Selected published papers using TIANGEN genomic purification products

Title	Journal	IF	Sample	Institution
An evolutionarily stable strategy to colonize spatially extended habitats	Nature	43.07	E.coli	Shenzhen Institutes of Advanced Technology,Chinese Academy of Sciences
Genomic Analyses from Non-invasive Prenatal Testing Reveal Genetic Associations, Patterns of Viral Infections, and Chinese Population History	Cell	36.216	NIPT cfDNA	Shenzhen Huada Gene Research Institute
Efficient C-to-T base editing in plants using a fusion of nCas9 and human APOBEC3A	Nature Biotechnology	31.864	Wheat/Rice/Potato	Institute of Genetics and Developmental Biology
Reference genome sequences of two cultivated allotetraploid cottons, Gossypium hirsutum and Gossypium barbadense	Nature Genetics	25.455	Cotton	Huazhong Agricultural University
Resequencing of 683 common bean genotypes identifies yield component trait associations across a north–south cline	Nature Genetics	25.455	Kidney bean	Institute of Crop Sciences, Chinese Academy of Agricultural Sciences
Transcriptional Regulation of the Warburg Effect in Cancer by SIX1	Cancer Cell	23.916	Breast cancer tissue	Institute of Medicinal Biotechnology Chinese Academy of Medical Sciences
A Circular RNA Protects Dormant Hematopoietic Stem Cells from DNA Sensor cGAS-Mediated Exhaustion	Immunity	21.522	Mouse hematopoietic stem cells	Institute of Biophysics, Chinese Academy of Sciences
CRISPR–Cas9-mediated base-editing screening in mice identifies DND1 amino acids that are critical for primordial germ cell development	Nature Cell Biology	17.728	Mouse blastocyst	Shanghai Institute of Biochemistry and Cell Biology, CAS
Ketogenesis-generated β-hydroxybutyrate is an epigenetic regulator of CD8+ T-cell memory development	Nature Cell Biology	17.728	T cells	Tongji Medical College of HUST
Drosophila Histone Demethylase KDM5 Regulates Social Behavior through Immune Control and Gut Microbiota Maintenance	Cell Host & Microbe	15.753	Intestinal microorganism of Drosophila	Nanjing Medical University
A Functional Variant in Ubiquitin Conjugating Enzyme E2 L3 Contributes to Hepatitis B Virus Infection and Maintains Covalently Closed Circular DNA Stability by Inducing Degradation of Apolipoprotein B mRNA Editing Enzyme Catalytic Subunit 3A	Hepatology	14.971	Human whole blood	ChongQing Medical University
N6-Methyladenine DNA Modification in the Human Genome	Molecular Cell	14.548	Cancer tissue/cell line of gastric cancer	The Third Affiliated Hospital of Guangzhou Medical University
Nascent Pre-rRNA Sorting via Phase Separation Drives the Assembly of Dense Fibrillar Components in the Human Nucleolus	Molecular Cell	14.548	Hela cells	Shanghai Institute of Biochemistry and Cell Biology, CAS
Plasmid-encoded tet(X) genes that confer high-level tigecycline resistance in Escherichia coli	Nature Microbiology	14.3	E.coli	South China Agricultural University
Embryonic resetting of the parental vernalized state by two B3 domain transcription factors in Arabidopsis	Nature Plants	13.297	Arabidopsis thaliana	CAS Center for Excellence in Molecular Plant Sciences/Institute of Plant Physiology and Ecology
Cyclophilin J limits inflammation through the blockage of ubiquitin chain sensing	Nature Communications	11.878	293T cells	Sun Yat-sen University
Efficient base editing for multiple genes and loci in pigs using base editors	Nature Communications	11.878	Pig ear	Guangzhou Institute of Biomedicine and Health, CAS
Evolutionary history of Coleoptera revealed by extensive sampling of genes and species	Nature Communications	11.878	371 species of Coleoptera	Sun Yat-sen University
Excessive miR-25-3p maturation via N6-methyladenosine stimulated by cigarette smoke promotes pancreatic cancer progression	Nature Communications	11.878	PANC-1 cells	Sun Yat-sen University
Implantation initiation of self-assembled embryo-like structures generated using three types of mouse blastocyst-derived stem cells	Nature Communications	11.878	Three types of mouse stem cells	China Agricultural University
Leucine-rich repeat receptor-like gene screen reveals that Nicotiana RXEG1 regulates glycoside hydrolase 12 MAMP detection	Nature Communications	11.878	Native tobacco leaf	Nanjing Agricultural University

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Marine biofilms constitute a bank of hidden microbial diversity and functional potential	Nature Communications	11.878	Marine microorganism	The Hong Kong University of Science and Technology
