

Selected published papers using TIANGEN RNA purification products

Title	Journal	IF	Sample	Institution
Mutational Landscape of Secondary Glioblastoma Guides MET-Targeted Trial in Brain Tumor	Cell	36.216	Neuroglioma	Beijing Institute of Neurosurgery, Capital Medical University
Genome-wide screening for functional long noncoding RNAs in human cells by Cas9 targeting of splice sites	Nature Biotechnology	31.864	Hela cells	Peking University
Programmable RNA editing by recruiting endogenous ADAR using engineered RNAs	Nature Biotechnology	31.864	HEK293T cells	Peking University
Late-stage tumors induce anemia and immunosuppressive extramedullary erythroid progenitor cells	Nature Medicine	30.641	RNA virus	Xinqiao Hospital of Chongqing Military Medical University
Stress–glucocorticoid–TSC22D3 axis compromises therapy-induced antitumor immunity	Nature Medicine	30.641	Peripheral monocyte	Suzhou Institute of Systems Medicine, Peking Union Medical College
A comprehensive genome variation map of melon identifies multiple domestication events and loci influencing agronomic traits	Nature Genetics	25.455	Muskmelon fruit	Zhengzhou Fruit Research Institute, Chinese Academy of Agricultural Sciences
Fatty Liver Disease Caused by High-Alcohol-Producing <i>Klebsiella pneumoniae</i>	Cell Metabolism	22.415	Mouse liver/intestine/serum	Capital Institute of Pediatrics
IGF-2 Preprograms Maturing Macrophages to Acquire Oxidative Phosphorylation-Dependent Anti-inflammatory Properties	Cell Metabolism	22.415	Human colon cells	Shanghai Institute of Nutrition and Health, CAS
Liver-Resident NK Cells Control Antiviral Activity of Hepatic T Cells via the PD-1-PD-L1 Axis	Immunity	21.522	RNA virus	ShanghaiTech University
METTL3-mediated N6-methyladenosine mRNA modification enhances long-term memory consolidation	Cell Research	17.848	Mouse hippocampus	Institute of Genetics and Developmental Biology
Tom20 senses iron-activated ROS signaling to promote melanoma cell pyroptosis	Cell Research	17.848	HEK293T cells	Xiamen University
Transferrin plays a central role in coagulation balance by interacting with clotting factors	Cell Research	17.848	Mouse liver/brain/spleen/stomach/kidney/muscle, etc.	Kuming Institute of Zoology, CAS
The Nuclear Matrix Protein SAFA Surveils Viral RNA and Facilitates Immunity by Activating Antiviral Enhancers and Super-enhancers	Cell Host & Microbe	15.753	Hela cells, tissue, whole blood	Peking University Health Science Center
Intrahepatic T - Cell Receptor β Immune Repertoire Is Essential for Liver Regeneration	Hepatology	14.971	Mouse liver/lymphocyte	Qingdao University
N6-Methyladenine DNA Modification in the Human Genome	Molecular Cell	14.548	HEK293T cells	The Third Affiliated Hospital of Guangzhou Medical University
RNA 5-Methylcytosine Facilitates the Maternal-to-Zygotic Transition by Preventing Maternal mRNA Decay	Molecular Cell	14.548	RNA prep kit	Beijing Institute of genome research, Chinese Academy of Sciences
S-Nitrosylation Targets GSNO Reductase for Selective Autophagy during Hypoxia Responses in Plants	Molecular Cell	14.548	Arabidopsis seedlings/seeds	Institute of Genetics and Developmental Biology
Disruption of transcription–translation coordination in <i>Escherichia coli</i> leads to premature transcriptional termination	Nature Microbiology	14.3	E.coli	Central China Normal University
A group of receptor kinases are essential for CLAVATA signalling to maintain stem cell homeostasis	Nature Plants	13.297	Arabidopsis thaliana	Lanzhou University
Biased gene retention during diploidization in <i>Brassica</i> linked to three-dimensional genome organization	Nature Plants	13.297	Cabbage leaves	Oil Crops Research Institute, Chinese Academy of Agricultural Sciences
Embryonic resetting of the parental vernalized state by two B3 domain transcription factors in <i>Arabidopsis</i>	Nature Plants	13.297	Arabidopsis seeds	CAS Center for Excellence in Molecular Plant Sciences/ Institute of Plant Physiology and Ecology
Generation of self-compatible diploid potato by knockout of S-RNase	Nature Plants	13.297	Potato	Yunnan Normal University
<i>Musa balbisiana</i> genome reveals subgenome evolution and functional divergence	Nature Plants	13.297	Banana	Chinese Academy of Tropical Agricultural Sciences
Jasmonate promotes artemisinin biosynthesis by activating the TCP14-ORA complex in <i>Artemisia annua</i>	Science Advances	12.804	Root, stem, leaf and flower of <i>Artemisia annua</i>	Shanghai Jiao Tong University

