

# CITATION REPORT

List of articles citing

Generation of gene-modified cynomolgus monkey via Cas9/RNA-mediated gene targeting in one-cell embryos

DOI: 10.1016/j.cell.2014.01.027  
Cell, 2014, 156, 836-43.

**Source:** <https://exaly.com/paper-pdf/58999602/citation-report.pdf>

**Version:** 2024-04-19

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
874	sgRNAs9: a software package for designing CRISPR sgRNA and evaluating potential off-target cleavage sites. <b>2014</b> , 9, e100448		218
873	[The revolution of the CRISPR is underway]. <b>2014</b> , 30, 1066-9		1
872	CARF and WYL domains: ligand-binding regulators of prokaryotic defense systems. <b>2014</b> , 5, 102		118
871	Emerging functions of pannexin 1 in the eye. <b>2014</b> , 8, 263		13
870	Chapter 3 - Restoring Vision to the Blind: Gene Therapy for Vision Loss. <b>2014</b> , 3, 5		2
869	The Future of Prenatal Diagnosis and Screening. <b>2014</b> , 3, 1291-301		6
868	Every silver lining has a cloud: the scientific and animal welfare issues surrounding a new approach to the production of transgenic animals. <b>2014</b> , 42, 137-45		6
867	International regulatory landscape and integration of corrective genome editing into in vitro fertilization. <b>2014</b> , 12, 108		85
866	A CRISPR/Cas9 toolkit for multiplex genome editing in plants. <b>2014</b> , 14, 327		669
865	Allele-specific genome editing and correction of disease-associated phenotypes in rats using the CRISPR-Cas platform. <b>2014</b> , 5, 4240		140
864	Generation of Oocytes from Mouse ES/iPS Cells. <b>2014</b> , 31, 70-78		1
863	Genome typing of nonhuman primate models: implications for biomedical research. <b>2014</b> , 30, 482-7		42
862	Mind the gap: models in multiple species needed for therapeutic development in Huntington's disease. <b>2014</b> , 29, 1397-403		25
861	Next-generation models of human cardiogenesis via genome editing. <b>2014</b> , 4, a013920		3
860	CRISPR-Cas: an efficient tool for genome engineering of virulent bacteriophages. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 9504-13	20.1	98
859	Making designer mutants in model organisms. <b>2014</b> , 141, 4042-54		90
858	Generation of eGFP and Cre knockin rats by CRISPR/Cas9. <b>2014</b> , 281, 3779-90		58

857	Genome editing. The new frontier of genome engineering with CRISPR-Cas9. <b>2014</b> , 346, 1258096		3479
856	Targeted and genome-wide sequencing reveal single nucleotide variations impacting specificity of Cas9 in human stem cells. <b>2014</b> , 5, 5507		106
855	Liat1, an arginyltransferase-binding protein whose evolution among primates involved changes in the numbers of its 10-residue repeats. <b>2014</b> , 111, E4936-45		14
854	Cas9-based genome editing in zebrafish. <b>2014</b> , 546, 377-413		36
853	Efficient chromosomal gene modification with CRISPR/cas9 and PCR-based homologous recombination donors in cultured Drosophila cells. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, e89	20.1	88
852	A high-throughput screening strategy for detecting CRISPR-Cas9 induced mutations using next-generation sequencing. <b>2014</b> , 15, 1002		71
851	Functional genetics for all: engineered nucleases, CRISPR and the gene editing revolution. <b>2014</b> , 5, 43		69
850	Generation of multi-gene knockout rabbits using the Cas9/gRNA system. <b>2014</b> , 3, 12		69
849	Generation of genomic deletions in mammalian cell lines via CRISPR/Cas9. <b>2015</b> , e52118		75
848	Animal models of subjective tinnitus. <b>2014</b> , 2014, 741452		33
847	Advances in genome editing technology and its promising application in evolutionary and ecological studies. <b>2014</b> , 3, 24		32
846	High-precision gene editing in monkeys is feasible. <b>2014</b> , 15, 218-218		
845	Potential impact of human mitochondrial replacement on global policy regarding germline gene modification. <b>2014</b> , 29, 150-5		43
844	Gene editing at CRISPR speed. <b>2014</b> , 32, 309-12		29
843	A guide to genome engineering with programmable nucleases. <b>2014</b> , 15, 321-34		853
842	Both CRISPR/Cas-based nucleases and nickases can be used efficiently for genome engineering in <i>Arabidopsis thaliana</i> . <b>2014</b> , 79, 348-59		475
841	Endonucleases: new tools to edit the mouse genome. <b>2014</b> , 1842, 1942-1950		48
840	Classification and evolution of type II CRISPR-Cas systems. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 6091-105	20.1	288

839	Caution required for handling genome editing technology. <b>2014</b> , 32, 234-7		36
838	CRISPR/Cas technology: a revolutionary approach for genome engineering. <i>Science China Life Sciences</i> , <b>2014</b> , 57, 639-40	8.5	19
837	Peeking into a cool future: genome editing to delete PCSK9 and control hypercholesterolemia in a single shot. <b>2014</b> , 115, 472-4		2
836	Efficient ablation of genes in human hematopoietic stem and effector cells using CRISPR/Cas9. <b>2014</b> , 15, 643-52		324
835	Use of the CRISPR/Cas9 system to produce genetically engineered pigs from in vitro-derived oocytes and embryos. <i>Biology of Reproduction</i> , <b>2014</b> , 91, 78	3.9	213
834	CRISPR in the liver. <b>2014</b> , 7, 447-447		
833	Balancing the welfare: the use of non-human primates in research. <b>2014</b> , 30, 476-8		13
832	Protein engineering of Cas9 for enhanced function. <b>2014</b> , 546, 491-511		17
831	Characterization of genomic deletion efficiency mediated by clustered regularly interspaced short palindromic repeats (CRISPR)/Cas9 nuclease system in mammalian cells. <b>2014</b> , 289, 21312-24		236
830	Editing and investigating genomes with TALE and CRISPR/Cas systems: applications of artificial TALE and CRISPR-Cas systems. <b>2014</b> , 69, 119-20		1
829	Synthetic biology and therapeutic strategies for the degenerating brain: Synthetic biology approaches can transform classical cell and gene therapies, to provide new cures for neurodegenerative diseases. <b>2014</b> , 36, 979-90		16
828	Novel pre-clinical methodologies for pharmacokinetic drug-drug interaction studies: spotlight on "humanized" animal models. <b>2014</b> , 46, 475-93		24
827	Conditional targeting of <i>Ispd</i> using paired Cas9 nickase and a single DNA template in mice. <b>2014</b> , 4, 637-42		34
826	Therapy for mitochondrial genetic disease: are we at the thin end of the wedge?. <b>2014</b> , 29, 147-9		5
825	CRISPR-mediated direct mutation of cancer genes in the mouse liver. <b>2014</b> , 514, 380-4		521
824	Generating genetically modified mice using CRISPR/Cas-mediated genome engineering. <b>2014</b> , 9, 1956-68		352
823	The new CRISPR-Cas system: RNA-guided genome engineering to efficiently produce any desired genetic alteration in animals. <i>Transgenic Research</i> , <b>2014</b> , 23, 707-16	3.3	51
822	CRISPR bacon: a sizzling technique to generate genetically engineered pigs. <i>Biology of Reproduction</i> , <b>2014</b> , 91, 79	3.9	9

