20200253 | | 1 |
| 772 | Methyltransferase-like 3 contributes to inflammatory pain by targeting TET1 in YTHDF2-dependent manner. 2021 , 162, 1960-1976 | | 7 |
| 771 | Regulation of Gene Expression Associated With the N6-Methyladenosine (m6A) Enzyme System and Its Significance in Cancer. 2020 , 10, 623634 | | 8 |

| | | |
|-----|---|----|
| 770 | mA-RNA Demethylase FTO Inhibitors Impair Self-Renewal in Glioblastoma Stem Cells. 2021 , 16, 324-333 | 28 |
| 769 | m A deposition is regulated by PRMT1-mediated arginine methylation of METTL14 in its disordered C-terminal region. 2021 , 40, e106309 | 8 |
| 768 | Relative Quantification of Residue-Specific mA RNA Methylation Using mA-RT-QPCR. 2021 , 2298, 185-195 | 1 |
| 767 | Mapping RNA Modifications Using Photo-Crosslinking-Assisted Modification Sequencing. 2021 , 2298, 123-134 | 3 |
| 766 | WHISTLE: A Functionally Annotated High-Accuracy Map of Human mA Epitranscriptome. 2021 , 2284, 519-529 | 3 |
| 765 | Identification of an N6-methyladenosine-mediated positive feedback loop that promotes Epstein-Barr virus infection. 2021 , 296, 100547 | 3 |
| 764 | Precise identification of an RNA methyltransferase's substrate modification site. 2021 , 57, 2499-2502 | 2 |
| 763 | Mettl14-Mediated mA Modification Facilitates Liver Regeneration by Maintaining Endoplasmic Reticulum Homeostasis. 2021 , 12, 633-651 | 3 |
| 762 | Discovery and Characterization of Non-coding RNA Through Modern Genomics. 2021 , 284-298 | |
| 761 | Porcine iPSCs. 2021 , 93-127 | |
| 760 | The tumor-suppressive effects of alpha-ketoglutarate-dependent dioxygenase FTO via N6-methyladenosine RNA methylation on bladder cancer patients. 2021 , 12, 5323-5333 | 1 |
| 759 | Mass spectrometric analysis of mRNA 5' terminal modifications. 2021 , 658, 407-418 | 0 |
| 758 | Targeted RNA mA Editing Using Engineered CRISPR-Cas9 Conjugates. 2021 , 2298, 399-414 | 0 |
| 757 | Quantitative and Single-Nucleotide Resolution Profiling of RNA 5-Methylcytosine. 2021 , 2298, 135-151 | |
| 756 | Roles of m6A RNA Modification in Normal Development and Disease. 2021 , 267-308 | 1 |
| 755 | Recent advances in functional annotation and prediction of the epitranscriptome. 2021 , 19, 3015-3026 | 2 |
| 754 | The mA methylome of SARS-CoV-2 in host cells. 2021 , 31, 404-414 | 28 |
| 753 | Targeting the RNA demethylase FTO for cancer therapy. 2021 , 2, 1352-1369 | 4 |

| | | |
|-----|---|----|
| 752 | METTL3/YTHDF2 m6A axis accelerates colorectal carcinogenesis through epigenetically suppressing YPEL5. 2021 , 15, 2172-2184 | 14 |
| 751 | HIV modifies the m6A and m5C epitranscriptomic landscape of the host cell. | 0 |
| 750 | RNA modifications in cardiovascular disease: An experimental and computational perspective. 2021 , 113-125 | |
| 749 | Solid-phase XRN1 reactions for RNA cleavage: application in single-molecule sequencing. 2021 , 49, e41 | 4 |
| 748 | RNA Metabolism Guided by RNA Modifications: The Role of SMUG1 in rRNA Quality Control. 2021 , 11, | 6 |
| 747 | An Informatics Pipeline for Profiling and Annotating RNA Modifications. 2021 , 2298, 15-27 | 0 |
| 746 | miCLIP-MaPseq Identifies Substrates of Radical SAM RNA-Methylating Enzyme Using Mechanistic Cross-Linking and Mismatch Profiling. 2021 , 2298, 105-122 | 0 |
| 745 | Epigenomic alterations in cancer: mechanisms and therapeutic potential.. 2022 , 136, 473-492 | 0 |
| 744 | RNA methylation influences TDP43 binding and disease pathogenesis in models of amyotrophic lateral sclerosis and frontotemporal dementia. | |
| 743 | Epitranscriptomics of SARS-CoV-2 Infection.. 2022 , 10, 849298 | 1 |
| 742 | One genome, many cell states: epigenetic control of innate immunity.. 2022 , 75, 102173 | 0 |
| 741 | mA RNA modification in transcription regulation.. 2021 , 12, 266-276 | 2 |
| 740 | The Status and Prospects of Epigenetics in the Treatment of Lymphoma.. 2022 , 12, 874645 | 1 |
| 739 | N6-methyladenosine reader YTHDF1 promotes ARHGEF2 translation and RhoA signaling in colorectal cancer.. 2021 , | 4 |
| 738 | Discovery of two novel ALKBH5 selective inhibitors that exhibit uncompetitive or competitive type and suppress the growth activity of glioblastoma multiforme.. 2022 , | 1 |
| 737 | The Emerging Role of N6-Methyladenosine RNA Methylation as Regulators in Cancer Therapy and Drug Resistance.. 2022 , 13, 873030 | 3 |
| 736 | The emerging roles of the interaction between m6A modification and c-Myc in driving tumorigenesis and development.. 2022 , | 0 |
| 735 | Transcriptome-wide N6-methyladenosine (m6A) methylation profiling of fresh-cut potato browning inhibition by nitrogen. 2022 , 187, 111870 | 0 |

| | | |
|-----|---|---|
| 734 | Therapeutic targeting m6A-guided miR-146a-5p signaling contributes to the melittin-induced selective suppression of bladder cancer.. 2022 , 215615 | 1 |
| 733 | Chemical modifications to mRNA nucleobases impact translation elongation and termination.. 2022 , 285, 106780 | 1 |
| 732 | m6A Methylation Regulates Osteoblastic Differentiation and Bone Remodeling.. 2021 , 9, 783322 | 2 |
| 731 | RNA N6-methyladenosine in nonocular and ocular disease.. 2021 , | 2 |
| 730 | Understanding the source of METTL3-independent m6A in mRNA. | 1 |
| 729 | Specific Regulation of mA by SRSF7 Promotes the Progression of Glioblastoma.. 2021 , | 2 |
| 728 | RNA nucleotide methylation: 2021 update.. 2021 , e1691 | 1 |
| 727 | Insights into roles of METTL14 in tumors.. 2021 , e13168 | 1 |
| 726 | Functional interplay within the epitranscriptome: Reality or fiction?. 2021 , e2100174 | 3 |
| 725 | Pm6 A: an Integrated Classification Algorithm for 2021 IEEE International Conference on Bioinformatics and Biomedicine (BIBM) Identifying m6 A Sites. 2021 , | |
| 724 | YTHDC2 is essential for pachytene progression and prevents aberrant microtubule-driven telomere clustering in male meiosis.. 2021 , 37, 110110 | 5 |
| 723 | Research development and potential therapeutic value of m6A modification in occurrence and progression of colorectal tumors. 2021 , 29, 1373-1381 | |
| 722 | N6-Methyladenosine RNA Modification in the Tumor Immune Microenvironment: Novel Implications for Immunotherapy.. 2021 , 12, 773570 | 2 |
| 721 | Transcriptome-Wide m6A Analysis Provides Novel Insights Into Testicular Development and Spermatogenesis in Xia-Nan Cattle.. 2021 , 9, 791221 | 1 |
| 720 | Transcriptome-wide -Methyladenosine Methylome Profiling Reveals mA Regulation of Skeletal Myoblast Differentiation in Cattle (). 2021 , 9, 785380 | 1 |
| 719 | Applications of fluorescent sensors for cancer biomarkers detection. 2021 , | |
| 718 | Novel Insights Into the Multifaceted Functions of RNA n-Methyladenosine Modification in Degenerative Musculoskeletal Diseases.. 2021 , 9, 766020 | 2 |
| 717 | The dual role of N6-methyladenosine on mouse maternal RNAs and 2-cell specific RNAs revealed by ULI-MeRIP sequencing. | 0 |

| | | |
|-----|---|---|
| 716 | Concerted modification of nucleotides at functional centers of the ribosome revealed by single-molecule RNA modification profiling. | |
| 715 | The m6A reader YTHDF2 is a negative regulator for dendrite development and maintenance of retinal ganglion cells. | |
| 714 | METTL3 facilitates hepatic fibrosis progression via m6A-YTHDF2 dependent silencing of GPR161. | 0 |
| 713 | Modulation of Phase Separation by RNA: A Glimpse on N-Methyladenosine Modification.. 2021 , 9, 786454 | 1 |
| 712 | Low Expression of YTH Domain-Containing 1 Promotes Microglial M1 Polarization by Reducing the Stability of Sirtuin 1 mRNA.. 2021 , 15, 774305 | 2 |
| 711 | Emerging role of m6A methylation modification in ovarian cancer.. 2021 , 21, 663 | 2 |
| 710 | Recognition of G-quadruplex RNA by a crucial RNA methyltransferase component, METTL14.. 2021 , | 1 |
| 709 | Integrated Study of Transcriptome-wide mA Methylome Reveals Novel Insights Into the Character and Function of mA Methylation During Yak Adipocyte Differentiation.. 2021 , 9, 689067 | 1 |
| 708 | Epitranscriptomics: An Additional Regulatory Layer in Plants' Development and Stress Response.. 2022 , 11, | 1 |
| 707 | Exploring the expanding universe of small RNAs.. 2022 , | 5 |
| 706 | Parallel-reaction monitoring revealed altered expression of a number of epitranscriptomic reader, writer and eraser proteins accompanied with colorectal cancer metastasis.. 2022 , e2200059 | 2 |
| 705 | Regulatory Role of N6-Methyladenosine in Longissimus Dorsi Development in Yak.. 2022 , 9, 757115 | 1 |
| 704 | Wavelength-resolved photoelectrochemical biosensor triggered by cascade signal amplification reactions for RNA methylation analysis on a single interface. 2022 , 131920 | |
| 703 | Genome-Wide Identification, Classification and Expression Analysis of mA Gene Family in .. 2022 , 23, | 0 |
| 702 | An Alternatively Spliced Variant of METTL3 Mediates Tumor Suppression in Hepatocellular Carcinoma.. 2022 , 13, | 0 |
| 701 | mA RNA demethylase FTO promotes the growth, migration and invasion of pancreatic cancer cells through inhibiting TFPI-2.. 2022 , 1-15 | 1 |
| 700 | The role of m6A methylation in osteosarcoma biological processes and its potential clinical value.. 2022 , 16, 12 | 0 |
| 699 | Exenatide ameliorates hydrogen peroxide-induced pancreatic cell apoptosis through regulation of METTL3-mediated mA methylation.. 2022 , 174960 | 0 |

| | | |
|-----|--|---|
| 698 | Chemo-Enzymatic Modification of the 5' Cap To Study mRNAs.. 2022, | 0 |
| 697 | The Potential Role of m6A RNA Methylation in the Aging Process and Aging-Associated Diseases.. 2022, 13, 869950 | 2 |
| 696 | Primary sequence-assisted prediction of mA RNA methylation sites from Oxford Nanopore direct RNA sequencing data.. 2022, | 0 |
| 695 | DRUMMER-Rapid detection of RNA modifications through comparative nanopore sequencing.. 2022, | 4 |
| 694 | The plant epitranscriptome: revisiting pseudouridine and 2'-O-methyl RNA modifications.. 2022, | 0 |
| 693 | Multi-omics approaches for biomarker discovery in early ovarian cancer diagnosis.. 2022, 79, 104001 | 2 |
| 692 | Paraquat-induced oxidative stress regulates N6-methyladenosine (mA) modification of long noncoding RNAs in Neuro-2a cells.. 2022, 237, 113503 | 1 |
| 691 | Presentation_1.PPTX. 2020, | |
| 690 | Table_1.DOCX. 2020, | |
| 689 | Image_1.TIF. 2020, | |
| 688 | Image_2.TIF. 2020, | |
| 687 | Table_1.xlsx. 2020, | |
| 686 | Table_2.xlsx. 2020, | |
| 685 | Image_1.pdf. 2020, | |
| 684 | Table_1.XLSX. 2020, | |
| 683 | Table_2.DOCX. 2020, | |
| 682 | Table_1.xlsx. 2020, | |
| 681 | Data_Sheet_1.PDF. 2019, | |