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Arabidopsis SWR1-associated protein methyl-CpG-binding domain 9 is required for histone H2A.Z deposition	Nature Communications	11.878	Arabidopsis seedlings	University of California, Los Angeles
Deficiency of PRKD2 triggers hyperinsulinemia and metabolic disorders	Nature Communications	11.878	Rat β cells	Peking University Health Science Center
Increased glutarate production by blocking the glutaryl-CoA dehydrogenation pathway and a catabolic pathway involving l-2-hydroxyglutarate	Nature Communications	11.878	Pseudomonas putida	Shandong University
Overexpressing lncRNA LAIR increases grain yield and regulates neighbouring gene cluster expression in rice	Nature Communications	11.878	Rice seedlings	Fudan University
Sensing of cytosolic LPS through caspy2 pyrin domain mediates noncanonical inflammasome activation in zebrafish	Nature Communications	11.878	Zebrafish	East China University of Science and Technology
TRPV1 SUMOylation regulates nociceptive signaling in models of inflammatory pain	Nature Communications	11.878	Dorsal root ganglion of mice	Shanghai Jiao Tong University School of Medicine
Ebola virus VP35 has novel NTPase and helicase-like activities	Nucleic Acids Research	11.147	Sf9 cells	Wuhan University
Maintenance of translational elongation rate underlies the survival of Escherichia coli during oxidative stress	Nucleic Acids Research	11.147	E.coli	Central China Normal University
Transcriptional and epigenetic adaptation of maize chromosomes in Oat-Maize addition lines	Nucleic Acids Research	11.147	Corn/oat	China Agricultural University
A GmNINA-miR172c-NNC1 Regulatory Network Coordinates the Nodulation and Autoregulation of Nodulation Pathways in Soybean	Molecular Plant	10.812	Soybean	Huazhong Agricultural University
A Phytophthora capsici Effector Targets ACD11 Binding Partners that Regulate ROS-Mediated Defense Response in Arabidopsis	Molecular Plant	10.812	Phytophthora capsici/Arabidopsis leaves	Nanjing Agricultural University
A PIF7-CONSTANS-Centered Molecular Regulatory Network Underlying Shade-Accelerated Flowering	Molecular Plant	10.812	Tobacco	Fudan University
EL1-like Casein Kinases Suppress ABA Signaling and Responses by Phosphorylating and Destabilizing the ABA Receptors PYR/PYLs in Arabidopsis	Molecular Plant	10.812	Arabidopsis seedlings	Institute of Plant Physiology & Ecology, Shanghai Institutes for Biological Sciences, CAS
The Genome of Artemisia annua Provides Insight into the Evolution of Asteraceae Family and Artemisinin Biosynthesis	Molecular Plant	10.812	Artemisia annua	Shanghai Jiao Tong University
circGSK3 β promotes metastasis in esophageal squamous cell carcinoma by augmenting β -catenin signaling	Molecular Cancer	10.679	TE1 cells	Sun Yat-sen Memorial Hospital, Sun Yat-sen University
Linc00210 drives Wnt/ β -catenin signaling activation and liver tumor progression through CTNNBIP1-dependent manner	Molecular Cancer	10.679	Nucleus/cytoplasm	Affiliated Cancer Hospital of Zhengzhou University
Interleukin-17 receptor D constitutes an alternative receptor for interleukin-17A important in psoriasis-like skin inflammation	Science Immunology	10.551	Mouse skin tissue	Tsinghua University
Heterochromatin protects retinal pigment epithelium cells from oxidative damage by silencing p53 target genes	PNAS	9.58	Mouse eye	Zhongshan Ophthalmic Center, Sun Yat-Sen University
Interlinked regulatory loops of ABA catabolism and biosynthesis coordinate fruit growth and ripening in woodland strawberry	PNAS	9.58	Strawberry	Fujian Agriculture and Forestry University
Selection and environmental adaptation along a path to speciation in the Tibetan frog Nanorana parkeri	PNAS	9.58	Tibetan frog	Kuming Institute of Zoology, CAS
Systemic Root-Shoot Signaling Drives Jasmonate-Based Root Defense against Nematodes	Current Biology	9.193	Tomato leaves	Zhejiang University
Probing the Function of Metazoan Histones with a Systematic Library of H3 and H4 Mutants	Developmental Cell	9.19	Fruitflies	ShanghaiTech University