821	Targeted genome regulation and modification using transcription activator-like effectors. <b>2014</b> , 281, 4583-97	11
820	Genome modification by CRISPR/Cas9. <b>2014</b> , 281, 5186-93	86
819	A single blastocyst assay optimized for detecting CRISPR/Cas9 system-induced indel mutations in mice. <b>2014</b> , 14, 69	53
818	mRNA-based therapeutics--developing a new class of drugs. <b>2014</b> , 13, 759-80	882
817	Mouse models of human evolution. <b>2014</b> , 29, 75-80	13
816	Mouse knockout models for HIV-1 restriction factors. <b>2014</b> , 71, 3749-66	16
815	Glial development: the crossroads of regeneration and repair in the CNS. <b>2014</b> , 83, 283-308	134
814	Genome editing assessment using CRISPR Genome Analyzer (CRISPR-GA). <b>2014</b> , 30, 2968-70	107
813	TALEN-mediated gene mutations in monkeys. <b>2014</b> , 30, 379-380	2
812	Generation of a monkey with MECP2 mutations by TALEN-based gene targeting. <b>2014</b> , 30, 381-6	41
811	Homologous recombination in human embryonic stem cells using CRISPR/Cas9 nickase and a long DNA donor template. <b>2014</b> , 5, 258-60	59
810	Somatic mosaicism and allele complexity induced by CRISPR/Cas9 RNA injections in mouse zygotes. <b>2014</b> , 393, 3-9	218
809	The future of drug discovery: enabling technologies for enhancing lead characterization and profiling therapeutic potential. <b>2014</b> , 9, 847-58	9
808	A CRISPR view of development. <b>2014</b> , 28, 1859-72	174
807	Assisted Reproductive Technologies and Embryo Culture Methods for Farm Animals. <b>2014</b> , 581-638	5
806	Disrupting the male germ line to find infertility and contraception targets. <b>2014</b> , 75, 101-8	11
805	Translating the genomic revolution - targeted genome editing in primates. <b>2014</b> , 370, 2342-5	17
804	Development and applications of CRISPR-Cas9 for genome engineering. <i>Cell</i> , <b>2014</b> , 157, 1262-1278	56.2 3595

803	Nitric oxide signaling in the development and evolution of language and cognitive circuits. <b>2014</b> , 86, 77-87		3
802	Expanding the genetic editing tool kit: ZFNs, TALENs, and CRISPR-Cas9. <b>2014</b> , 124, 4154-61		252
801	One-step generation of myostatin gene knockout sheep via the CRISPR/Cas9 system. <b>2014</b> , 1, 2		48
800	New horizons in genome engineering of <i>Drosophila melanogaster</i> . <b>2014</b> , 89, 3-8		17
799	World of Reproductive Biology. <i>Biology of Reproduction</i> , <b>2014</b> , 90,		3-9
798	Genome editing of CXCR4 by CRISPR/cas9 confers cells resistant to HIV-1 infection. <i>Scientific Reports</i> , <b>2015</b> , 5, 15577	4-9	139
797	A marker-free system for highly efficient construction of vaccinia virus vectors using CRISPR Cas9. <b>2015</b> , 2, 15035		39
796	Generation of gene-modified goats targeting MSTN and FGF5 via zygote injection of CRISPR/Cas9 system. <i>Scientific Reports</i> , <b>2015</b> , 5, 13878	4-9	112
795	Efficient Generation of Myostatin Mutations in Pigs Using the CRISPR/Cas9 System. <i>Scientific Reports</i> , <b>2015</b> , 5, 16623	4-9	93
794	Efficient CRISPR/Cas9-mediated biallelic gene disruption and site-specific knockin after rapid selection of highly active sgRNAs in pigs. <i>Scientific Reports</i> , <b>2015</b> , 5, 13348	4-9	52
793	Production of Human Albumin in Pigs Through CRISPR/Cas9-Mediated Knockin of Human cDNA into Swine Albumin Locus in the Zygotes. <i>Scientific Reports</i> , <b>2015</b> , 5, 16705	4-9	62
792	Single-step generation of rabbits carrying a targeted allele of the tyrosinase gene using CRISPR/Cas9. <b>2015</b> , 64, 31-7		56
791	Human GPR42 is a transcribed multisite variant that exhibits copy number polymorphism and is functional when heterologously expressed. <i>Scientific Reports</i> , <b>2015</b> , 5, 12880	4-9	17
790	Generation of hypoxanthine phosphoribosyltransferase gene knockout rabbits by homologous recombination and gene trapping through somatic cell nuclear transfer. <i>Scientific Reports</i> , <b>2015</b> , 5, 16023	4-9	9
789	Fifty Years After Huxley: The Roadmap of Reproductive Medicine Revisited and Updated: The 2015 SRI-Pardi Distinguished Scientist Plenary Lecture of the Society for Reproductive Investigation. <b>2015</b> , 22, 1330-5		
788	Optimized production of transgenic buffalo embryos and offspring by cytoplasmic zygote injection. <b>2015</b> , 6, 44		9
787	CRISPR-Cas: From the Bacterial Adaptive Immune System to a Versatile Tool for Genome Engineering. <b>2015</b> , 54, 13508-14		17
786	[The return of germline gene therapy]. <b>2015</b> , 31, 691-5		2

785	Crystal Structure of Cas9. <b>2015</b> , 57, 96-103	
784	Target-specific variants of Flp recombinase mediate genome engineering reactions in mammalian cells. <b>2015</b> , 282, 3323-33	9
783	CRISPR-Cas: von einem bakteriellen adaptiven Immunsystem zu einem vielseitigen Werkzeug für die Gentechnik. <b>2015</b> , 127, 13710-13716	4
782	Minimizing off-Target Mutagenesis Risks Caused by Programmable Nucleases. <b>2015</b> , 16, 24751-71	24
781	From Gene Targeting to Genome Editing: Transgenic animals applications and beyond. <b>2015</b> , 87, 1323-48	32
780	Multiplexed CRISPR/Cas9 genome editing increases the efficacy of homologous-dependent repair of donor sequences in mammalian cells. <b>2015</b> , 111,	
779	Direct Injection of CRISPR/Cas9-Related mRNA into Cytoplasm of Parthenogenetically Activated Porcine Oocytes Causes Frequent Mosaicism for Indel Mutations. <b>2015</b> , 16, 17838-56	46
778	Novel Genome-Editing Tools to Model and Correct Primary Immunodeficiencies. <b>2015</b> , 6, 250	27
777	Roles of lncRNA in breast cancer. <b>2015</b> , 7, 94-108	69
776	[The CRISPR system can correct or modify the expression of genes responsible for hereditary diseases]. <b>2015</b> , 31, 1014-22	3
775	Genome-editing revolution: My whirlwind year with CRISPR. <b>2015</b> , 528, 469-71	28
774	Large genomic fragment deletions and insertions in mouse using CRISPR/Cas9. <b>2015</b> , 10, e0120396	94
773	Efficient Generation of Myostatin Knock-Out Sheep Using CRISPR/Cas9 Technology and Microinjection into Zygotes. <b>2015</b> , 10, e0136690	170
772	CRISPR/Cas faces the bioethics spotlight. <b>2015</b> , 58, 223-7	3
771	Animal Models of Human Pathology 2014. <b>2015</b> , 2015, 721348	
770	Scientists sound alarm over DNA editing of human embryos. <b>2015</b> ,	1
769	The CRISPR revolution and its impact on cancer research. <b>2015</b> , 145, w14230	10
768	Gaps and Future Challenges. <b>2015</b> , 669-672	1