680 Presentation_1.zip. **2020**,

679 Table_1.xlsx. **2020**,

678 Table_2.xlsx. **2020**,

677 Table_3.xlsx. **2020**,

676 Table_4.xlsx. **2020**,

675 Table_5.xlsx. **2020**,

674 Table_6.xlsx. **2020**,

673 Table_7.xlsx. **2020**,

672 Table_8.xls. **2020**,

671 Table_9.xlsx. **2020**,

670 Data_Sheet_1.PDF. **2020**,

669 Image_1.JPEG. **2020**,

668 Image_2.JPEG. **2020**,

667 Image_3.JPEG. **2020**,

666 Data_Sheet_1.pdf. **2018**,

665 Table_1.xlsx. **2018**,

664 Table_1.docx. **2020**,

663 Table_1.xlsx. **2020**,

662 Table_2.xlsx. 2020,

661 Table_3.xlsx. 2020,

660 Presentation_1.pdf. 2020,

659 Presentation_1.pdf. 2020,

658 Data_Sheet_1.docx. 2020,

657 Table_1.docx. 2019,

656 Data_Sheet_1.docx. 2020,

655 Data_Sheet_2.docx. 2020,

654 Image_1.TIF. 2020,

653 Image_2.TIF. 2020,

652 Image_3.JPEG. 2020,

651 Image_4.TIF. 2020,

650 Image_5.JPEG. 2020,

649 Image_6.JPEG. 2020,

648 Data_Sheet_1.PDF. 2019,

647 Table_1.pdf. 2019,

646 Data_Sheet_1.csv. 2020,

645 Table_1.XLSX. 2020,

644 Table_2.XLSX. 2020,

643 Table_3.XLS. 2020,

642 Table_4.XLSX. 2020,

641 Table_1.DOC. 2020,

640 Image_1.JPEG. 2020,

639 Data_Sheet_1.docx. 2020,

638 Table_1.DOCX. 2020,

637 Table_2.DOCX. 2020,

636 Table_3.XLSX. 2020,

635 Table_4.XLSX. 2020,

634 Table_5.XLSX. 2020,

633 Data_Sheet_1.xlsx. 2020,

632 Image_1.TIF. 2020,

631 Image_10.TIF. 2020,

630 Image_11.TIF. 2020,

629 Image_12.TIF. 2020,

628 Image_2.TIF. 2020,

627 Image_3.TIF. 2020,

626 Image_4.TIF. 2020,

625 Image_5.TIF. 2020,

624 Image_6.TIF. 2020,

623 Image_7.TIF. 2020,

622 Image_8.TIF. 2020,

621 Image_9.TIF. 2020,

620 Image_1.TIF. 2020,

619 Image_2.TIF. 2020,

618 Image_3.TIF. 2020,

617 Image_4.TIF. 2020,

616 Image_5.TIF. 2020,

615 Image_6.TIF. 2020,

614 Image_7.TIF. 2020,

613 Table_1.DOCX. 2020,

612 Table_10.XLSX. 2020,

611 Table_2.XLSX. 2020,

610 Table_3.XLSX. 2020,

609 Table_4.DOCX. 2020,

608 Table_5.DOCX. 2020,

607 Table_6.docx. 2020,

606 Table_7.DOCX. 2020,

605 Table_8.DOCX. 2020,

604 Table_9.XLSX. 2020,

603 Image_1.JPEG. 2020,

602 Image_2.JPEG. 2020,

601 Table_1.XLS. 2020,

600 Image_1.JPEG. 2020,

599 Image_2.JPEG. 2020,

598 Image_3.JPEG. 2020,

597 Table_1.XLSX. 2020,

596 Table_2.XLSX. 2020,

595 Table_3.XLSX. 2020,

594 YTHDF1 upregulation mediates hypoxia-dependent breast cancer growth and metastasis through regulating PKM2 to affect glycolysis.. 2022, 13, 258

1

593 Biological methylation: redefining the link between genotype and phenotype.. 2022, 1-13

592 A functional screen of RNA binding proteins identifies genes that promote or limit the accumulation of CD138+ plasma cells.. 2022, 11,

1

591 METTL3 facilitates the progression of hepatocellular carcinoma by modulating the m6A level of USP7.. 2021, 13, 13423-13437

590 Activation of METTL3 Promotes White Adipose Tissue Beiging and Combats Obesity.

589 The Role of RNA Methyltransferase in Normal and Malignant Hematopoiesis.. **2022**, 12, 873903 1

588 The Roles and Regulation of m6A Modification in Glioblastoma Stem Cells and Tumorigenesis. **2022**, 10, 969 0

587 Comprehensive Analysis of Long Noncoding RNA Modified by mA Methylation in Oxidative and Glycolytic Skeletal Muscles.. **2022**, 23, 0

586 Effect of Humantenine on mRNA m6A Modification and Expression in Human Colon Cancer Cell Line HCT116. **2022**, 13, 781 1

585 Profiling of Transcriptome-Wide N6-Methyladenosine (m6A) Modifications and Identifying m6A Associated Regulation in Sperm Tail Formation in .. **2022**, 23, 0

584 Discovery of METTL3 Small Molecule Inhibitors by Virtual Screening of Natural Products.. **2022**, 13, 878135 2

583 Epitranscriptomic dynamics in brain development and disease.. **2022**, 0

582 mA RNA modifications: key regulators of normal and malignant hematopoiesis.. **2022**, 0

581 The Role of N-Methyladenosine in the Promotion of Hepatoblastoma: A Critical Review.. **2022**, 11, 0

580 Identification of Implications of Angiogenesis and m6A Modification on Immunosuppression and Therapeutic Sensitivity in Low-Grade Glioma by Network Computational Analysis of Subtypes and Signatures.. **2022**, 13, 871564 1

579 Multiple Phosphorylations of SR Protein SRSF3 and Its Binding to mA Reader YTHDC1 in Human Cells.. **2022**, 11, 0

578 The functional roles of mA modification in T lymphocyte responses and autoimmune diseases.. **2022**, 0

577 RNA Demethylase ALKBH5 Prevents Lung Cancer Progression by Regulating EMT and Stemness Regulating p53.. **2022**, 12, 858694 1

576 Role of main RNA modifications in cancer: N-methyladenosine, 5-methylcytosine, and pseudouridine.. **2022**, 7, 142 2

575 Improved Methods for Deamination-Based mA Detection.. **2022**, 10, 888279 0

574 FTO Alleviates CdCl-Induced Apoptosis and Oxidative Stress via the AKT/Nrf2 Pathway in Bovine Granulosa Cells.. **2022**, 23, 1

573 N6-Methyladenosine RNA Methylation in Cardiovascular Diseases.. **2022**, 9, 887838 1

| | | |
|-----|--|---|
| 572 | An N-methyladenosine-associated lncRNA signature for predicting clinical outcome and therapeutic responses in hepatocellular carcinoma.. 2022 , 10, 464 | 1 |
| 571 | Deep6mAPred: A CNN and Bi-LSTM-based deep learning method for predicting DNA N6-methyladenosine sites across plant species.. 2022 , | 3 |
| 570 | Messenger-RNA Modification Standards and Machine Learning Models Facilitate Absolute Site-Specific Pseudouridine Quantification. | 2 |
| 569 | Global N-methyladenosine methylation analysis reveals the positive correlation between mA modification and mRNA abundance during <i>Apostichopus japonicus</i> disease development.. 2022 , 133, 104434 | |
| 568 | YTHDF2 suppresses the plasmablast genetic program and promotes germinal center formation.. 2022 , 39, 110778 | 2 |
| 567 | Profiling RNA at chromatin targets in situ by antibody-targeted tagmentation. | |
| 566 | Methyltransferase-like 3 Aggravates HCC Development via Mediating N6-Methyladenosine of Ubiquitin-Specific Protease 7.. 2022 , 2022, 6167832 | 1 |
| 565 | FTO mediated ERBB2 demethylation promotes tumor progression in esophageal squamous cell carcinoma cells.. 2022 , 1 | 0 |
| 564 | Epitranscriptomics in fibroblasts and fibrosis.. 2022 , | 0 |
| 563 | The mechanism underlying redundant functions of the YTHDF proteins. | 0 |
| 562 | The emerging roles of N6-methyladenosine (m6A)-modified long non-coding RNAs in human cancers.. 2022 , 8, 255 | 0 |
| 561 | Studies on the fat mass and obesity-associated (FTO) gene and its impact on obesity-associated diseases. 2022 , | 0 |
| 560 | Identification of m6A-Related lncRNA to Predict the Prognosis of Patients with Hepatocellular Carcinoma.. 2022 , 2022, 4169150 | 0 |
| 559 | i5hmCVec: Identifying 5-Hydroxymethylcytosine Sites of RNA Using Sequence Feature Embeddings.. 2022 , 13, 896925 | 0 |
| 558 | The transcriptome-wide N6-methyladenosine (mA) map profiling reveals the regulatory role of mA in the yak ovary.. 2022 , 23, 358 | 0 |
| 557 | Dynamic N6-methyladenosine modification of lncRNA modulated by METTL3 during bacterial disease development in an echinoderm.. 2022 , | 0 |
| 556 | Research Progress of RNA Methylation Modification in Colorectal Cancer. 2022 , 13, | |
| 555 | p53 mA modulation sensitizes hepatocellular carcinoma to apatinib through apoptosis.. 2022 , 1 | 1 |

| | | |
|-----|---|---|
| 554 | Dynamic Transcriptome Profiling Reveals LncRNA-Centred Regulatory Networks in the Modulation of Pluripotency. 2022 , 10, | |
| 553 | RNA modifications can affect RNase H1-mediated PS-ASO activity. 2022 , | 1 |
| 552 | Metformin combats obesity by targeting FTO in an mA-YTHDF2-dependent manner.. 2022 , 1-27 | 0 |
| 551 | Downregulation of Fat Mass and Obesity-Related Protein in the Anterior Cingulate Cortex Participates in Anxiety- and Depression-Like Behaviors Induced by Neuropathic Pain. 2022 , 16, | 1 |
| 550 | The crucial mechanism and therapeutic implication of RNA methylation in bone pathophysiology.. 2022 , 101641 | 1 |
| 549 | Characteristics of N-methyladenosine modification during sexual reproduction of <i>Chlamydomonas reinhardtii</i> .. 2022 , | 0 |
| 548 | ALKBH5 regulates STAT3 activity to affect the proliferation and tumorigenicity of osteosarcoma via an m6A-YTHDF2-dependent manner.. 2022 , 80, 104019 | 0 |
| 547 | Exploring epitranscriptomics for crop improvement and environmental stress tolerance.. 2022 , 183, 56-71 | 0 |
| 546 | MEF2C Expression Is Regulated by the Post-transcriptional Activation of the METTL3-mA-YTHDF1 Axis in Myoblast Differentiation.. 2022 , 9, 900924 | 2 |
| 545 | N6-Methyladenosine dynamic changes and differential methylation in wheat grain development.. 2022 , 255, 125 | 0 |
| 544 | ALKBH5 regulates somatic cell reprogramming in a phase specific manner.. 2022 , | 0 |
| 543 | Role of RNA modifications in carcinogenesis and carcinogen damage response.. 2022 , | 0 |
| 542 | The Role and Research Progress of m6A Methyltransferase KIAA1429 in Malignant Tumors. 2022 , 12, 3985-3993 | |
| 541 | Structure-based design of ligands of the m6A-RNA reader YTHDC1. 2022 , 100057 | 0 |
| 540 | METTL3-mediated mA RNA methylation regulates dorsal lingual epithelium homeostasis.. 2022 , 14, 26 | 0 |
| 539 | A Test and Refinement of Folding Free Energy Nearest Neighbor Parameters for RNA Including N-Methyladenosine.. 2022 , 167632 | 0 |
| 538 | Epitranscriptomic analysis of mA methylome in rats after lumbosacral nerve root avulsion.. 2022 , | |
| 537 | Nanopore-Based Detection of Viral RNA Modifications.. 2022 , e0370221 | 0 |