Oncolytic adenovirus programmed by synthetic gene circuit for cancer immunotherapy	Nature Communications	11.878	Human cytogenic tumor tissue	Tsinghua University
Penaeid shrimp genome provides insights into benthic adaptation and frequent molting	Nature Communications	11.878	Penaeus vannamei	The Institute of Oceanology, Chinese Academy of Sciences
Stabilizing heterochromatin by DGCR8 alleviates senescence and osteoarthritis	Nature Communications	11.878	Human mesenchymal stem cells	Institute of Biophysics, Chinese Academy of Sciences
Whole-genome resequencing of 472 Vitis accessions for grapevine diversity and demographic history analyses	Nature Communications	11.878	Grape leaves	Institute of Botany,the Chinese Academy of Sciences/Yunnan Agricultural University
Whole-genome sequencing identifies ADGRG6 enhancer mutations and FRS2 duplications as angiogenesis-related drivers in bladder cancer	Nature Communications	11.878	FFPE specimen of bladder cancer	The Third Affiliated Hospital of Shenzhen University
Creating functional chromosome fusions in yeast with CRISPR–Cas9	Nature Protocols	11.334	Yeast	Institute of Plant Physiology & Ecology, Shanghai Institutes for Biological Sciences, CAS
Genome editing of bread wheat using biolistic delivery of CRISPR/Cas9 in vitro transcripts or ribonucleoproteins	Nature Protocols	11.334	Wheat	Institute of Genetics and Developmental Biology
Genome wide analyses uncover allele-specific RNA editing in human and mouse	Nucleic Acids Research	11.147	U87MG	Kuming Institute of Zoology, CAS
H2A.Z.1 crosstalk with H3K56-acetylation controls gliogenesis through the transcription of folate receptor	Nucleic Acids Research	11.147	Multiple neural precursor cells of mouse brain	Institute of Zoology, Chinese Academy of Sciences
PLK1 targets CtIP to promote microhomology-mediated end joining	Nucleic Acids Research	11.147	U2OS cells	Capital Normal University/Shenzhen University Health Science Center
Sin3a–Tet1 interaction activates gene transcription and is required for embryonic stem cell pluripotency	Nucleic Acids Research	11.147	Mouse embryonic stem cells	Tongji University
Uncoupling of nucleo-cytoplasmic RNA export and localization during stress	Nucleic Acids Research	11.147	U2OS cells	Bar-Ilan University
Discriminated sgRNAs-Based SurroGate System Greatly Enhances the Screening Efficiency of Plant Base-Edited Cells	Molecular Plant	10.812	Wheat	Beijing Academy of Agriculture and Forestry Sciences
The Reference Genome Sequence of Scutellaria baicalensis Provides Insights into the Evolution of Wogonin Biosynthesis	Molecular Plant	10.812	Root, stem, leaf and flower of Scutellaria baicalensis	Shanghai Chenshan Plant Center, Chinese Academy of Sciences
Myeloid-derived suppressor cells endow stem-like qualities to multiple myeloma cells by inducing piRNA-823 expression and DNMT3B activation	Molecular Cancer	10.679	Myeloma cell	Tongji Medical College of HUST
Systematic Functional Interrogation of Genes in GWAS Loci Identified ATF1 as a Key Driver in Colorectal Cancer Modulated by a Promoter-Enhancer Interaction	American Journal of Human Genetics	9.924	Human whole blood	Tongji Medical College of HUST
Tild-CRISPR Allows for Efficient and Precise Gene Knockin in Mouse and Human Cells	Developmental Cell	9.19	Mouse toes, mouse tails	Institute of Neuroscience, Chinese Academy of Sciences
circRNA_0025202 Regulates Tamoxifen Sensitivity and Tumor Progression via Regulating the miR-182-5p/FOXO3a Axis in Breast Cancer	Molecular Therapy	8.402	MCF7, T47D, HEK293T cells	Qilu Hospital of Shandong University
Organic cation transporter 3 (Oct3) is a distinct catecholamines clearance route in adipocytes mediating the beiging of white adipose tissue	PLOS Biology	8.386	Adipose tissue of mice	Tsinghua University
Targeted genetic screening in mice through haploid embryonic stem cells identifies critical genes in bone development	PLOS Biology	8.386	Mouse cells	Shanghai Institute of Biochemistry and Cell Biology, CAS
Up-regulation of FOXD1 by YAP alleviates senescence and osteoarthritis	PLOS Biology	8.386	Human mesenchymal stem cells	Institute of Biophysics, Chinese Academy of Sciences
From Hyper- to Hypoinsulinemia and Diabetes: Effect of KCNH6 on Insulin Secretion	Cell Reports	7.815	Human whole blood	Beijing Tongren Hospital, CMU
Microbiota Depletion Impairs Thermogenesis of Brown Adipose Tissue and Browning of White Adipose Tissue	Cell Reports	7.815	Feces	Institute of Genetics and Developmental Biology