767	Targeted genome editing in primate embryos. <b>2015</b> , 25, 767-8	27
766	Applications of the CRISPR-Cas9 system in cancer biology. <b>2015</b> , 15, 387-95	260
765	Somatic Genome Manipulation. <b>2015</b> ,	1
764	Genetics and ethics: a possible and necessary dialogue. <b>2015</b> , 6, 193-6	3
763	Generation of B cell-deficient pigs by highly efficient CRISPR/Cas9-mediated gene targeting. <b>2015</b> , 42, 437-44	36
762	Lung Stem Cells in the Epithelium and Vasculature. <b>2015</b> ,	
761	Engineered Nucleases Lead to Genome Editing Revolution in Rats. <b>2015</b> , 183-195	
760	Somatic Cell Nuclear Transfer and the Creation of Transgenic Large Animal Models. <b>2015</b> , 123-143	1
759	Genome editing of a CARG element in the mouse genome establishes its role in gene expression. <b>2015</b> , 35, 496-7	
758	The application of genome editing in studying hearing loss. <b>2015</b> , 327, 102-8	41
757	CRISPR-Cas9-mediated genome editing and guide RNA design. <b>2015</b> , 26, 501-10	41
756	Engineering Sequence-Specific DNA Binding Proteins for Antiviral Gene Editing. <b>2015</b> , 63-94	4
755	Epigenome engineering in cancer: fairytale or a realistic path to the clinic?. <b>2015</b> , 5, 22	56
754	CRISPR/Cas9 system as an innovative genetic engineering tool: Enhancements in sequence specificity and delivery methods. <b>2015</b> , 1856, 234-43	15
753	The societal opportunities and challenges of genome editing. <b>2015</b> , 16, 242	46
752	Genome Editing and Its Applications in Model Organisms. <b>2015</b> , 13, 336-44	38
751	Current and future delivery systems for engineered nucleases: ZFN, TALEN and RGEN. <b>2015</b> , 205, 120-7	76
750	CRISPR-Cas9 genome editing of a single regulatory element nearly abolishes target gene expression in mice—brief report. <b>2015</b> , 35, 312-5	39



749	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. <b>2015</b> , 25, 262-5		23
748	Efficient creation of an APOE knockout rabbit. <i>Transgenic Research</i> , <b>2015</b> , 24, 227-35	3.3	25
747	State of the ART: emerging genetic technologies in reproductive medicine are rapidly making real what once was science fiction—are we ready for it?. <b>2015</b> , 6, 8-13		
746	New research tools for urogenital schistosomiasis. <b>2015</b> , 211, 861-9		19
745	Exogenous enzymes upgrade transgenesis and genetic engineering of farm animals. <b>2015</b> , 72, 1907-29		25
744	Gene Targeting Through Homologous Recombination in Monkey Embryonic Stem Cells Using CRISPR/Cas9 System. <b>2015</b> , 24, 1147-9		5
743	Targeted Genome Editing Using Site-Specific Nucleases. <b>2015</b> ,		6
742	Efficiently editing the vaccinia virus genome by using the CRISPR-Cas9 system. <b>2015</b> , 89, 5176-9		67
741	Prospects for genetically modified non-human primate models, including the common marmoset. <b>2015</b> , 93, 110-5		63
740	Animal models in epilepsy research: legacies and new directions. <b>2015</b> , 18, 339-43		143
739	Efficient introgression of allelic variants by embryo-mediated editing of the bovine genome. <i>Scientific Reports</i> , <b>2015</b> , 5, 11735	4.9	30
738	What studies of macaque monkeys have told us about human color vision. <b>2015</b> , 296, 110-5		9
737	Germline transmission in transgenic Huntington’s disease monkeys. <b>2015</b> , 84, 277-85		26
736	Why bother using non-human primate models of cognitive disorders in translational research?. <b>2015</b> , 124, 123-9		29
735	Application of CRISPR/Cas9 for biomedical discoveries. <i>Cell and Bioscience</i> , <b>2015</b> , 5, 33	9.8	41
734	CRISPR-Cas9-Mediated Genetic Screening in Mice with Haploid Embryonic Stem Cells Carrying a Guide RNA Library. <b>2015</b> , 17, 221-32		70
733	Precision cancer mouse models through genome editing with CRISPR-Cas9. <b>2015</b> , 7, 53		61
732	The Hope for iPSC in Lung Stem Cell Therapy and Disease Modeling. <b>2015</b> , 113-143		0

731	CRISPR-Cas: New Tools for Genetic Manipulations from Bacterial Immunity Systems. <b>2015</b> , 69, 209-28	125
730	Efficient generation of gene-modified pigs via injection of zygote with Cas9/sgRNA. <i>Scientific Reports</i> , <b>2015</b> , 5, 8256	49 92
729	Genetically Modified Animals. <b>2015</b> , 1417-1440	
728	Generation of cell-type-specific gene mutations by expressing the sgRNA of the CRISPR system from the RNA polymerase II promoters. <b>2015</b> , 6, 689-692	7
727	Germline genome-editing research and its socioethical implications. <b>2015</b> , 21, 473-81	52
726	CRISPR-Cas9-mediated single-gene and gene family disruption in <i>Trypanosoma cruzi</i> . <b>2014</b> , 6, e02097-14	133
725	Modeling cancer processes with CRISPR-Cas9. <b>2015</b> , 33, 317-9	7
724	Prefrontal dysfunction and a monkey model of schizophrenia. <b>2015</b> , 31, 235-41	4
723	CRISPR/Cas9-mediated gene editing in human triprounuclear zygotes. <b>2015</b> , 6, 363-372	713
722	Applications of CRISPR-Cas9 mediated genome engineering. <b>2015</b> , 2, 11	24
721	Temperate and lytic bacteriophages programmed to sensitize and kill antibiotic-resistant bacteria. <b>2015</b> , 112, 7267-72	267
720	Brains, genes, and primates. <b>2015</b> , 86, 617-31	183
719	Targeted Germline Modifications in Rats Using CRISPR/Cas9 and Spermatogonial Stem Cells. <b>2015</b> , 10, 1828-35	78
718	The history and market impact of CRISPR RNA-guided nucleases. <b>2015</b> , 12, 85-90	26
717	Efficient CRISPR/Cas9-Mediated Genome Editing in Mice by Zygote Electroporation of Nuclease. <b>2015</b> , 200, 423-30	166
716	Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. <b>2015</b> , 16, 87	197
715	Application of gene-editing technologies to HIV-1. <b>2015</b> , 10, 123-7	14
714	Biotechnology. A prudent path forward for genomic engineering and germline gene modification. <b>2015</b> , 348, 36-8	413

713	Application of CRISPR/Cas9 genome editing to the study and treatment of disease. <b>2015</b> , 89, 1023-34	38
712	Intrinsic regulations in neural fate commitment. <b>2015</b> , 57, 109-20	19
711	Efficient inversions and duplications of mammalian regulatory DNA elements and gene clusters by CRISPR/Cas9. <b>2015</b> , 7, 284-98	89
710	The CRISPR-Cas immune system: biology, mechanisms and applications. <b>2015</b> , 117, 119-28	253
709	Functional disruption of the dystrophin gene in rhesus monkey using CRISPR/Cas9. <b>2015</b> , 24, 3764-74	163
708	Egg cell-specific promoter-controlled CRISPR/Cas9 efficiently generates homozygous mutants for multiple target genes in Arabidopsis in a single generation. <b>2015</b> , 16, 144	452
707	Eliminate mitochondrial diseases by gene editing in germ-line cells and embryos. <b>2015</b> , 6, 472-5	16
706	The 3rd symposium on animal models of primates - the application of non-human primates to basic research and translational medicine. <b>2015</b> , 42, 339-41	5
705	Human Induced Pluripotent Stem Cell NEUROG2 Dual Knockin Reporter Lines Generated by the CRISPR/Cas9 System. <b>2015</b> , 24, 2925-42	22
704	Modeling Disease In Vivo With CRISPR/Cas9. <b>2015</b> , 21, 609-621	77
703	Genetic Dissection of the Host Tropism of Human-Tropic Pathogens. <b>2015</b> , 49, 21-45	26
702	Strategies for precision modulation of gene expression by epigenome editing: an overview. <b>2015</b> , 8, 34	40
701	Dynamic Pluripotent Stem Cell States and Their Applications. <b>2015</b> , 17, 509-25	110
700	Combining CRISPR/Cas9 and rAAV Templates for Efficient Gene Editing. <b>2015</b> , 25, 287-96	19
699	CRISPR/Cas9: a powerful genetic engineering tool for establishing large animal models of neurodegenerative diseases. <b>2015</b> , 10, 35	77
698	βSynuclein and nonhuman primate models of Parkinson's disease. <b>2015</b> , 255, 38-51	23
697	Efficient gene-targeting in rat embryonic stem cells by CRISPR/Cas and generation of human kynurenine aminotransferase II (KAT II) knock-in rat. <i>Transgenic Research</i> , <b>2015</b> , 24, 991-1001	3-3 11
696	CRISPR/Cas9-mediated Dax1 knockout in the monkey recapitulates human AHC-HH. <b>2015</b> , 24, 7255-64	64