| | | |
|-----|--|---|
| 536 | Identification of epitranscriptomic methylation marker genes in Arabidopsis and their expression profiling in response to developmental, anatomical, and environmental modulations. 2022 , 100247 | 1 |
| 535 | Deep learning modeling m ⁶ A deposition reveals the importance of downstream cis-element sequences.. 2022 , 13, 2720 | 0 |
| 534 | Structural and functional specificity of H3K36 methylation.. 2022 , 15, 17 | 1 |
| 533 | The m ⁶ A methylation regulates gonadal sex differentiation in chicken embryo.. 2022 , 13, 52 | 1 |
| 532 | The importance of N ⁶ -methyladenosine modification in tumor immunity and immunotherapy.. 2022 , 11, 30 | 0 |
| 531 | Selective detection of m ⁶ A derived from mRNA using the Phospho-tag m ⁶ A assay. | 0 |
| 530 | m ⁶ A methylated EphA2 and VEGFA through IGF2BP2/3 regulation promotes vasculogenic mimicry in colorectal cancer via PI3K/AKT and ERK1/2 signaling. 2022 , 13, | 1 |
| 529 | N ⁶ -methyladenosine regulates maternal RNA maintenance in oocytes and timely RNA decay during mouse maternal-to-zygotic transition. | 0 |
| 528 | METTL3 Regulated the Meat Quality of Rex Rabbits by Controlling PCK2 Expression via a YTHDF2-N ⁶ -Methyladenosine Axis. 2022 , 11, 1549 | 0 |
| 527 | The Progression of N ⁶ -methyladenosine Study and Its Role in Neuropsychiatric Disorders. 2022 , 23, 5922 | 0 |
| 526 | The IGF2BP family of RNA binding proteins links epitranscriptomics to cancer. 2022 , | 0 |
| 525 | The impact of RNA modifications on the biology of DNA virus infection. 2022 , 101, 151239 | 0 |
| 524 | The Interaction Between Epigenetic Changes, EMT, and Exosomes in Predicting Metastasis of Colorectal Cancers (CRC). 12, | 1 |
| 523 | RNA m ⁶ A Modification Changes in Postmortem Nucleus Accumbens of Subjects with Alcohol Use Disorder: A Pilot Study. 2022 , 13, 958 | 0 |
| 522 | A high-throughput approach to predict A-to-I effects on RNA structure indicates a change of double-stranded content in non-coding RNAs. | 0 |
| 521 | Research progress on N ⁶ -methyladenosine in the human placenta. 2022 , | |
| 520 | RNA Methylome Reveals the m ⁶ A-Mediated Regulation of Flavor Metabolites in Tea Leaves under Solar-Withering. | |
| 519 | The Potential Value of m ⁶ A RNA Methylation in the Development of Cancers Focus on Malignant Glioma. 2022 , 13, | 0 |

| | | |
|-----|---|---|
| 518 | Allosteric Regulation of IGF2BP1 as a Novel Strategy for the Activation of Tumor Immune Microenvironment. | 0 |
| 517 | UPF1 promotes rapid degradation of m6A-containing RNAs. 2022 , 39, 110861 | 1 |
| 516 | Emerging Role of Epitranscriptomics in Diabetes Mellitus and Its Complications. 2022 , 13, | 1 |
| 515 | The Role of m6A on Female Reproduction and Fertility: From Gonad Development to Ovarian Aging. 2022 , 10, | 0 |
| 514 | Mettl3 downregulation in germinal vesicle oocytes inhibits mRNA decay and the 1st polar body extrusion during maturation. | |
| 513 | Transcriptome-Wide m6A Methylome and m6A-Modified Gene Analysis in Asthma. 2022 , 10, | 0 |
| 512 | m6A RNA methylation: A dynamic regulator of cardiac muscle and extracellular matrix. 2022 , 100561 | |
| 511 | FTO Prevents Thyroid Cancer Progression by SLC7A11 m6A Methylation in a Ferroptosis-Dependent Manner. 2022 , 13, | 1 |
| 510 | Adenosine N6-Methylation Upregulates the Expression of Human CYP2B6 by Altering the Chromatin Status. | |
| 509 | Detecting and Mapping N6-Methyladenosine on RNA/DNA Hybrids. 2022 , 329-344 | |
| 508 | m6A epitranscriptomic modification regulates neural progenitor-to-glial cell transition in the retina. | |
| 507 | ZNF677 suppresses renal cell carcinoma progression through N6-methyladenosine and transcriptional repression of CDKN3. 2022 , 12, | 0 |
| 506 | Hidden codes in mRNA: Control of gene expression by m6A. 2022 , 82, 2236-2251 | 5 |
| 505 | The Alteration Profiles of m6A-Tagged circRNAs in the Peri-Infarct Cortex After Cerebral Ischemia in Mice. 16, | 0 |
| 504 | Identification of potential natural compound inhibitors and drug like molecules against human METTL3 by docking and molecular dynamics simulation. | 0 |
| 503 | N6-Methyladenosine Modification Patterns and Tumor Microenvironment Immune Characteristics Associated With Clinical Prognosis Analysis in Stomach Adenocarcinoma. 10, | 1 |
| 502 | Attenuated Duck Hepatitis A Virus Infection Is Associated With High mRNA Maintenance in Duckling Liver via m6A Modification. 13, | 0 |
| 501 | Mechanisms and strategies for determining m6A RNA modification sites by natural and engineered m6A effector proteins. | 0 |

| | | |
|-----|---|---|
| 500 | Prognostic Role of M6A-Associated Immune Genes and Cluster-Related Tumor Microenvironment Analysis: A Multi-Omics Practice in Stomach Adenocarcinoma. 10, | 0 |
| 499 | Conserved reduction of m6A marks during aging and neurodegeneration is linked to altered translation of synaptic transcripts. | 0 |
| 498 | m6A in the Signal Transduction Network. 2022 , | 1 |
| 497 | N1-Methylpseudouridine and pseudouridine modifications modulate mRNA decoding during translation. | 0 |
| 496 | mRNA N 6 -methyladenosine is critical for cold tolerance in Arabidopsis. | 1 |
| 495 | Regulation and roles of RNA modifications in aging-related diseases. | 2 |
| 494 | Novel insights into the interaction between N6-methyladenosine methylation and noncoding RNAs in musculoskeletal disorders. | 0 |
| 493 | Remodeling of the m6A RNA landscape in the conversion of acute lymphoblastic leukemia cells to macrophages. | 1 |
| 492 | Mettl14-mediated m6A modification is essential for visual function and retinal photoreceptor survival. 2022 , 20, | 0 |
| 491 | Development and Validation of Prognostic Model for Lung Adenocarcinoma Patients Based on m6A Methylation Related Transcriptomics. 12, | 0 |
| 490 | N6-Methyladenosine Methylome Profiling of Muscle and Adipose Tissues Reveals Methylase-Driven RNA Metabolic Regulatory Networks in Fat Deposition of Rex Rabbits. 2022 , 11, 944 | 0 |
| 489 | Dihydrouridine in the Transcriptome: New Life for This Ancient RNA Chemical Modification. | 2 |
| 488 | Methylated guanosine and uridine modifications in <i>S. cerevisiae</i> mRNAs modulate translation elongation. | 1 |
| 487 | Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory. | 0 |
| 486 | Cancer epitranscriptomics in a nutshell. 2022 , 75, 101924 | 0 |
| 485 | Methyltransferase-like 3 leads to lung injury by up-regulation of interleukin 24 through N6-methyladenosine-dependent mRNA stability and translation efficiency in mice exposed to fine particulate matter 2.5. 2022 , 308, 119607 | 2 |
| 484 | Fine particulate matter induces METTL3-mediated m6A modification of BIRC5 mRNA in bladder cancer. 2022 , 437, 129310 | 1 |
| 483 | N6-methyladenosine methylation analysis reveals transcriptome-wide expression response to salt stress in rice roots. 2022 , 201, 104945 | 0 |

- 482 m6A methyltransferase METTL3 participated in sympathetic neural remodeling post-MI via the TRAF6/NF- κ B pathway and ROS production. **2022**, 170, 87-99 1
- 481 Hypoxia induced ALKBH5 prevents spontaneous abortion by mediating m6A-demethylation of SMAD1/5 mRNAs. **2022**, 1869, 119316 0
- 480 Epitranscriptomics Changes the Play: m6A RNA Modifications in Apoptosis. **2022**, 0
- 479 m6A Methylation in Cardiovascular Diseases: From Mechanisms to Therapeutic Potential. 13, 3
- 478 WTAP targets the METTL3 m6A-methyltransferase complex to cytoplasmic hepatitis C virus RNA to regulate infection. 0
- 477 Crosstalk of RNA Adenosine Modification-Related Subtypes, Establishment of a Prognostic Model, and Immune Infiltration Characteristics in Ovarian Cancer. 13, 0
- 476 Methyladenosine Modification in RNAs: From Regulatory Roles to Therapeutic Implications in Cancer. **2022**, 14, 3195 0
- 475 The RNA demethylase FTO controls m6A marking on SARS-CoV-2 and classifies COVID-19 severity in patients. 0
- 474 Exon-intron architecture determines mRNA stability by dictating m6A deposition. 0
- 473 Honeybee iflaviruses pack specific tRNA fragments from host cells in their virions. 0
- 472 Ibuprofen promotes p75 neurotrophin receptor expression through modifying promoter methylation and N6-methyladenosine-RNA-methylation in human gastric cancer cells. **2022**, 13, 14595-14604 1
- 471 Novel insights into roles of N6-methyladenosine reader YTHDF2 in cancer progression. 0
- 470 Regulatory Role of N6-Methyladenosine (m6A) Modification in Osteoarthritis. 10, 1
- 469 Gene amplification-driven RNA methyltransferase KIAA1429 promotes tumorigenesis by regulating BTG2 via m6A-YTHDF2-dependent in lung adenocarcinoma. **2022**, 42, 609-626 0
- 468 Research advances of N6 -methyladenosine in diagnosis and therapy of pancreatic cancer. 2
- 467 RNA N6-Methyladenine Modification, Cellular Reprogramming, and Cancer Stemness. 10, 0
- 466 Crosstalk among m6A RNA methylation, hypoxia and metabolic reprogramming in TME: from immunosuppressive microenvironment to clinical application. **2022**, 15, 1
- 465 The Role of RNA Modification in HIV-1 Infection. **2022**, 23, 7571 1

| | | |
|-----|---|---|
| 464 | Hyperactivity of the CD155 immune checkpoint suppresses anti-viral immunity in patients with coronary artery disease. 2022 , 1, 634-648 | 0 |
| 463 | m6Aexpress-BHM: predicting m6A regulation of gene expression in multiple-groups context by a Bayesian hierarchical mixture model. 2022 , 23, | 0 |
| 462 | TTC22 promotes m6A-mediated WTAP expression and colon cancer metastasis in an RPL4 binding-dependent pattern. | 0 |
| 461 | Progress and application of epitranscriptomic m6A modification in gastric cancer. 2022 , 19, 885-896 | 1 |
| 460 | m6A Topological Transition Coupled to Developmental Regulation of Gene Expression During Mammalian Tissue Development. 10, | |
| 459 | m6A-modified circRNAs: detections, mechanisms, and prospects in cancers. 2022 , 28, | 1 |
| 458 | The role of N6-methyladenosine-modified non-coding RNAs in the pathological process of human cancer. 2022 , 8, | 3 |
| 457 | Expression and clinical significance of the m6A reader YTHDF2 in peripheral blood mononuclear cells from rheumatoid arthritis patients. 2022 , 19, 53-60 | 1 |
| 456 | A single natural RNA modification can destabilize a UA-T-rich RNA-DNA-DNA triple helix. rna.079244.122 | 1 |
| 455 | Alternative splicing as a source of phenotypic diversity. | 4 |
| 454 | Cross-Talk of Multiple Types of RNA Modification Regulators Uncovers the Tumor Microenvironment and Immune Infiltrates in Soft Tissue Sarcoma. 13, | 0 |
| 453 | Lessons Learned and Yet-to-Be Learned on the Importance of RNA Structure in SARS-CoV-2 Replication. | 1 |
| 452 | The Maternal Microbiome Programs the m6A Epitranscriptome of the Mouse Fetal Brain and Intestine. 10, | 1 |
| 451 | An Interplay between Epigenetics and Translation in Oocyte Maturation and Embryo Development: Assisted Reproduction Perspective. 2022 , 10, 1689 | 0 |
| 450 | Altered m6A RNA methylation contributes to hippocampal memory deficits in Huntington's disease mice. 2022 , 79, | 0 |
| 449 | N6-methyladenosine and Its Implications in Viruses. 2022 , | 0 |
| 448 | N6-methyladenosine modulates long non-coding RNA in the developing mouse heart. 2022 , 8, | 0 |
| 447 | The Epitranscriptome in miRNAs: Crosstalk, Detection, and Function in Cancer. 2022 , 13, 1289 | 0 |