695	A Spotless Mind. <i>Cell</i> , <b>2015</b> , 163, 265	56.2	0
694	Selectively Constrained RNA Editing Regulation Crosstalks with piRNA Biogenesis in Primates. <b>2015</b> , 32, 3143-57		13
693	Targeted Porcine Genome Engineering with TALENs. <b>2015</b> , 17-33		
692	Highly efficient editing of the actinorhodin polyketide chain length factor gene in <i>Streptomyces coelicolor</i> M145 using CRISPR/Cas9-CodA(sm) combined system. <b>2015</b> , 99, 10575-85		92
691	Delivery and therapeutic applications of gene editing technologies ZFNs, TALENs, and CRISPR/Cas9. <b>2015</b> , 494, 180-94		78
690	Off-target Effects in CRISPR/Cas9-mediated Genome Engineering. <b>2015</b> , 4, e264		549
689	One-step generation of p53 gene biallelic mutant Cynomolgus monkey via the CRISPR/Cas system. <b>2015</b> , 25, 258-61		71
688	An efficient genotyping method for genome-modified animals and human cells generated with CRISPR/Cas9 system. <i>Scientific Reports</i> , <b>2014</b> , 4, 6420	4.9	175
687	Efficient and allele-specific genome editing of disease loci in human iPSCs. <i>Molecular Therapy</i> , <b>2015</b> , 23, 570-7	11.7	135
686	Gene therapy for HIV infection. <b>2015</b> , 15, 319-27		7
685	Closing the genotype-phenotype gap: emerging technologies for evolutionary genetics in ecological model vertebrate systems. <b>2015</b> , 37, 213-26		40
684	Generation of CRISPR/Cas9-mediated gene-targeted pigs via somatic cell nuclear transfer. <b>2015</b> , 72, 1175-84		167
683	Host Genetics: It Is Not Just the Virus, Stupid. <b>2016</b> , 169-179		2
682	Generating Mouse Models Using CRISPR-Cas9-Mediated Genome Editing. <b>2016</b> , 6, 39-66		22
681	Porcine Zygote Injection with Cas9/sgRNA Results in DMD-Modified Pig with Muscle Dystrophy. <b>2016</b> , 17,		54
680	Advantage of Genetic Modifications Using Genome Editing Technology in Stem Cells vs. Zygotes in Genetic Diseases. <b>2016</b> , 4,		
679	The Power of CRISPR-Cas9-Induced Genome Editing to Speed Up Plant Breeding. <b>2016</b> , 2016, 5078796		34
678	The Rise of CRISPR/Cas for Genome Editing in Stem Cells. <b>2016</b> , 2016, 8140168		18

677	Genome Engineering with TALE and CRISPR Systems in Neuroscience. <b>2016</b> , 7, 47	21
676	Survival and Evolution of CRISPR-Cas System in Prokaryotes and Its Applications. <b>2016</b> , 7, 375	20
675	CRISPR/Cas9: Implications for Modeling and Therapy of Neurodegenerative Diseases. <b>2016</b> , 9, 30	34
674	Twenty-First-Century Eugenics. <b>2016</b> ,	5
673	Germline Transgenesis. <b>2016</b> , 217-241	
672	[First use of CRISPR for gene therapy]. <b>2016</b> , 32, 1035-1037	2
671	Generation of an Oocyte-Specific Cas9 Transgenic Mouse for Genome Editing. <b>2016</b> , 11, e0154364	8
670	Generation of Knock-In Pigs Carrying Oct4-tdTomato Reporter through CRISPR/Cas9-Mediated Genome Engineering. <b>2016</b> , 11, e0146562	27
669	CRISPR-Cas9: Tool for Qualitative and Quantitative Plant Genome Editing. <b>2016</b> , 7, 1740	49
668	The promise of gene therapy. <b>2016</b> , 28, 132-5	4
667	On the Origin of CRISPR-Cas Technology: From Prokaryotes to Mammals. <b>2016</b> , 24, 811-820	92
666	CRISPR/Cas9: a breakthrough in generating mouse models for endocrinologists. <b>2016</b> , 57, R81-92	8
665	Current and future prospects for CRISPR-based tools in bacteria. <b>2016</b> , 113, 930-43	79
664	Generation of a Nonhuman Primate Model of Severe Combined Immunodeficiency Using Highly Efficient Genome Editing. <b>2016</b> , 19, 127-38	109
663	PhytoCRISP-Ex: a web-based and stand-alone application to find specific target sequences for CRISPR/CAS editing. <b>2016</b> , 17, 261	37
662	Efficient edition of the bovine PRNP prion gene in somatic cells and IVF embryos using the CRISPR/Cas9 system. <b>2016</b> , 86, 1886-1896.e1	43
661	Vesicles Cytoplasmic Injection: An Efficient Technique to Produce Porcine Transgene-Expressing Embryos. <b>2016</b> , 51, 501-8	1
660	Using CRISPR/Cas to study gene function and model disease in vivo. <b>2016</b> , 283, 3194-203	30

659 Transgenesis and Gene Replacement. **2016**, 512-516

658 Targeted disruption of sp7 and myostatin with CRISPR-Cas9 results in severe bone defects and more muscular cells in common carp. *Scientific Reports*, **2016**, 6, 22953 4.9 67

657 Efficient Production of Gene-Modified Mice using Staphylococcus aureus Cas9. *Scientific Reports*, **2016**, 6, 32565 4.9 24

656 Developing a de novo targeted knock-in method based on in utero electroporation into the mammalian brain. **2016**, 143, 3216-22 33

655 A non-inheritable maternal Cas9-based multiple-gene editing system in mice. *Scientific Reports*, **2016**, 6, 20011 4.9 25

654 Efficient generation of B2m-null pigs via injection of zygote with TALENs. *Scientific Reports*, **2016**, 6, 38854 22

653 Bibliography. 414-430

652 Generation of transgenic cynomolgus monkeys that express green fluorescent protein throughout the whole body. *Scientific Reports*, **2016**, 6, 24868 4.9 26

651 Efficient generation of GGTA1-null Diannan miniature pigs using TALENs combined with somatic cell nuclear transfer. **2016**, 14, 77 14

650 Efficient Generation of Gene-Modified Pigs Harboring Precise Orthologous Human Mutation via CRISPR/Cas9-Induced Homology-Directed Repair in Zygotes. **2016**, 37, 110-8 54

649 Designed nucleases for targeted genome editing. **2016**, 14, 448-62 39

648 Genome Editing in Human Pluripotent Stem Cells. **2016**, 2016, pdb.top086819 4

647 CRISPR/Cas9 for Human Genome Engineering and Disease Research. **2016**, 17, 131-54 65

646 Derivation and application of pluripotent stem cells for regenerative medicine. *Science China Life Sciences*, **2016**, 59, 576-83 8.5 2

645 Polq-Mediated End Joining Is Essential for Surviving DNA Double-Strand Breaks during Early Zebrafish Development. **2016**, 15, 707-714 28

644 Delivery of Cas9 Protein into Mouse Zygotes through a Series of Electroporation Dramatically Increases the Efficiency of Model Creation. **2016**, 43, 319-27 64

643 News Feature: Better models for brain disease. **2016**, 113, 5461-4 5

642 Highly Efficient and Rapid Detection of the Cleavage Activity of Cas9/gRNA via a Fluorescent Reporter. **2016**, 180, 655-667 10

641	Alzheimer's Disease Mechanisms and Emerging Roads to Novel Therapeutics. <b>2016</b> , 39, 57-79	73
640	Genome editing in pluripotent stem cells: research and therapeutic applications. <b>2016</b> , 473, 665-74	15
639	Introducing precise genetic modifications into human 3PN embryos by CRISPR/Cas-mediated genome editing. <b>2016</b> , 33, 581-588	182
638	The Application of CRISPR/Cas9 Technologies and Therapies in Stem Cells. <b>2016</b> , 2, 95-103	2
637	A CRISPR Path to Engineering New Genetic Mouse Models for Cardiovascular Research. <b>2016</b> , 36, 1058-75	33
636	In vivo whole brain, cellular and molecular imaging in nonhuman primate models of neuropathology. <b>2016</b> , 66, 104-18	12
635	In vitro CRISPR-Cas9-mediated efficient Ad5 vector modification. <b>2016</b> , 474, 395-399	2
634	CRISPR/Cas9 genome editing [hew and old ethical issues arising from a revolutionary technology. <b>2016</b> , 10, 139-159	22
633	Marmosets: A Neuroscientific Model of Human Social Behavior. <b>2016</b> , 90, 219-33	160
632	Induced Pluripotent Stem Cells Meet Genome Editing. <b>2016</b> , 18, 573-86	304
631	Neurobiology of social behavior abnormalities in autism and Williams syndrome. <b>2016</b> , 19, 647-655	107
630	CRISPR/Cas9 in Genome Editing and Beyond. <b>2016</b> , 85, 227-64	644
629	Applications of CRISPR Genome Engineering in Cell Biology. <b>2016</b> , 26, 875-888	58
628	Applications of CRISPR technologies in research and beyond. <b>2016</b> , 34, 933-941	544
627	Guide RNA engineering for versatile Cas9 functionality. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 9555-9564	20.1 44
626	CRISPR/Cas9-mediated somatic correction of a novel coagulator factor IX gene mutation ameliorates hemophilia in mouse. <b>2016</b> , 8, 477-88	102
625	Generation of RUNX3 knockout pigs using CRISPR/Cas9-mediated gene targeting. <b>2016</b> , 51, 970-978	21
624	CRISPR-Cas9 gene editing: Delivery aspects and therapeutic potential. <b>2016</b> , 244, 139-148	37

623	Genome Editing. <b>2016</b> ,	3
622	Large animal models of atherosclerosis--new tools for persistent problems in cardiovascular medicine. <b>2016</b> , 238, 257-66	46
621	Genome editing in nonhuman primates: approach to generating human disease models. <b>2016</b> , 280, 246-51	35
620	Translational research on influenza virus infection using a nonhuman primate model. <b>2016</b> , 66, 132-141	7
619	Concise Review: Patient-Derived Stem Cell Research for Monogenic Disorders. <b>2016</b> , 34, 44-54	11
618	Diversity matters - heterogeneity of dopaminergic neurons in the ventral mesencephalon and its relation to Parkinson's Disease. <b>2016</b> , 139 Suppl 1, 8-26	36
617	GRK5-Knockout Mice Generated by TALEN-Mediated Gene Targeting. <b>2016</b> , 27, 223-30	4
616	Using CRISPR-Cas9 Genome Editing to Enhance Cell Based Therapies for the Treatment of Diabetes Mellitus. <b>2016</b> , 127-147	1
615	Genetic Engineering in Stem Cell Biomanufacturing. <b>2016</b> , 1-25	
614	Opportunities and challenges in modeling human brain disorders in transgenic primates. <b>2016</b> , 19, 1123-30	74
613	Transcriptome analysis reveals rod/cone photoreceptor specific signatures across mammalian retinas. <b>2016</b> , 25, 4376-4388	27
612	At the interface of stem cell research and new technologies. <b>2016</b> , 280, 232-5	
611	Generation of porcine fetal fibroblasts expressing the tetracycline-inducible Cas9 gene by somatic cell nuclear transfer. <b>2016</b> , 14, 2527-33	4
610	TALEN-based generation of a cynomolgus monkey disease model for human microcephaly. <b>2016</b> , 26, 1048-61	28
609	Genome Editing with Targetable Nucleases. <b>2016</b> , 1-29	
608	CRISPR/cas9, a novel genomic tool to knock down microRNA in vitro and in vivo. <i>Scientific Reports</i> , <b>2016</b> , 6, 22312	4.9 127
607	In vivo Editing of the Human Mutant Rhodopsin Gene by Electroporation of Plasmid-based CRISPR/Cas9 in the Mouse Retina. <b>2016</b> , 5, e389	111
606	CRISPR-Cas9 technology and its application in haematological disorders. <b>2016</b> , 175, 208-225	15



605	Methods of Genome Engineering: a New Era of Molecular Biology. <b>2016</b> , 81, 662-77		5
604	Genome editing revolutionize the creation of genetically modified pigs for modeling human diseases. <b>2016</b> , 135, 1093-105		34
603	The present and future of genome editing in cancer research. <b>2016</b> , 135, 1083-92		9
602	Genome editing: the road of CRISPR/Cas9 from bench to clinic. <b>2016</b> , 48, e265		55
601	Delivery methods for site-specific nucleases: Achieving the full potential of therapeutic gene editing. <b>2016</b> , 244, 83-97		16
600	Generation and evaluation of Myostatin knock-out rabbits and goats using CRISPR/Cas9 system. <i>Scientific Reports</i> , <b>2016</b> , 6, 29855	4.9	54
599	A novel technique based on in vitro oocyte injection to improve CRISPR/Cas9 gene editing in zebrafish. <i>Scientific Reports</i> , <b>2016</b> , 6, 34555	4.9	16
598	Efficient production of cynomolgus monkeys with a toolbox of enhanced assisted reproductive technologies. <i>Scientific Reports</i> , <b>2016</b> , 6, 25888	4.9	6
597	New models: Gene-editing boom means changing landscape for primate work. <b>2016</b> , 22, 1200-1202		1
596	CRISPR-Cas9 mediated efficient PD-1 disruption on human primary T cells from cancer patients. <i>Scientific Reports</i> , <b>2016</b> , 6, 20070	4.9	188
595	CRISPR/Cas9 Targets Chicken Embryonic Somatic Cells In Vitro and In Vivo and generates Phenotypic Abnormalities. <i>Scientific Reports</i> , <b>2016</b> , 6, 34524	4.9	18
594	Antiestrogen Resistant Cell Lines Expressing Estrogen Receptor $\beta$ Mutations Upregulate the Unfolded Protein Response and are Killed by BHPI. <i>Scientific Reports</i> , <b>2016</b> , 6, 34753	4.9	38
593	Generation of transgenic marmosets expressing genetically encoded calcium indicators. <i>Scientific Reports</i> , <b>2016</b> , 6, 34931	4.9	60
592	Generation of human organs in pigs via interspecies blastocyst complementation. <b>2016</b> , 51 Suppl 2, 18-24		15
591	A Simple and Efficient Approach to Construct Mutant Vaccinia Virus Vectors. <b>2016</b> ,		5
590	Methods for creating transgenic primates. <b>2016</b> , 45, 291-2		2
589	Hematopoietic Stem Cells in Regenerative Medicine: Astray or on the Path?. <b>2016</b> , 43, 247-254		22
588	From the first human gene-editing to the birth of three-parent baby. <i>Science China Life Sciences</i> , <b>2016</b> , 59, 1341-1342	8.5	5