| | | |
|-----|---|---|
| 446 | Change of Heart: the Epitranscriptome of Small Non-coding RNAs in Heart Failure. | 0 |
| 445 | Wilms Tumor 1-Associated Protein Expression Is Linked to a T-Cell-Inflamed Phenotype in Pancreatic Cancer. | 0 |
| 444 | Research Progress for RNA Modifications in Physiological and Pathological Angiogenesis. 13, | |
| 443 | Comprehensive analysis of the prognosis and immune infiltration landscape of RNA methylation-related subtypes in pancreatic cancer. 2022 , 22, | 0 |
| 442 | RNA m6A modification orchestrates the rhythm of immune cell development from hematopoietic stem cells to T and B cells. 13, | 0 |
| 441 | The Emerging Role of RNA N6-Methyladenosine Modification in Pancreatic Cancer. 12, | |
| 440 | Advances in detecting N6-methyladenosine modification in circRNAs. 2022 , | 1 |
| 439 | Emerging roles of the RNA modifications N6-methyladenosine and adenosine-to-inosine in cardiovascular diseases. 2022 , | 0 |
| 438 | N6-methyladenosine demethylase FTO regulates inflammatory cytokine secretion and tight junctions in retinal pigment epithelium cells. 2022 , 241, 109080 | 2 |
| 437 | RNA m6A modification and microRNAs. 2022 , 169-180 | |
| 436 | DL-M6A: Identification of N6-Methyladenosine Sites in Mammals Using Deep Learning Based on Different Encoding Schemes. 2022 , 1-9 | 1 |
| 435 | Transcriptome-wide study revealed m6A and miRNA regulation of embryonic breast muscle development in Wenchang chickens. 9, | 0 |
| 434 | RNA m6A modification: Mapping methods, roles, and mechanisms in acute myeloid leukemia. 2022 , 4, 116-124 | 1 |
| 433 | Alternative splicing of METTL3 explains apparently METTL3-independent m6A modifications in mRNA. 2022 , 20, e3001683 | 2 |
| 432 | Lighting Up Nucleic Acid Modifications in Single Cells with DNA-Encoded Amplification. 2022 , 55, 2248-2259 | 1 |
| 431 | Multifaceted Roles of the N6-Methyladenosine RNA Methyltransferase METTL3 in Cancer and Immune Microenvironment. 2022 , 12, 1042 | 1 |
| 430 | METTL14-dependent m6A modification controls iNKT cell development and function. 2022 , 40, 111156 | 0 |
| 429 | Role of m6A writers, erasers and readers in cancer. 2022 , 11, | 0 |

| | | |
|-----|--|---|
| 428 | Rational Design and Optimization of m6A-RNA Demethylase FTO Inhibitors as Anticancer Agents. 2022 , 65, 10920-10937 | 1 |
| 427 | Epitranscriptomic N6-methyladenosine profile of SARS-CoV-2-infected human lung epithelial cells. | |
| 426 | Novel insight into m6A regulator-mediated methylation modification patterns and immune characteristics in intracranial aneurysm. 14, | 0 |
| 425 | An Epigenetic Role of Mitochondria in Cancer. 2022 , 11, 2518 | 5 |
| 424 | FMR1 promotes the progression of colorectal cancer cell by stabilizing EGFR mRNA in an m6A-dependent manner. | |
| 423 | The role, mechanism, and application of RNA methyltransferase METTL14 in gastrointestinal cancer. 2022 , 21, | 1 |
| 422 | Transcriptome-wide N6-methyladenosine (m6A) methylation in soybean under Meloidogyne incognita infection. | 0 |
| 421 | Characterization of N6-methyladenosine in cattle-yak testis tissue. 9, | 0 |
| 420 | YT521-B homology domain family proteins as N6-methyladenosine readers in tumors. 13, | |
| 419 | Crosstalk between m6A regulators and mRNA during cancer progression. | 0 |
| 418 | N(6)-methyladenosine modification: A vital role of programmed cell death in myocardial ischemia/reperfusion injury. 2022 , | 0 |
| 417 | Epitranscriptomic mRNA modifications governing plant stress responses: underlying mechanism and potential application. | 0 |
| 416 | Alteration of m6A epitranscriptomic tagging of ribonucleic acids after spinal cord injury in mice. 16, | |
| 415 | Wnt3a/YTHDF1 Regulated Oxaliplatin-Induced Neuropathic Pain Via TNF- α /IL-18 Expression in the Spinal Cord. | 0 |
| 414 | M6A-related lncRNAs predict clinical outcome and regulate the tumor immune microenvironment in hepatocellular carcinoma. 2022 , 22, | 0 |
| 413 | All Quiet on the TE Front? The Role of Chromatin in Transposable Element Silencing. 2022 , 11, 2501 | |
| 412 | How do emerging long-read sequencing technologies function in transforming the plant pathology research landscape?. | 0 |
| 411 | YTHDF3 Is Involved in the Diapause Process of Bivoltine Bombyx mori Strains by Regulating the Expression of Cyp307a1 and Cyp18a1 Genes in the Ecdysone Synthesis Pathway. 2022 , 12, 1127 | 1 |

- 410 Advances of Epigenetic Biomarkers and Epigenome Editing for Early Diagnosis in Breast Cancer. **2022**, 23, 9521 2
- 409 N6-adenomethylation of GsdmC is essential for Lgr5+ stem cell survival to maintain normal colonic epithelial morphogenesis. **2022**, 57, 1976-1994.e8 0
- 408 Single-Molecule Counting of FTO in Human Breast Tissues Based on a Rolling Circle Transcription Amplification-Driven Clustered Regularly Interspaced Short Palindromic Repeat-Cas12a. **2022**, 94, 11425-11432⁰
- 407 A m6A methyltransferase-mediated immune signature determines prognosis, immune landscape and immunotherapy efficacy in patients with lung adenocarcinoma. 1
- 406 FTO promotes clear cell renal cell carcinoma progression via upregulation of PDK1 through an m6A dependent pathway. **2022**, 8, 0
- 405 Research progress of m6A regulation during animal growth and development. **2022**, 101851
- 404 Dysregulation and implications of N6-methyladenosine modification in renal cell carcinoma. Publish Ahead of Print,
- 403 Phase separation in epigenetics and cancer stem cells. 12, 0
- 402 MAPK13 stabilization via m6A modification limits anti-cancer efficacy of rapamycin.
- 401 RNA nucleoprotein complexes in biological systems.
- 400 Dynamic Alteration Profile and New Role of RNA m6A Methylation in Replicative and H2O2-Induced Premature Senescence of Human Embryonic Lung Fibroblasts. **2022**, 23, 9271
- 399 RNA Modifications in Gastrointestinal Cancer: Current Status and Future Perspectives. **2022**, 10, 1918 0
- 398 Comprehensive analysis of RNA m6A methylation in pressure overload-induced cardiac hypertrophy. **2022**, 23,
- 397 Post-Transcriptional Modifications of RNA as Regulators of Apoptosis in Glioblastoma. **2022**, 23, 9272
- 396 RNA binding protein RBM46 regulates mitotic-to-meiotic transition in spermatogenesis. **2022**, 8, 0
- 395 Physio-pathological effects of N6-methyladenosine and its therapeutic implications in leukemia. **2022**, 10, 0
- 394 m6A is required for resolving progenitor identity during planarian stem cell differentiation. 0
- 393 Integrated risk scores from N6-methyladenosine-related lncRNAs are potential biomarkers for predicting the overall survival of bladder cancer patients. 13, 0

- 392 Sex-specific transcriptomic and epitranscriptomic signatures of PTSD-like fear acquisition. **2022**, 25, 104861 ○
- 391 Fragment Ligands of the m6A-RNA Reader YTHDF2. ○
- 390 Hepatic RNA adduction derived from metabolic activation of retrorsine in vitro and in vivo. **2022**, 365, 110047
- 389 Covalent RNA modifications and their budding crosstalk with plant epigenetic processes. **2022**, 69, 102287 ○
- 388 Tomato SLYTH1 encoding a putative RNA m6A reader affects plant growth and fruit shape. **2022**, 323, 111417 1
- 387 Mettl3 regulates hypertrophic differentiation of chondrocytes through modulating Dmp1 mRNA via Ythdf1-mediated m6A modification. **2022**, 164, 116522 ○
- 386 Epigenetic perspectives of COVID-19: Virus infection to disease progression and therapeutic control. **2022**, 1868, 166527 ○
- 385 Astragaloside IV alleviates neuronal ferroptosis in ischemic stroke by regulating FTO-m6A-ACSL4 axis. ○
- 384 Role of WTAP in Cancer: From Mechanisms to the Therapeutic Potential. **2022**, 12, 1224 ○
- 383 Resetting the epigenome: Methylation dynamics in cancer stem cells. 10, ○
- 382 The landscape of m6A regulators in multiple brain regions of Alzheimer's Disease. ○
- 381 m6A-TSHub: Unveiling the Context-specific m6A Methylation and m6A-affecting Mutations in 23 Human Tissues. **2022**, ○
- 380 1m6A -modified HOTAIRM1 promotes vasculogenic mimicry formation in glioma. ○
- 379 Adenosine N6-methylation upregulates the expression of human CYP2B6 by altering the chromatin status. **2022**, 205, 115247 ○
- 378 Changes in the m6A RNA methylome accompany the promotion of soybean root growth by rhizobia under cadmium stress. **2023**, 441, 129843 1
- 377 The Epigenetics of Noncoding RNA. **2023**, 55-71 ○
- 376 RNA methylation in immune cells. **2022**, 1
- 375 Labeling and Detection of Modified Nucleic Acids. **2022**, 1-32 ○

- 374 RBM15 condensates modulate m6A modification of STYK1 to promote tumorigenesis. **2022**, 20, 4825-4836 ○
- 373 Polypharmacology in Drug Design and Discovery Basis for Rational Design of Multitarget Drugs. **2022**, 397-533 ○
- 372 Transcriptome-wide Profiling of N6-Methyladenosine via a Selective Chemical Labeling Method. 1
- 371 The Progress of the Specific and Rapid Genetic Detection Methods for Ovarian Cancer Diagnosis and Treatment. **2022**, 21, 153303382211144 ○
- 370 Identification of m6A modification patterns and development of m6A hypoxia prognostic signature to characterize tumor microenvironment in triple-negative breast cancer. 13, ○
- 369 Wilms tumor 1 associated protein promotes epithelial mesenchymal transition of gastric cancer cells by accelerating TGF- β and enhances chemoradiotherapy resistance. ○
- 368 Knockdown of METTL16 Disrupts Learning and Memory by Reducing the Stability of MAT2A mRNA. ○
- 367 RNA m6A Modification in Liver Biology and Its Implication in Hepatic Diseases and Carcinogenesis. ○
- 366 Enhancer RNAs step forward: new insights into enhancer function. **2022**, 149, 1
- 365 RBM45 is an m6A-binding protein that affects neuronal differentiation and the splicing of a subset of mRNAs. **2022**, 40, 111293 ○
- 364 The Critical Role of RNA m6A Methylation in Gliomas: Targeting the Hallmarks of Cancer. ○
- 363 Exploration of N6-Methyladenosine Profiles of mRNAs and the Function of METTL3 in Atherosclerosis. **2022**, 11, 2980 1
- 362 Building integrative functional maps of gene regulation. ○
- 361 Recent developments in the significant effect of mRNA modification (M6A) in glioblastoma and esophageal cancer. **2022**, 17, e01347 ○
- 360 Reduced N6-methyladenosine mediated by METTL3 acetylation promotes MTF1 expression and hepatocellular carcinoma cell growth. ○
- 359 m6A RNA methylation in brain injury and neurodegenerative disease. 13, ○
- 358 Differential RNA methylation analysis for MeRIP-seq data under general experimental design. ○
- 357 Exploring the epitranscriptome by native RNA sequencing. rna.079404.122 1