587	Biallelic modification of IL2RG leads to severe combined immunodeficiency in pigs. <b>2016</b> , 14, 74	36
586	Exome screening to identify loss-of-function mutations in the rhesus macaque for development of preclinical models of human disease. <b>2016</b> , 17, 170	7
585	Applications of CRISPR-Cas in its natural habitat. <b>2016</b> , 34, 30-36	5
584	Site-Directed Genome Knockout in Chicken Cell Line and Embryos Can Use CRISPR/Cas Gene Editing Technology. <b>2016</b> , 6, 1787-92	20
583	A Robust Single Primate Neuroepithelial Cell Clonal Expansion System for Neural Tube Development and Disease Studies. <b>2016</b> , 6, 228-42	16
582	From the RNA world to the clinic. <b>2016</b> , 352, 1417-20	168
581	Modeling craniofacial and skeletal congenital birth defects to advance therapies. <b>2016</b> , 25, R86-R93	6
580	Development and potential applications of CRISPR-Cas9 genome editing technology in sarcoma. <b>2016</b> , 373, 109-118	24
579	Multi-reporter selection for the design of active and more specific zinc-finger nucleases for genome editing. <b>2016</b> , 7, 10194	11
578	Efficient dual sgRNA-directed large gene deletion in rabbit with CRISPR/Cas9 system. <b>2016</b> , 73, 2959-68	62
577	Enhanced genome editing in mammalian cells with a modified dual-fluorescent surrogate system. <b>2016</b> , 73, 2543-63	29
576	Current Progress in Therapeutic Gene Editing for Monogenic Diseases. <i>Molecular Therapy</i> , <b>2016</b> , 24, 465-474	65
575	Beyond editing: repurposing CRISPR-Cas9 for precision genome regulation and interrogation. <b>2016</b> , 17, 5-15	538
574	Applications of CRISPR-Cas systems in neuroscience. <b>2016</b> , 17, 36-44	165
573	Using RNA as Molecular Code for Programming Cellular Function. <b>2016</b> , 5, 795-809	36
572	Cheating evolution: engineering gene drives to manipulate the fate of wild populations. <b>2016</b> , 17, 146-59	283
571	Emerging landscape of cell penetrating peptide in reprogramming and gene editing. <b>2016</b> , 226, 124-37	45
570	Interspecies chimeric complementation for the generation of functional human tissues and organs in large animal hosts. <i>Transgenic Research</i> , <b>2016</b> , 25, 375-84	33 14

569	Going Germline: Mitochondrial Replacement as a Guide to Genome Editing. <i>Cell</i> , <b>2016</b> , 164, 832-5	56.2	14
568	Spermatogenic Cell-Specific Gene Mutation in Mice via CRISPR-Cas9. <b>2016</b> , 43, 289-96		4
567	A Broad Overview and Review of CRISPR-Cas Technology and Stem Cells. <b>2016</b> , 2, 9-20		25
566	Chemical Biology Approaches to Genome Editing: Understanding, Controlling, and Delivering Programmable Nucleases. <b>2016</b> , 23, 57-73		35
565	A mouse model for adult cardiac-specific gene deletion with CRISPR/Cas9. <b>2016</b> , 113, 338-43		115
564	Origins of Programmable Nucleases for Genome Engineering. <b>2016</b> , 428, 963-89		173
563	Sites of retroviral DNA integration: From basic research to clinical applications. <b>2016</b> , 51, 26-42		22
562	Genome editing in <i>Ustilago maydis</i> using the CRISPR-Cas system. <b>2016</b> , 89, 3-9		142
561	Advances in therapeutic CRISPR/Cas9 genome editing. <b>2016</b> , 168, 15-21		130
560	Application of CRISPR-mediated genome engineering in cancer research. <b>2017</b> , 387, 10-17		11
559	Germ line genome editing in clinics: the approaches, objectives and global society. <b>2017</b> , 16, 46-56		44
558	CRISPR-Cas9 technology: applications and human disease modelling. <b>2017</b> , 16, 4-12		25
557	CRISPR and the Rebirth of Synthetic Biology. <b>2017</b> , 23, 351-363		16
556	Primate embryogenesis predicts the hallmarks of human naïve pluripotency. <b>2017</b> , 144, 175-186		77
555	Towards a CRISPR view of early human development: applications, limitations and ethical concerns of genome editing in human embryos. <b>2017</b> , 144, 3-7		30
554	Single Cas9 nickase induced generation of NRAMP1 knockin cattle with reduced off-target effects. <b>2017</b> , 18, 13		119
553	Ethical issues in research. <b>2017</b> , 43, 107-114		4
552	Transcriptome analyses of rhesus monkey preimplantation embryos reveal a reduced capacity for DNA double-strand break repair in primate oocytes and early embryos. <b>2017</b> , 27, 567-579		40

551	De novo DNA methylation during monkey pre-implantation embryogenesis. <b>2017</b> , 27, 526-539	29
550	Social Decision-Making and the Brain: A Comparative Perspective. <b>2017</b> , 21, 265-276	58
549	An AANAT/ASMT transgenic animal model constructed with CRISPR/Cas9 system serving as the mammary gland bioreactor to produce melatonin-enriched milk in sheep. <b>2017</b> , 63, e12406	22
548	CRISPR/Cas9-mediated gene editing in human zygotes using Cas9 protein. <b>2017</b> , 292, 525-533	137
547	China's landscape in regenerative medicine. <b>2017</b> , 124, 78-94	13
546	Gene Editing With CRISPR/Cas9 RNA-Directed Nuclease. <b>2017</b> , 120, 876-894	49
545	Non-human Primate Models for Brain Disorders - Towards Genetic Manipulations via Innovative Technology. <b>2017</b> , 33, 247-250	11
544	Therapeutic genome engineering via CRISPR-Cas systems. <b>2017</b> , 9, e1380	17
543	CRISPR-Cas9-mediated genome editing in one blastomere of two-cell embryos reveals a novel Tet3 function in regulating neocortical development. <b>2017</b> , 27, 815-829	23
542	A CRISPR toolbox to study virus-host interactions. <b>2017</b> , 15, 351-364	99
541	Animal models of atherosclerosis. <b>2017</b> , 816, 3-13	241
540	Combining Genetic and Developmental Methods to Study Musculoskeletal Evolution in Primates. 175-204	
539	CRISPR Editing in Biological and Biomedical Investigation. <b>2017</b> , 118, 4152-4162	5
538	Quantitative assessment of timing, efficiency, specificity and genetic mosaicism of CRISPR/Cas9-mediated gene editing of hemoglobin beta gene in rhesus monkey embryos. <b>2017</b> , 26, 2678-2689 <sup>17</sup>	
537	Cellular function reinstatement of offspring red blood cells cloned from the sickle cell disease patient blood post CRISPR genome editing. <b>2017</b> , 10, 119	15
536	Homology-mediated end joining-based targeted integration using CRISPR/Cas9. <b>2017</b> , 27, 801-814	165
535	Non-viral and viral delivery systems for CRISPR-Cas9 technology in the biomedical field. <i>Science China Life Sciences</i> , <b>2017</b> , 60, 458-467	8.5 33
534	Safety and Efficacy of Gene-Based Therapeutics for Inherited Disorders. <b>2017</b> ,	0

533	Optimization of a CRISPR/Cas9-mediated Knock-in Strategy at the Porcine Rosa26 Locus in Porcine Foetal Fibroblasts. <i>Scientific Reports</i> , <b>2017</b> , 7, 3036	4.9	25
532	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. <b>2017</b> , 117, 9874-9906		287
531	Genome Editing in Animals. <b>2017</b> ,		1
530	Progress and Application of CRISPR/Cas Technology in Biological and Biomedical Investigation. <b>2017</b> , 118, 3061-3071		6
529	One-step generation of complete gene knockout mice and monkeys by CRISPR/Cas9-mediated gene editing with multiple sgRNAs. <b>2017</b> , 27, 933-945		110
528	Naming CRISPR alleles: endonuclease-mediated mutation nomenclature across species. <b>2017</b> , 28, 367-376		6
527	Engineered CRISPR Systems for Next Generation Gene Therapies. <b>2017</b> , 6, 1614-1626		24
526	The Mouse Lemur, a Genetic Model Organism for Primate Biology, Behavior, and Health. <b>2017</b> , 206, 651-664		31
525	The Hope and Hype of CRISPR-Cas9 Genome Editing: A Review. <b>2017</b> , 2, 914-919		30
524	Optimizing the DNA Donor Template for Homology-Directed Repair of Double-Strand Breaks. <b>2017</b> , 7, 53-60		73
523	Purified Cas9 Fusion Proteins for Advanced Genome Manipulation. <b>2017</b> , 1, 1600052		9
522	The Transmembrane Serine Protease HAT-like 4 Is Important for Epidermal Barrier Function to Prevent Body Fluid Loss. <i>Scientific Reports</i> , <b>2017</b> , 7, 45262	4.9	9
521	Precision Genome Editing for Systems Biology [A Temporal Perspective. <b>2017</b> , 367-392		
520	Applications of CRISPR genome editing technology in drug target identification and validation. <b>2017</b> , 12, 541-552		13
519	Rhesus iPSC Safe Harbor Gene-Editing Platform for Stable Expression of Transgenes in Differentiated Cells of All Germ Layers. <i>Molecular Therapy</i> , <b>2017</b> , 25, 44-53	11.7	15
518	Cornerstones of CRISPR-Cas in drug discovery and therapy. <b>2017</b> , 16, 89-100		274
517	Gene delivery ability of polyethylenimine and polyethylene glycol dual-functionalized nanographene oxide in 11 different cell lines. <b>2017</b> , 4, 170822		13
516	Engineering nucleic acid structures for programmable molecular circuitry and intracellular biocomputation. <b>2017</b> , 9, 1056-1067		186

515	Genome Editing in Neurosciences. <b>2017</b> ,		2
514	Transabdominal ultrasound-guided multifetal pregnancy reduction in 10 cases of monkeys. <i>Biology of Reproduction</i> , <b>2017</b> , 97, 758-761	3.9	1
513	Nonhuman Primates: A Vital Model for Basic and Applied Research on Female Reproduction, Prenatal Development, and Women's Health. <b>2017</b> , 58, 281-294		23
512	Efficient generation of the mouse model with a defined point mutation through haploid cell-mediated gene editing. <b>2017</b> , 44, 461-463		8
511	Delivery strategies of the CRISPR-Cas9 gene-editing system for therapeutic applications. <b>2017</b> , 266, 17-26		248
510	Correction of a pathogenic gene mutation in human embryos. <b>2017</b> , 548, 413-419		567
509	Human Germline Genome Editing. <b>2017</b> , 101, 167-176		105
508	Nuclear deterrents: Intrinsic regulators of IL-1 $\beta$ induced effects on hippocampal neurogenesis. <b>2017</b> , 66, 394-412		23
507	Experimental animal models of Parkinson's disease: A transition from assessing symptomatology to $\beta$ synuclein targeted disease modification. <b>2017</b> , 298, 172-179		33
506	Genome editing in crop improvement: Present scenario and future prospects. <b>2017</b> , 31, 453-559		42
505	Noninheritable Maternal Factors Useful for Genetic Manipulation in Mammals. <b>2017</b> , 63, 495-510		2
504	Cryopreservation of cynomolgus macaque ( <i>Macaca fascicularis</i> ) sperm with glycerol and ethylene glycol, and its effect on sperm-specific ion channels - CatSper and Hv1. <b>2017</b> , 104, 37-42		8
503	Genome Editing: The Recent History and Perspective in Cardiovascular Diseases. <b>2017</b> , 70, 2808-2821		14
502	Cre-dependent Cas9-expressing pigs enable efficient in vivo genome editing. <b>2017</b> , 27, 2061-2071		37
501	Precision Medicine, CRISPR, and Genome Engineering. <b>2017</b> ,		0
500	From Reductionism to Holism: Toward a More Complete View of Development Through Genome Engineering. <b>2017</b> , 1016, 45-74		5
499	The evolution of cortical development: the synapsid-diapsid divergence. <b>2017</b> , 144, 4061-4077		13
498	A Novel Rat Model of Nonalcoholic Fatty Liver Disease Constructed Through CRISPR/Cas-Based Hydrodynamic Injection. <b>2017</b> , 59, 365-373		10

497	CRISPR-Cas9-Mediated Gene Editing in Mouse Spermatogonial Stem Cells. <b>2017</b> , 1622, 293-305		7
496	Tailoring non-viral delivery vehicles for transporting genome-editing tools. <b>2017</b> , 60, 511-515		10
495	CRISPR/Cas9, a universal tool for genomic engineering. <b>2017</b> , 7, 440-458		3
494	CRISPR/Cas9 in zebrafish: an efficient combination for human genetic diseases modeling. <b>2017</b> , 136, 1-12		68
493	Artificial Virus Delivers CRISPR-Cas9 System for Genome Editing of Cells in Mice. <b>2017</b> , 11, 95-111		161
492	CRISPR-Based Technologies for the Manipulation of Eukaryotic Genomes. <i>Cell</i> , <b>2017</b> , 168, 20-36	56.2	545
491	In vivo and in vitro disease modeling with CRISPR/Cas9. <b>2017</b> , 16, 13-24		11
490	Genome editing in cardiovascular diseases. <b>2017</b> , 14, 11-20		57
489	CRISPR/Cas9 Immune System as a Tool for Genome Engineering. <b>2017</b> , 65, 233-240		59
488	Application of viral vectors to the study of neural connectivities and neural circuits in the marmoset brain. <b>2017</b> , 77, 354-372		7
487	The organic anion transporting polypeptide 1a5 is a pivotal transporter for the uptake of microcystin-LR by gonadotropin-releasing hormone neurons. <b>2017</b> , 182, 1-10		21
486	Nutrigenomics in the modern era. <b>2017</b> , 76, 265-275		46
485	RAPID COMMUNICATION: Generation of knockout sheep via the CRISPR/Cas9 system. <b>2017</b> , 95, 2019-2024		20
484	Natural Killer Cells Promote Fetal Development through the Secretion of Growth-Promoting Factors. <b>2017</b> , 47, 1100-1113.e6		138
483	Assisted reproductive technologies in the common marmoset: an integral species for developing nonhuman primate models of human diseases. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 277-287	3.9	14
482	CRISPR in Animals and Animal Models. <b>2017</b> , 152, 95-114		26
481	Paving the road for biomedicine: genome editing and stem cells in primates. <b>2017</b> , 4, 543-549		3
480	[CRISPR-Cas9, germinal cells and human embryo]. <b>2017</b> , 211, 207-213		1