| | | |
|-----|---|---|
| 356 | N6-methyladenosine in hematological malignancies: a concise review. Publish Ahead of Print, | 0 |
| 355 | Transcriptome-wide m6A methylome analysis uncovered the changes of m6A modification in oral pre-malignant cells compared with normal oral epithelial cells. 12, | 0 |
| 354 | The role and regulatory mechanism of m6A methylation in the nervous system. 13, | 0 |
| 353 | Genome-wide identification of the AlkB homologs gene family, PagALKBH9B and PagALKBH10B regulated salt stress response in Populus. 13, | 1 |
| 352 | Cryo-EM structures of human m6A writer complexes. | 1 |
| 351 | Transcriptome Profiling Revealed the Relationship Between Immune-Related Genes and m6A Modifiers in Polycystic Ovary Syndrome. | 0 |
| 350 | RNA modification by M6A methylation in cardiovascular diseases: Current trends and future directions. 2022 , 2, 158-177 | 0 |
| 349 | The role of RNA m6A methylation in lipid metabolism. 13, | 1 |
| 348 | Geographic encoding of transcripts enabled high-accuracy and isoform-aware deep learning of RNA methylation. | 1 |
| 347 | A programmable system to methylate and demethylate N6-Methyladenosine (m6A) on specific RNA transcripts in mammalian cells. 2022 , 102525 | 0 |
| 346 | ALKBH9C, a potential RNA m 6 A demethylase, regulates the response of Arabidopsis to abiotic stresses and abscisic acid. | 0 |
| 345 | The effects of RNA methylation on immune cells development and function. 2022 , 36, | 0 |
| 344 | Targeted Quantitative Profiling of Epitranscriptomic Reader, Writer, and Eraser Proteins Using Stable Isotope-Labeled Peptides. 2022 , 94, 12559-12564 | 0 |
| 343 | The role of RNA modification in hepatocellular carcinoma. 13, | 0 |
| 342 | METTL3 mediated m 6 A mRNA contributes to the resistance of carbon-ion radiotherapy in non-small cell lung cancer. | 0 |
| 341 | RMDisease V2.0: an updated database of genetic variants that affect RNA modifications with disease and trait implication. | 0 |
| 340 | A high-throughput approach to predict A-to-I effects on RNA structure indicates a change of double-stranded content in noncoding RNAs. | 0 |
| 339 | Impact of N6-methyladenosine (m6A) modification on immunity. 2022 , 20, | 1 |

| | | |
|-----|---|---|
| 338 | Identification of Prognosis Signature and Analysis of the Immune Microenvironment in Gastric Cancer Based on ALKBH5. | 0 |
| 337 | Transcriptome-Wide m6A Methylome Profiling in Sorghum following GA3 Treatment under Salt Stress. 2022 , 23, 10674 | 0 |
| 336 | N6-methyladenosine modification: A potential regulatory mechanism in spinal cord injury. 16, | 0 |
| 335 | Effects of writers, erasers and readers within miRNA-related m6A modification in cancers. | 0 |
| 334 | Multilevel regulation of N6-methyladenosine RNA modifications: Implications in tumorigenesis and therapeutic opportunities. 2022 , | 0 |
| 333 | m6A Modification of Long Non-Coding RNA HNF1A-AS1 Facilitates Cell Cycle Progression in Colorectal Cancer via IGF2BP2-Mediated CCND1 mRNA Stabilization. 2022 , 11, 3008 | 0 |
| 332 | The regulation and potential roles of m6A modifications in early embryonic development and immune tolerance at the maternal-fetal interface. 13, | 0 |
| 331 | The construction and analysis of m6A-related ceRNA network and patterns of immune infiltration in calcified aortic valve disease. | 0 |
| 330 | Decreased Urine N6-methyladenosine level is closely associated with the presence of diabetic nephropathy in type 2 diabetes mellitus. 13, | 0 |
| 329 | R2Dtool: Positional interpretation of RNA-centric information in the context of transcriptomic and genomic features. | 1 |
| 328 | Small-Molecule Ebselen Binds to YTHDF Proteins Interfering with the Recognition of N6-Methyladenosine-Modified RNAs. | 1 |
| 327 | METTLing in Stem Cell and Cancer Biology. | 1 |
| 326 | Exercise training ameliorates myocardial phenotypes in heart failure with preserved ejection fraction by changing N6-methyladenosine modification in mice model. 10, | 0 |
| 325 | Analyzing RNA posttranscriptional modifications to decipher the epitranscriptomic code. | 0 |
| 324 | Structural insights into molecular mechanism for N6-adenosine methylation by MT-A70 family methyltransferase METTL4. 2022 , 13, | 4 |
| 323 | m1A and m6A modifications function cooperatively to facilitate rapid mRNA degradation. 2022 , 40, 111317 | 2 |
| 322 | Profiling Analysis of N6-Methyladenosine mRNA Methylation Reveals Differential m6A Patterns during the Embryonic Skeletal Muscle Development of Ducks. 2022 , 12, 2593 | 0 |
| 321 | Targeting RNA N6-methyladenosine modification: a precise weapon in overcoming tumor immune escape. 2022 , 21, | 1 |

| | | |
|-----|---|---|
| 320 | Crosstalk among N6-methyladenosine modification and RNAs in central nervous system injuries. 16, | 0 |
| 319 | RNA modifications in aging-associated cardiovascular diseases. | 0 |
| 318 | Role of m6A RNA Methylation in Thyroid Cancer Cell Lines. 2022 , 23, 11516 | 2 |
| 317 | CPEB2 m6A methylation regulates blood-tumor barrier permeability by regulating splicing factor SRSF5 stability. 2022 , 5, | 1 |
| 316 | Regulating the regulator: a survey of mechanisms from transcription to translation controlling expression of mammalian cell cycle kinase Aurora A. 2022 , 12, | 1 |
| 315 | Comparative genomic analysis of N6-methyladenosine regulators: Writers, erasers, and readers in nine Rosaceae species and functional characterization in response to drought stress in pear (<i>Pyrus bretschneideri</i>). 2022 , | 0 |
| 314 | Genetically encoded chemical crosslinking of RNA in vivo. | 2 |
| 313 | METTL3-IGF2BP3-axis mediates the proliferation and migration of pancreatic cancer by regulating spermine synthase m6A modification. 12, | 1 |
| 312 | The RNA m6A writer WTAP in diseases: structure, roles, and mechanisms. 2022 , 13, | 1 |
| 311 | Autophagy induction promoted by m6A reader YTHDF3 through translation upregulation of FOXO3 mRNA. 2022 , 13, | 3 |
| 310 | IMP1/IGF2BP1 in human colorectal cancer extracellular vesicles. | 0 |
| 309 | Oncofetal protein IGF2BP1 regulates IQGAP3 expression to maintain stem cell potential in cancer. 2022 , 25, 105194 | 0 |
| 308 | Editorial: RNA editing and modification in development and diseases. 13, | 0 |
| 307 | RNA m6A modifications in mammalian gametogenesis and pregnancy. 2022 , | 0 |
| 306 | Profiling RNA at chromatin targets in situ by antibody-targeted tagmentation. | 0 |
| 305 | RNA m6A modifications and potential targeted therapeutic strategies in kidney disease. | 1 |
| 304 | MTDeepM6A-2S: A two-stage multi-task deep learning method for predicting RNA N6-methyladenosine sites of <i>Saccharomyces cerevisiae</i> . 13, | 1 |
| 303 | Investigation of the enhanced photoactivity of CdS/Bi ₂ MoO ₆ /MoSe ₂ and its application in antibody-free enzyme-assisted photoelectrochemical strategy for detection of N6-methyladenosine and FTO protein. 2022 , 20, 100269 | 1 |

| | | |
|-----|---|---|
| 302 | Photoelectrochemical immunosensor for RNA methylation detection based on the enhanced photoactivity of Bi ₂ S ₃ nanorods by g-C ₃ N ₄ nanosheets. 2022 , 183, 108031 | 0 |
| 301 | Modulation of DNA/RNA Methylation by Small-Molecule Modulators and Their Implications in Cancer. 2022 , 557-579 | 0 |
| 300 | Modulation of DNA/RNA Methylation Signaling Mediating Metabolic Homeostasis in Cancer. 2022 , 201-237 | 0 |
| 299 | METTL3-modified lncRNA-SNHG8 binds to PTBP1 to regulate ALAS2 expression to increase oxidative stress and promote myocardial infarction. | 0 |
| 298 | m6A-modified RNA possess distinct poly(A) tails. 2022 , | 0 |
| 297 | Emerging roles and potential clinical applications of translatable circular RNAs in cancer and other human diseases. 2022 , | 0 |
| 296 | Development and validation of a m6A -regulated prognostic signature in lung adenocarcinoma. 12, | 0 |
| 295 | FTO Inhibits Epithelial Ovarian Cancer Progression by Destabilising SNAI1 mRNA through IGF2BP2. 2022 , 14, 5218 | 1 |
| 294 | The Mechanism and Role of N6-methyladenosine (m6A) Modification in Atherosclerosis and Atherosclerotic Diseases. 2022 , 9, 367 | 0 |
| 293 | Absolute quantification of single-base m6A methylation in the mammalian transcriptome using GLORI. | 2 |
| 292 | Biological roles of adenine methylation in RNA. | 1 |
| 291 | Knockdown of METTL16 disrupts learning and memory by reducing the stability of MAT2A mRNA. 2022 , 8, | 0 |
| 290 | YTHDF2 Regulates Macrophage Polarization through NF- κ B and MAPK Signaling Pathway Inhibition or p53 Degradation. 2022 , 2022, 1-15 | 0 |
| 289 | m 6 A demethylase Fto regulates the TNF- α -induced inflammatory response in cementoblasts. | 0 |
| 288 | m6A Methyltransferase KIAA1429 Regulates the Cisplatin Sensitivity of Gastric Cancer Cells via Stabilizing FOXM1 mRNA. 2022 , 14, 5025 | 1 |
| 287 | Novel insight into the functions of N6-methyladenosine modified lncRNAs in cancers (Review). 2022 , 61, | 0 |
| 286 | RNA m 6 A methylation in cancer. | 1 |
| 285 | METTL3/m6A/IFIT2 regulates proliferation, invasion and immunity in esophageal squamous cell carcinoma. 13, | 0 |

- 284 Discovering glycoRNA: Traditional and Non-Canonical Approaches to Studying RNA Modifications. ○
- 283 Reduction of Methyltransferase-like 3-Mediated RNA N6-Methyladenosine Exacerbates the Development of Psoriasis Vulgaris in Imiquimod-Induced Psoriasis-like Mouse Model. **2022**, 23, 12672 ○
- 282 News from around the RNA world: new avenues in RNA biology, biotechnology and therapeutics from the 2022 SIBBM meeting. **2022**, 11, ○
- 281 N1-Methyladenosine Formation, Gene Regulation, Biological Functions, and Clinical Relevance. **2022**, ○
- 280 METTL3 acetylation impedes cancer metastasis via fine-tuning its nuclear and cytosolic functions. **2022**, 13, ○
- 279 The emerging importance of METTL5-mediated ribosomal RNA methylation. 1
- 278 The METTL3 RNA Methyltransferase Regulates Transcriptional Networks in Prostate Cancer. **2022**, 14, 5148 ○
- 277 Identification of genes modified by N6-methyladenosine in patients with colorectal cancer recurrence. 13, ○
- 276 Chronic allergic asthma alters m6A epitranscriptomic tagging of mRNAs and lncRNAs in the lung. ○
- 275 N6-Methyladenosine-Modified CBX1 Regulates Nasopharyngeal Carcinoma Progression Through Heterochromatin Formation and STAT1 Activation. 2205091 ○
- 274 The Role of m6A Modification and m6A Regulators in Esophageal Cancer. **2022**, 14, 5139 ○
- 273 WTAP Regulates Postnatal Development of Brown Adipose Tissue by stabilizing METTL3 in mice. ○
- 272 N6-methyladenine RNA methylation epigenetic modification and kidney diseases. **2022**, ○
- 271 Identification and functional analysis of m6A in the mammary gland tissues of dairy goats at the early and peak lactation stages. 10, ○
- 270 Quantitative and single nucleotide RNA m6A detection technology boosts clinical research based on tissue and cell free RNA modification. **2022**, 12, ○
- 269 Interplay between the m6A Epitranscriptome and Tumor Metabolism: Mechanisms and Therapeutic Implications. **2022**, 10, 2589 ○
- 268 The m7G Modification Level and Immune Infiltration Characteristics in Patients with COVID-19. Volume 15, 2461-2472 ○
- 267 USP36 promotes tumorigenesis and drug sensitivity of glioblastoma by deubiquitinating and stabilizing ALKBH5. ○

| | | |
|-----|---|---|
| 266 | WTAP Targets the METTL3 m ⁶ A-Methyltransferase Complex to Cytoplasmic Hepatitis C Virus RNA to Regulate Infection. | 0 |
| 265 | N ⁶ -methyladenosine functions and its role in skin cancer. | 0 |
| 264 | The N ⁶ -methyladenosine methyltransferase METTL16 enables erythropoiesis through safeguarding genome integrity. 2022 , 13, | 0 |
| 263 | LOC101929709 promotes gastric cancer progression by aiding LIN28B to stabilize c-MYC mRNA. | 0 |
| 262 | Advancement of epigenetics in stroke. 16, | 0 |
| 261 | Methyltransferase like 3-mediated N ⁶ -methylatidin methylation inhibits vascular smooth muscle cells phenotype switching via promoting phosphatidylinositol 3-kinase mRNA decay. 9, | 0 |
| 260 | m ⁶ A modification confers thermal vulnerability to HPV E7 oncotranscripts via reverse regulation of its reader protein IGF2BP1 upon heat stress. 2022 , 41, 111546 | 1 |
| 259 | Detection technologies for RNA modifications. | 0 |
| 258 | Alternative cleavage and polyadenylation generates downstream uncapped RNA isoforms with translation potential. 2022 , 82, 3840-3855.e8 | 1 |
| 257 | N ⁶ -methyladenosine RNA methylation: From regulatory mechanisms to potential clinical applications. 10, | 0 |
| 256 | Modulation of gene expression by YTH domain family (YTHDF) proteins in human physiology and pathology. | 1 |
| 255 | METTL16 regulates m ⁶ A methylation on chronic hepatitis B associated gene HLA-DPB1 involved in liver fibrosis. 13, | 0 |
| 254 | Insights into the mechanism underlying crystalline silica-induced pulmonary fibrosis via transcriptome-wide m ⁶ A methylation profile. 2022 , 247, 114215 | 0 |
| 253 | Transcriptomics and genetic engineering. 2023 , 43-65 | 0 |
| 252 | Critical functions of N ⁶ -adenosine methylation of mRNAs in T cells. 2023 , 1870, 119380 | 0 |
| 251 | Future prospects of transcriptomics. 2023 , 479-492 | 0 |
| 250 | N ⁶ -methyladenine: A Rare and Dynamic DNA Mark. 2022 , 177-210 | 0 |
| 249 | Functional and molecular dissection of HCMV long non-coding RNAs. 2022 , 12, | 1 |

- 248 Epigenetic modifications in the accumulation and function of myeloid-derived suppressor cells. 13, 0
- 247 The role of RNA modification in the generation of acquired drug resistance in glioma. 13, 0
- 246 METTL3 promotes colorectal cancer metastasis by promoting the maturation of pri-microRNA-196b. 0
- 245 Exploring the role of m6A modification in cancer. 2200208 0
- 244 Bio-Orthogonal Chemistry Conjugation Strategy Facilitates Investigation of N-methyladenosine and Thiouridine Guide RNA Modifications on CRISPR Activity. 0
- 243 m6A Methylation Analysis Reveals Networks and Key Genes Underlying the Coarse and Fine Wool Traits in a Full-sib Merino Family. **2022**, 11, 1637 0
- 242 Reverse Transcriptases: From Discovery and Applications to Xenobiology. 0
- 241 3'UTR heterogeneity and cancer progression. **2022**, 1
- 240 The emerging roles of N6-methyladenosine in osteoarthritis. 15, 0
- 239 RNA m6A and 5hmC regulate monocyte and macrophage gene expression programs. 0
- 238 Epitranscriptome: Review of Top 25 Most-Studied RNA Modifications. **2022**, 23, 13851 0
- 237 Research progress on N6-adenosylate methylation RNA modification in heart failure remodeling. **2022**, 0
- 236 Role of N6-methyladenosine in the pathogenesis, diagnosis and treatment of pancreatic cancer (Review). **2022**, 62, 1
- 235 Comprehensive Analysis Revealed the Potential Roles of N6-Methyladenosine (m6A) Mediating E. coli F18 Susceptibility in IPEC-J2 Cells. **2022**, 23, 13602 0
- 234 DirectRMDb: a database of post-transcriptional RNA modifications unveiled from direct RNA sequencing technology. 0
- 233 RNAME: a comprehensive database of RNA modification enzymes. **2022**, 0
- 232 m6A readers, writers, erasers, and the m6A epitranscriptome in breast cancer. **2022**, 0
- 231 Roles of N6-methyladenosine (m6A) modifications in gynecologic cancers: mechanisms and therapeutic targeting. **2022**, 11, 0

| | | |
|-----|---|---|
| 230 | Fat mass and obesity-associated protein alleviates A β 40 induced retinal pigment epithelial cells degeneration via PKA/CREB signaling pathway. | 1 |
| 229 | Detection of m6A from direct RNA sequencing using a multiple instance learning framework. | 2 |
| 228 | RNA methyltransferase NSun2 deficiency promotes neurodegeneration through epitranscriptomic regulation of tau phosphorylation. | 0 |
| 227 | FMR1 promotes the progression of colorectal cancer cell by stabilizing EGFR mRNA in an m6A-dependent manner. 2022 , 13, | 0 |
| 226 | N6-methyladenosine modification governs liver glycogenesis by stabilizing the glycogen synthase 2 mRNA. 2022 , 13, | 0 |
| 225 | Identification of putative reader proteins of 5-methylcytosine and its derivatives in <i>Caenorhabditis elegans</i> RNA. 7, 282 | 0 |
| 224 | HNRNPA2B1-mediated m6A modification of TLR4 mRNA promotes progression of multiple myeloma. 2022 , 20, | 0 |
| 223 | Mettl3-mediated m6A modification of Fgf16 restricts cardiomyocyte proliferation during heart regeneration. 11, | 0 |
| 222 | METTL3-mediated m6A modification stabilizes TERRA and maintains telomere stability. | 1 |
| 221 | Infection phase-dependent dynamics of the viral and host N6-methyladenosine epitranscriptome in the lifecycle of an oncogenic virus in vivo. | 0 |
| 220 | Transcriptome-Wide Study of mRNAs and lncRNAs Modified by m6A RNA Methylation in the Longissimus Dorsi Muscle Development of Cattle-Yak. 2022 , 11, 3654 | 1 |
| 219 | From form to function: m6A methylation links mRNA structure to metabolism. 2022 , 100926 | 0 |
| 218 | IGF2BP3 Mediates the mRNA Degradation of NF1 to Promote Triple-Negative Breast Cancer Progress via an m6A-Dependent Manner. | 0 |
| 217 | Overexpression of FTO alleviates osteoarthritis by regulating the processing of miR-515-5p and the TLR4/MyD88/NF- κ B axis. 2023 , 114, 109524 | 1 |
| 216 | Recent Development of Computational Methods in the Field of Epitranscriptomics. 2022 , 285-309 | 0 |
| 215 | Rational design of novel nucleoside analogues reveals potent antiviral agents for EV71. 2023 , 246, 114942 | 0 |
| 214 | RNA methyltransferases in plants: Breakthroughs in function and evolution. 2023 , 194, 449-460 | 0 |
| 213 | Intertwined regulation between RNA m6A modification and cancer metabolism. 2023 , 2, 100075 | 0 |

| | | |
|-----|--|---|
| 212 | N6-methyladenosine plays a dual role in arsenic carcinogenesis by temporal-specific control of core target AKT1. 2023 , 445, 130468 | 1 |
| 211 | The role of shoot-derived RNAs transported to plant root in response to abiotic stresses. 2023 , 328, 111570 | 0 |
| 210 | Photoperiod alters testicular methyltransferase complex mRNA expression in Siberian hamsters. 2023 , 333, 114186 | 0 |
| 209 | Targeting FTO Suppresses Pancreatic Carcinogenesis via Regulating Stem Cell Maintenance and EMT Pathway. 2022 , 14, 5919 | 0 |
| 208 | Comprehensive profiling of epigenetic modifications in fast-growing moso bamboo shoots. | 1 |
| 207 | N6-methyladenosine Modification of Noncoding RNAs: Mechanisms and Clinical Applications in Cancer. 2022 , 12, 2996 | 0 |
| 206 | N6-methyladenosine-modified lncRNA and mRNA modification profiles in cerebral ischemia-reperfusion injury. 13, | 0 |
| 205 | Biological roles of the RNA m6A modification and its implications in cancer. 2022 , 54, 1822-1832 | 1 |
| 204 | N6-methyladenosine (m6A) reader Pho92 is recruited co-transcriptionally and couples translation to mRNA decay to promote meiotic fitness in yeast. 11, | 0 |
| 203 | m6A-SAC-seq for quantitative whole transcriptome m6A profiling. | 0 |
| 202 | Eukaryotic translation initiation factor eIF4G2 opens novel paths for protein synthesis in development, apoptosis and cell differentiation. | 0 |
| 201 | Exon junction complex shapes the m6A epitranscriptome. 2022 , 13, | 0 |
| 200 | Genomewide m6A Mapping Uncovers Dynamic Changes in the m6A Epitranscriptome of Cisplatin-Treated Apoptotic HeLa Cells. 2022 , 11, 3905 | 1 |
| 199 | Epitranscriptomics in parasitic protists: Role of RNA chemical modifications in posttranscriptional gene regulation. 2022 , 18, e1010972 | 0 |
| 198 | BTG2 suppresses renal cell carcinoma progression through N6-methyladenosine. 12, | 0 |
| 197 | The m6A methyltransferase METTL3 affects cell proliferation and migration by regulating YAP expression in Hirschsprung disease. | 0 |
| 196 | RNA Epigenetics in Chronic Lung Diseases. 2022 , 13, 2381 | 0 |
| 195 | The Role of the m6A RNA Methyltransferase METTL16 in Gene Expression and SAM Homeostasis. 2022 , 13, 2312 | 0 |

| | | |
|-----|---|---|
| 194 | Pre-mRNA splicing inhibits m6A deposition, allowing longer mRNA half-life and flexible protein coding. | 0 |
| 193 | m6A epitranscriptomic modification regulates neural progenitor-to-glial cell transition in the retina. 11, | 1 |
| 192 | The Role of N6-Methyladenosine in Inflammatory Diseases. 2022 , 2022, 1-18 | 0 |
| 191 | N6-Methyladenosine Profile Dynamics Indicates Regulation of Oyster Development by m6A-RNA Epitranscriptomes. 2022 , | 0 |
| 190 | Amentoflavone and methyl hesperidin, novel lead molecules targeting epitranscriptomic modulator in acute myeloid leukemia: in silico drug screening and molecular dynamics simulation approach. 2023 , 29, | 0 |
| 189 | Towards a systems view on RNA-binding proteins and associated RNAs in plants: Guilt by association. | 0 |
| 188 | A positive feedback circuit between RN7SK snRNA and m6A readers is essential for tumorigenesis. 2022 , | 0 |
| 187 | RNA modifications in cardiovascular health and disease. | 1 |
| 186 | Coordinated transcriptional and post-transcriptional epigenetic regulation during skeletal muscle development and growth in pigs. 2022 , 13, | 1 |
| 185 | One-Carbon and Polyamine Metabolism as Cancer Therapy Targets. 2022 , 12, 1902 | 0 |
| 184 | Predicting N6-Methyladenosine Sites in Multiple Tissues of Mammals through Ensemble Deep Learning. 2022 , 23, 15490 | 1 |
| 183 | The alteration of N6-methyladenosine (m6A) modification at the transcriptome-wide level in response of heat stress in bovine mammary epithelial cells. 2022 , 23, | 0 |
| 182 | The N 6 -methyladenosine RNA landscape in the aged mouse hippocampus. | 0 |
| 181 | Dynamic regulation and key roles of ribonucleic acid methylation. 16, | 0 |
| 180 | Analysis approaches for the identification and prediction of N6-methyladenosine sites. 1-24 | 0 |
| 179 | Decoding m6A RNA methylome identifies PRMT6-regulated lipid transport promoting AML stem cell maintenance. 2022 , | 0 |
| 178 | Silencing of IRF8 Mediated by m6A Modification Promotes the Progression of T-Cell Acute Lymphoblastic Leukemia. 2201724 | 0 |
| 177 | Role of PCIF1 -mediated 5?-cap N6 -methyladeonsine mRNA methylation in colorectal cancer and anti-PD -1 immunotherapy. | 0 |

| | | |
|-----|---|---|
| 176 | ALKBH5 promotes PD-L1-mediated immune escape through m6A modification of ZDHHC3 in glioma. 2022 , 8, | 0 |
| 175 | BID-seq: The Quantitative and Base-Resolution Sequencing Method for RNA Pseudouridine. | 0 |
| 174 | Transcriptome-wide profiling and quantification of N6-methyladenosine by enzyme-assisted adenosine deamination. | 0 |
| 173 | METTL14 promotes the oral squamous cell carcinoma progression through regulating the mRNA and m6A levels of CALD1. 2022 , | 0 |
| 172 | Long-read sequencing in the era of epigenomics and epitranscriptomics. 2023 , 20, 25-29 | 0 |
| 171 | YTHDF1 promotes radio-resistance and regulates the repair of DNA double-strand breaks in ESCC. | 0 |
| 170 | Artificial intelligence-based multi-omics analysis fuels cancer precision medicine. 2023 , 88, 187-200 | 1 |
| 169 | Identification and validation of signature for prognosis and immune microenvironment in gastric cancer based on m6A demethylase ALKBH5. 12, | 0 |
| 168 | Exclusion of m6A from splice-site proximal regions by the exon junction complex dictates m6A topologies and mRNA stability. 2023 , | 0 |
| 167 | A Novel Nanosafety Approach Using Cell Painting, Metabolomics, and Lipidomics Captures the Cellular and Molecular Phenotypes Induced by the Unintentionally Formed Metal-Based (Nano)Particles. 2023 , 12, 281 | 0 |
| 166 | The Prognostic Value of a lncRNA Risk Model Consists of 9 m6A Regulator-Related lncRNAs in Hepatocellular Carcinoma (HCC). 2023 , 19, 117693432211420 | 0 |
| 165 | Transcriptome-wide analysis of mRNA N 6 -methyladenosine modification in the embryonic development of <i>Spodoptera frugiperda</i> . | 0 |
| 164 | Shaping the landscape of N6-methyladenosine RNA methylation in Arabidopsis. | 0 |
| 163 | RNA methylation and cellular response to oxidative stress-promoting anticancer agents. 1-36 | 0 |
| 162 | RNA methylation influences TDP43 binding and disease pathogenesis in models of amyotrophic lateral sclerosis and frontotemporal dementia. 2023 , | 1 |
| 161 | Differential methylation of circRNA m6A in an APP/PS1 Alzheimer's disease mouse model. 2023 , 27, | 0 |
| 160 | Emerging Mutual Regulatory Roles between m6A Modification and microRNAs. 2023 , 24, 773 | 0 |
| 159 | ALKBH5 alleviates hypoxia postconditioning injury in D-galactose-induced senescent cardiomyocytes by regulating STAT3. Publish Ahead of Print, | 0 |

- 158 Severe Burn Injury Significantly Alters the Gene Expression and m6A Methylation Tagging of mRNAs and lncRNAs in Human Skin. **2023**, 13, 150 ○
- 157 METTL3 Regulates Osteoclast Biological Behaviors via iNOS/NO-Mediated Mitochondrial Dysfunction in Inflammatory Conditions. **2023**, 24, 1403 ○
- 156 Identification of m6a-related signature genes in esophageal squamous cell carcinoma by machine learning method. 14, ○
- 155 Navigating the pitfalls of mapping DNA and RNA modifications. ○
- 154 Light and temperature regulate m6A-RNA modification to regulate growth in plants. ○
- 153 Tet-dependent 5-hydroxymethyl-Cytosine modification of mRNA regulates the axon guidance genes *robo2* and *slit1* in *Drosophila*. ○
- 152 Detection, regulation, and functions of RNA N6-methyladenosine modification in plants. **2023**, 100546 ○
- 151 N6-methyladenine profiling of low-input multiplex clinical samples on transcriptome reveals RNA modifications implicated in type 2 diabetes and acute myocardial infarction. **2023**, 13, ○
- 150 A Warhorse-shaped topology adopted by the m6A RNA writer complex. **2023**, 33, 9-10 ○
- 149 Translation initiation and dysregulation of initiation factors in rare diseases. **2023**, 30, 101738 ○
- 148 Elucidating the Kinetic Mechanism of Human METTL16. **2023**, 62, 494-506 ○
- 147 Identification of Human RNA m5C sites using CapsuleNet Architecture. **2022**, ○
- 146 lncRNA ZNRD1-AS1 promotes malignant lung cell proliferation, migration, and angiogenesis via the miR-942/TNS1 axis and is positively regulated by the m6A reader YTHDC2. **2022**, 21, ○
- 145 The roles of m6A RNA methylation modification in cancer stem cells: new opportunities for cancer suppression. **2022**, 1, 1-18 ○
- 144 TC-6mA-Pred: Prediction of DNA N6-Methyladenine Sites Using CNN with Transformer. **2022**, ○
- 143 Integrated Profiles of Transcriptome and mRNA m6A Modification Reveal the Intestinal Cytotoxicity of Aflatoxin B1 on HCT116 Cells. **2023**, 14, 79 1
- 142 Wilms tumor 1 associated protein promotes metastasis and chemo-resistance to oxaliplatin by nuclear factor kappa B pathway in gastric cancer. ○
- 141 The potential role of N6-methyladenosine modification of lncRNAs in contributing to the pathogenesis of chronic glomerulonephritis. ○

| | | |
|-----|--|---|
| 140 | mRNA m 6 A methylation in wood frog brain is maintained during freezing and anoxia. | 1 |
| 139 | Integrative analysis implicates the significance of m6A in the liver fibrosis of biliary atresia by regulating THY1. 2023 , 7, e0004-e0004 | 0 |
| 138 | Epitranscriptomic N 6 -Methyladenosine Profile of SARS-CoV-2-Infected Human Lung Epithelial Cells. | 0 |
| 137 | TEAD4 is a master regulator of high-risk nasopharyngeal carcinoma. 2023 , 9, | 0 |
| 136 | Multi-omics analysis of N6-methyladenosine reader IGF2BP3 as a promising biomarker in pan-cancer. 14, | 0 |
| 135 | The mechanism underlying redundant functions of the YTHDF proteins. 2023 , 24, | 0 |
| 134 | The Characterization and Differential Analysis of m6A Methylation in Hycole Rabbit Muscle and Adipose Tissue and Prediction of Regulatory Mechanism about Intramuscular Fat. 2023 , 13, 446 | 0 |
| 133 | RNA N6-methyladenosine methylation and skin diseases. 2023 , 56, | 0 |
| 132 | m 6 A mRNA methylation in human brain is disrupted in Lewy body disorders. | 0 |
| 131 | FTO Regulated Intramuscular Fat by Targeting APMAP Gene via an m6A-YTHDF2-dependent Manner in Rex Rabbits. 2023 , 12, 369 | 0 |
| 130 | Critical Roles of METTL3 in Translation Regulation of Cancer. 2023 , 13, 243 | 1 |
| 129 | m6A Modification Mediates Endothelial Cell Responses to Oxidative Stress in Vascular Aging Induced by Low Fluid Shear Stress. 2023 , 2023, 1-20 | 0 |
| 128 | scm6A-seq reveals single-cell landscapes of the dynamic m6A during oocyte maturation and early embryonic development. 2023 , 14, | 0 |
| 127 | Role of RNA epigenetics in development. 2023 , 137-151 | 0 |
| 126 | Mapping of RNA Modifications by Direct Nanopore Sequencing and JACUSA2. 2023 , 241-260 | 0 |
| 125 | The Potential Role of RNA Writer TRMT61B in the Immune Regulation of Breast Cancer. 2023 , 32-44 | 0 |
| 124 | Analyzing mRNA Epigenetic Sequencing Data with TRESS. 2023 , 163-183 | 0 |
| 123 | Current Insights into m6A RNA Methylation and Its Emerging Role in Plant Circadian Clock. 2023 , 12, 624 | 0 |

- 122 Exon architecture controls mRNA m⁶A suppression and gene expression. ○
- 121 m⁶A RNA methylation orchestrates transcriptional dormancy during developmental pausing. ○
- 120 BTYNB, an inhibitor of RNA binding protein IGF2BP1 reduces proliferation and induces differentiation of leukemic cancer cells. **2023**, 30, 103569 ○
- 119 Methylated guanosine and uridine modifications in *S. cerevisiae* mRNAs modulate translation elongation. ○
- 118 RNA Modification Detection Using Nanopore Direct RNA Sequencing and nanoDoc2. **2023**, 299-319 ○
- 117 The importance of m⁶A topology in chicken embryo mRNA; a precise mapping of m⁶A at the conserved chicken β -actin zipcode. rna.079615.123 ○
- 116 The RNA m⁵C Methylase NSUN2 Modulates Corneal Epithelial Wound Healing. **2023**, 64, 5 ○
- 115 RNA N⁶-methyladenosine modification in female reproductive biology and pathophysiology. **2023**, 21, ○
- 114 N⁶-methyladenosine RNA modification regulates cotton drought response in a Ca²⁺ and ABA-dependent manner. ○
- 113 The m⁶A methyltransferase METTL16 negatively regulates MCP1 expression in mesenchymal stem cells during monocyte recruitment. **2023**, 8, ○
- 112 Comprehensive analyses of molecular features, prognostic values, and regulatory functionalities of m⁶A-modified long non-coding RNAs in lung adenocarcinoma. **2023**, 15, ○
- 111 Profiling of N⁶-methyladenosine methylation in porcine longissimus dorsi muscle and unravelling the hub gene ADIPOQ promotes adipogenesis in an m⁶A-YTHDF1-dependent manner. **2023**, 14, ○
- 110 Critical role of transcriptome-wide m⁶A methylation in the aqueous humor of patients with pseudoexfoliation glaucoma. **2023**, 109473 ○
- 109 Aberrant RNA m⁶A modification in gastrointestinal malignancies: versatile regulators of cancer hallmarks and novel therapeutic opportunities. **2023**, 14, ○
- 108 N⁶-methyladenosine mRNA methylation is important for the light response in soybean. 14, ○
- 107 The significance of N⁶-methyladenosine-modified non-coding RNAs in different disorders. **2023**, 946, 175644 ○
- 106 Integrated analysis of transcriptome-wide m⁶A methylation in a Cd-induced kidney injury rat model. **2023**, 256, 114903 ○
- 105 METTL3 activates PERK-eIF2-dependent coelomocyte apoptosis by targeting the endoplasmic reticulum degradation-related protein SEL1L in echinoderms. **2023**, 1866, 194927 ○

- 104 Controllable assembly of dendritic DNA nanostructures for ultrasensitive detection of METTL3-METTL14 m6A methyltransferase activity in cancer cells and human breast tissues. **2023**, 228, 115217 ○
- 103 The roles of nucleic acid editing in adaptation of zoonotic viruses to humans. **2023**, 60, 101326 ○
- 102 The emerging importance role of m6A modification in liver disease. **2023**, 162, 114669 ○
- 101 m6A-mediated nonhomologous end joining (NHEJ) pathway regulates senescence in *Brachionus plicatilis* (Rotifera). **2023**, 111, 104994 ○
- 100 RNA demethylation-driven functional supramolecular structure for label-free detection of m6A modification eraser FTO in human breast tissues. **2023**, 341208 ○
- 99 The potential role of m6A modifications on immune cells and immunotherapy. **2023**, 160, 114343 ○
- 98 circRNA-miRNA-mRNA network analysis to explore the pathogenesis of abnormal spermatogenesis due to aberrant m6A methylation. ○
- 97 Enhancing recombinant protein and viral vector production in mammalian cells by targeting the YTHDF readers of N⁶-methyladenosine in mRNA. **2023**, 18, ○
- 96 Determinants of Functional MicroRNA Targeting. **2023**, 46, 21-32 ○
- 95 Global Trends of Lipid Metabolism Research in Epigenetics Field: A Bibliometric Analysis from 2012-2021. **2023**, 20, 2382 ○
- 94 The Epigenetic Regulation of RNA N⁶-Methyladenosine Methylation in Glycolipid Metabolism. **2023**, 13, 273 ○
- 93 The development of small molecules targeting methyltransferase-like 3. **2023**, 28, 103513 ○
- 92 RNA m6A methylation across the transcriptome. **2023**, 83, 428-441 1
- 91 FTO negatively regulates the cytotoxic activity of natural killer cells. **2023**, 24, ○
- 90 Determining RNA Natural Modifications and Nucleoside Analog-Labeled Sites by a Chemical/Enzyme-Induced Base Mutation Principle. **2023**, 28, 1517 ○
- 89 RBM3 suppresses stemness remodeling of prostate cancer in bone microenvironment by modulating N⁶-methyladenosine on CTNNB1 mRNA. **2023**, 14, 1
- 88 Vir1p, the Yeast Homolog of Virilizer, is Required for mRNA m6A Methylation and Meiosis. ○
- 87 m6A regulates the stability of cellular transcripts required for efficient KSHV lytic replication. ○

- 86 O-GlcNAcylation of YTHDF2 promotes HBV-related hepatocellular carcinoma progression in an N6-methyladenosine-dependent manner. **2023**, 8,
- 85 The yeast RNA methylation complex consists of conserved yet reconfigured components with m6A-dependent and independent roles.
- 84 RNA Methylome Reveals the m6A-mediated Regulation of Flavor Metabolites in Tea Leaves under Solar-withering. **2023**,
- 83 The m6A methyltransferase METTL3 affects cell proliferation and migration by regulating YAP expression in Hirschsprung disease. **2023**, 39,
- 82 N6-methyladenosine RNA is modified in the rat hippocampus following traumatic brain injury with hypothermia treatment. 17,
- 81 Understanding the Epitranscriptome for Avant-Garde Brain Tumour Diagnostics. **2023**, 15, 1232
- 80 Structure of the *Caenorhabditis elegans* m6A methyltransferase METT10 that regulates SAM homeostasis. **2023**, 51, 2434-2446
- 79 Redox Regulation of m6A Methyltransferase METTL3 in Human β cells Controls the Innate Immune Response in Type 1 Diabetes.
- 78 RNA modification in mRNA cancer vaccines.
- 77 Targeting FTO by Dac51 contributes to attenuating DSS-induced colitis. **2023**, 116, 109789
- 76 RNA methyltransferase BmMettl3 and BmMettl14 in silkworm (*Bombyx mori*) and the regulation of silkworm embryonic development.
- 75 Mechanistic Insights into the Biological Effects of Engineered Nanomaterials: A Focus on Gold Nanoparticles. **2023**, 24, 4109
- 74 m6A methylation: Critical roles in aging and neurological diseases. 16,
- 73 Random Forest model reveals the interaction between N6-methyladenosine modifications and RNA-binding proteins. **2023**, 26, 106250
- 72 Emerging roles of m6A RNA modification in cancer therapeutic resistance. **2023**, 12,
- 71 METTL3 Promotes Endothelium-Mesenchymal Transition of Pulmonary Artery Endothelial Cells by Regulating TRPC6/Calcineurin/NFAT Signaling Pathways. **2023**, 2023, 1-13
- 70 Targeting RNA N6-methyladenosine to synergize with immune checkpoint therapy. **2023**, 22,
- 69 m6A mRNA modification promotes chilling tolerance and modulates gene translation efficiency in *Arabidopsis*.

- 68 Epigenetics. **2023**, 123-145 ○
- 67 An m6A-Driven Prognostic Marker Panel for Renal Cell Carcinoma Based on the First Transcriptome-Wide m6A-seq. **2023**, 13, 823 ○
- 66 The Transcriptome-Wide Mapping of 2-Methylthio-N6-isopentenyladenosine at Single-Base Resolution. **2023**, 145, 5467-5473 ○
- 65 Mouse Embryonic Stem Cell Pluripotency Factors Regulate RNA Methylation. ○
- 64 Vitamin C and Transferrin Reduce RNA Methylation in Mouse Embryonic Stem Cells. ○
- 63 N6-methyladenosine (m6A) as a regulator of carcinogenesis and drug resistance by targeting epithelial-mesenchymal transition and cancer stem cells. **2023**, 9, e14001 ○
- 62 RNA -mediated heterochromatin formation at repetitive elements in mammals. **2023**, 42, ○
- 61 The Role of m6A Modifications in B-Cell Development and B-Cell-Related Diseases. **2023**, 24, 4721 ○
- 60 N6-methyladenosine of Spi2a attenuates inflammation and sepsis-associated myocardial dysfunction in mice. **2023**, 14, ○
- 59 Crosstalk between m6A mRNAs and m6A circRNAs and the time-specific biogenesis of m6A circRNAs after OGD/R in primary neurons. **2023**, 18, ○
- 58 LINC00659 cooperated with ALKBH5 to accelerate gastric cancer progression by stabilising JAK1 mRNA in an m6A-YTHDF2-dependent manner. **2023**, 13, 1
- 57 Roles and therapeutic implications of m6A modification in cancer immunotherapy. 14, ○
- 56 Recent advances in the plant epitranscriptome. **2023**, 24, ○
- 55 Transcriptome-Wide Study Revealed That N6-Methyladenosine Participates in Regulation Meat Production in Goats. **2023**, 12, 1159 ○
- 54 The effects of N6-methyladenosine RNA methylation on the nervous system. ○
- 53 Studies on the Molecular Basis of Heterosis in Arabidopsis thaliana and Vegetable Crops. **2023**, 9, 366 ○
- 52 N6-methyladenosine reader YTHDF family in biological processes: Structures, roles, and mechanisms. 14, ○
- 51 YTHDF2 Is Downregulated in Response to Host Shutoff Induced by DNA Virus Infection and Regulates Interferon-Stimulated Gene Expression. **2023**, 97, ○

- 50 Deficiency of WTAP in islet beta cells results in beta cell failure and diabetes in mice. ○
- 49 M6A-BERT-Stacking: A Tissue-Specific Predictor for Identifying RNA N6-Methyladenosine Sites Based on BERT and Stacking Strategy. **2023**, 15, 731 ○
- 48 The role of RNA methyltransferase METTL3 in gynecologic cancers: Results and mechanisms. 14, 1
- 47 N6-methyladenosine modifications in maternal-fetal crosstalk and gestational diseases. 11, ○
- 46 METTL3-Mediated LncRNA EN_42575 m6A Modification Alleviates CPB2 Toxin-Induced Damage in IPEC-J2 Cells. **2023**, 24, 5725 ○
- 45 Construction of a Single-Molecule Biosensor for Antibody-Free Detection of Locus-Specific N6-Methyladenosine in Cancer Cells and Tissues. **2023**, 95, 5454-5462 ○
- 44 Epitranscriptomics in the development, functions, and disorders of cancer stem cells. 13, ○
- 43 Multi-task adaptive pooling enabled synergetic learning of RNA modification across tissue, type and species from low-resolution epitranscriptomes. ○
- 42 Cancer mutations rewire the RNA methylation specificity of METTL3-METTL14. ○
- 41 m6A-driven SF3B1 translation control steers splicing to direct genome integrity and leukemogenesis. **2023**, 83, 1165-1179.e11 ○
- 40 Insights into the role of nucleotide methylation in metabolic-associated fatty liver disease. 14, ○
- 39 N 6 - Methyladenosine defines a new checkpoint in T cell development. **2023**, 45, ○
- 38 Structural and dynamic properties of the YTH domain in complex with N⁶-methyladenosine RNA studied by accelerated molecular dynamics simulations. **2023**, 11, 72 ○
- 37 Epitranscriptomics in metabolic disease. **2023**, 5, 370-384 ○
- 36 A novel MYCN-YTHDF1 cascade contributes to retinoblastoma tumor growth by eliciting m6A-dependent activation of multiple oncogenes. ○
- 35 Bibliometric analysis of METTL3: Current perspectives, highlights, and trending topics. **2023**, 18, ○
- 34 The role of m6A RNA methylation in autoimmune diseases: Novel therapeutic opportunities. **2023**, ○
- 33 The m6A reader PRRC2A is essential for meiosis I completion during spermatogenesis. **2023**, 14, ○

- 32 RNA modifications in hematological malignancies. ○
- 31 Rolling circle extension-assisted loop-mediated isothermal amplification (Rol-LAMP) method for locus-specific and visible detection of RNA N6-methyladenosine. ○
- 30 Potential Roles of m6A and FTO in Synaptic Connectivity and Major Depressive Disorder. **2023**, 24, 6220 ○
- 29 The essential roles of m6A modification in osteogenesis and common bone diseases. **2023**, ○
- 28 N6-methyladenosine-methylomic landscape of lung tissues of mice with chronic obstructive pulmonary disease. 14, ○
- 27 3'-end mRNA processing within apicomplexan parasites, a patchwork of classic, and unexpected players. ○
- 26 The critical roles of m6A RNA methylation in lung cancer: from mechanism to prognosis and therapy. ○
- 25 Epitranscriptome Mapping of N6-Methyladenosine Using m6A Immunoprecipitation with High Throughput Sequencing in Skeletal Muscle Stem Cells. **2023**, 431-443 ○
- 24 Kinetic Studies on the 2-Oxoglutarate/Fe(II)-Dependent Nucleic Acid Modifying Enzymes from the AlkB and TET Families. **2023**, 3, 65-84 ○
- 23 Systematic comparison of tools used for m6A mapping from nanopore direct RNA sequencing. **2023**, 14, ○
- 22 Contribution of A-to-I RNA editing, M6A RNA Methylation, and Alternative Splicing to physiological brain aging and neurodegenerative diseases.. **2023**, 111807 ○
- 21 Intestinal transit amplifying cells require METTL3 for growth factor signaling, KRAS expression, and cell survival. ○
- 20 Rewiring of RNA methylation by the oncometabolite fumarate in renal cell carcinoma. ○
- 19 ECT9 condensates with ECT1 and regulates plant immunity. 14, ○
- 18 N6-methyladenosine regulator-mediated methylation modification patterns and immune infiltration characterization in Polycystic Ovary Syndrome (PCOS). **2023**, 16, ○
- 17 A bibliometric evaluation of the publications on METTL3 mediated m6A from 2000 to 2022. ○
- 16 Potential genetic therapies based on m6A methylation for skin regeneration: Wound healing and scars/keloids. 11, ○
- 15 Functions of N6-methyladenosine in cancer metabolism: from mechanism to targeted therapy. **2023**, 11, ○

- 14 YTHDF1 phase separation triggers the fate transition of spermatogonial stem cells by activating the **IB-NF-B-CCND1** axis. **2023**, 42, 112403
- 13 m6A-modification of cyclin D1 and c-myc IRESs in glioblastoma controls ITAF activity and resistance to mTOR inhibition. **2023**, 562, 216178
- 12 The structure and function of YTHDF epitranscriptomic m6A readers. **2023**,
- 11 Novel insights into the multifaceted roles of m6A-modified LncRNAs in cancers: biological functions and therapeutic applications. **2023**, 11,
- 10 Identification of a m6A-related ferroptosis signature as a potential predictive biomarker for lung adenocarcinoma. **2023**, 23,
- 9 METTL3 Mediates Epithelial-Mesenchymal Transition by Modulating FOXO1 mRNA N6-Methyladenosine-Dependent YTHDF2 Binding: A Novel Mechanism of Radiation-Induced Lung Injury.
- 8 Role of m6A methylation in retinal diseases. **2023**, 109489
- 7 The RNA m6A landscape of mouse oocytes and preimplantation embryos.
- 6 m6A modification on the fate of colorectal cancer: functions and mechanisms of cell proliferation and tumorigenesis. 13,
- 5 m6A promotes planarian regeneration.
- 4 RNA Modification in the Immune System. **2023**, 41, 73-98
- 3 Artificially Evolved Superbinder for Specific Recognition of N6-Methyladenine Base Modification in DNA and RNA. **2023**, 95, 7071-7075
- 2 m6A readers ECT2/ECT3/ECT4 enhance mRNA stability through direct recruitment of the poly(A) binding proteins in Arabidopsis. **2023**, 24,
- 1 m6A-dependent mevalonate kinase in juvenile hormone synthesis pathway regulates the diapause process of bivoltine silkworm (*Bombyx mori*).