479 References. **2017**, 317-344

478	Genetically Modified Animal Models. <b>2017</b> , 703-726	1
477	How to Train a Cell-Cutting-Edge Molecular Tools. <b>2017</b> , 5, 12	7
476	Regulatory and Scientific Advancements in Gene Therapy: State-of-the-Art of Clinical Applications and of the Supporting European Regulatory Framework. <b>2017</b> , 4, 182	31
475	Mechanisms of Long Non-Coding RNAs in the Assembly and Plasticity of Neural Circuitry. <b>2017</b> , 11, 76	29
474	The Impact of CRISPR/Cas9 Technology on Cardiac Research: From Disease Modelling to Therapeutic Approaches. <b>2017</b> , 2017, 8960236	19
473	Modeling Cancer Using CRISPR-Cas9 Technology. <b>2017</b> , 905-924	
472	A novel rapid and reproducible flow cytometric method for optimization of transfection efficiency in cells. <b>2017</b> , 12, e0182941	9
471	The therapeutic landscape of HIV-1 via genome editing. <b>2017</b> , 14, 32	18
470	CRISPR/Cas9 Technology: Applications and Human Disease Modeling. <b>2017</b> , 152, 23-48	10
469	[The beginning of human life: ethical and legal perspectives in the context of biotechnological progress]. <b>2017</b> , 33, e00071816	0
468	Animal Models of Atherosclerosis. <b>2017</b> , 205-217	3
467	The Smart Programmable CRISPR Technology: A Next Generation Genome Editing Tool for Investigators. <b>2017</b> , 18, 1653-1663	7
466	Superovulatory responses in cynomolgus monkeys ( <i>Macaca fascicularis</i> ) depend on the interaction between donor status and superovulation method used. <b>2017</b> , 63, 149-155	5
465	Efficient Generation of Genome-Modified Mice Using <i>Campylobacter jejuni</i> -Derived CRISPR/Cas. <b>2017</b> , 18,	4
464	CRISPR-Cas9: a promising tool for gene editing on induced pluripotent stem cells. <b>2017</b> , 32, 42-61	35
463	Wisp2 disruption represses Cxcr4 expression and inhibits BMSCs homing to injured liver. <b>2017</b> , 8, 98823-98836	1
462	Creating animal models, why not use the Chinese tree shrew ( <i>Tupaia</i> )?. <b>2017</b> , 38, 118-126	59



461	Precision Medicine and Challenges in Research and Clinical Implementation. <b>2017</b> , 717-732		1
460	Diagnosis and therapy with CRISPR advanced CRISPR based tools for point of care diagnostics and early therapies. <b>2018</b> , 656, 22-29		19
459	Non-viral delivery systems for CRISPR/Cas9-based genome editing: Challenges and opportunities. <b>2018</b> , 171, 207-218		180
458	CRISPR-Cas9: A Precise Approach to Genome Engineering. <b>2018</b> , 52, 701-707		3
457	Modeling autism in non-human primates: Opportunities and challenges. <b>2018</b> , 11, 686-694		21
456	Cloning of Macaque Monkeys by Somatic Cell Nuclear Transfer. <i>Cell</i> , <b>2018</b> , 172, 881-887.e7	56.2	153
455	The behavioral genetics of nonhuman primates: Status and prospects. <b>2018</b> , 165 Suppl 65, 23-36		14
454	Exosome-Liposome Hybrid Nanoparticles Deliver CRISPR/Cas9 System in MSCs. <b>2018</b> , 5, 1700611		212
453	TALEN-mediated gene targeting in porcine spermatogonia. <b>2018</b> , 85, 250-261		10
452	Multiple homologous genes knockout (KO) by CRISPR/Cas9 system in rabbit. <b>2018</b> , 647, 261-267		13
451	CRISPR/Cas9: A tool for immunological research. <b>2018</b> , 48, 576-583		12
450	Production of Wilson Disease Model Rabbits with Homology-Directed Precision Point Mutations in the ATP7B Gene Using the CRISPR/Cas9 System. <i>Scientific Reports</i> , <b>2018</b> , 8, 1332	4.9	17
449	A simple and rapid approach to develop recombinant avian herpesvirus vectored vaccines using CRISPR/Cas9 system. <b>2018</b> , 36, 716-722		28
448	Generation of a precise Oct4-hrGFP knockin cynomolgus monkey model via CRISPR/Cas9-assisted homologous recombination. <b>2018</b> , 28, 383-386		29
447	Generation of knock-in cynomolgus monkey via CRISPR/Cas9 editing. <b>2018</b> , 28, 379-382		29
446	Responsible innovation in human germline gene editing: Background document to the recommendations of ESHG and ESHRE. <b>2018</b> , 26, 450-470		28
445	Use of CRISPR/Cas9 gene-editing tools for developing models in drug discovery. <b>2018</b> , 23, 519-533		23
444	The Ethics of Reproductive Genetics. <b>2018</b> ,		

443	Csy4-based vector system enables conditional chimeric gene editing in zebrafish without interrupting embryogenesis. <b>2018</b> , 10, 586-588	6
442	Non-human primate models of PD to test novel therapies. <b>2018</b> , 125, 291-324	26
441	CRISPR-Cas9 system-driven site-specific selection pressure on Herpes simplex virus genomes. <b>2018</b> , 244, 286-295	11
440	Use of CRISPR/Cas9 to model brain diseases. <b>2018</b> , 81, 488-492	15
439	CRISPR-engineered genome editing for the next generation neurological disease modeling. <b>2018</b> , 81, 459-467	8
438	Gene therapy and editing: Novel potential treatments for neuronal channelopathies. <b>2018</b> , 132, 108-117	20
437	Generation of Genomic Deletions (of Rig-I GENE) in Goat Primary Cell Culture Using CRISPR/CAS9 Method. <b>2018</b> , 29, 142-152	2
436	Optogenetics: A Roadmap. <b>2018</b> ,	3
435	Optophysiology and Behavior in Rodents and Nonhuman Primates. <b>2018</b> , 199-217	
434	Behavioral Manipulation by Optogenetics in the Nonhuman Primate. <b>2018</b> , 24, 526-539	13
433	Multiplexed sgRNA Expression Allows Versatile Single Nonrepetitive DNA Labeling and Endogenous Gene Regulation. <b>2018</b> , 7, 176-186	21
432	Timing of CRISPR/Cas9-related mRNA microinjection after activation as an important factor affecting genome editing efficiency in porcine oocytes. <b>2018</b> , 108, 29-38	23
431	Genetic engineering in nonhuman primates for human disease modeling. <b>2018</b> , 63, 125-131	18
430	Effects of voltage strength during electroporation on the development and quality of in vitro-produced porcine embryos. <b>2018</b> , 53, 313-318	21
429	Modeling Cancer in the CRISPR Era. <b>2018</b> , 2, 111-131	10
428	Investigation of brain science and neurological/psychiatric disorders using genetically modified non-human primates. <b>2018</b> , 50, 1-6	30
427	Progress in developing transgenic monkey model for Huntington's disease. <b>2018</b> , 125, 401-417	12
426	CRISPR editing in biological and biomedical investigation. <b>2018</b> , 233, 3875-3891	15

425	Responsible innovation in human germline gene editing. Background document to the recommendations of ESHG and ESHRE. <b>2018</b> , 2018, hox024	5
424	Knockout of microRNA-26a promotes lung development and pulmonary surfactant synthesis. <b>2018</b> , 17, 5988-5995	6
423	CRISPR/Cas9-Facilitated Chromosome Engineering to Model Human Chromosomal Alterations. <b>2018</b> ,	0
422	Bibliography. 425-441	
421	Double-Musclcd Phenotype in Mutant Sheep Directed by the CRISPRCas9 System. <b>2018</b> , 07,	5
420	Phosphate Lock Residues of <i>Acidothermus cellulolyticus</i> Cas9 Are Critical to Its Substrate Specificity. <b>2018</b> , 7, 2908-2917	3
419	Cytokine-Based Generation of CD49aEomes Natural Killer Cell Subsets. <b>2018</b> , 9, 2126	8
418	Crosstalk between MicroRNAs and Peroxisome Proliferator-Activated Receptors and Their Emerging Regulatory Roles in Cardiovascular Pathophysiology. <b>2018</b> , 2018, 8530371	14
417	Gene Editing Technologies and Use of Recombinant/Synthetic Nucleic Acids in Laboratory Animals. <b>2018</b> , 23, 168-179	
416	Genetically modified pigs are protected from classical swine fever virus. <b>2018</b> , 14, e1007193	40
415	Emerging Concepts and Techniques. <b>2018</b> , 729-743	
414	Genetic Mouse Models for Female Reproductive Toxicology Studies. <b>2018</b> , 470-494	
413	Overcoming the Undesirable CRISPR-Cas9 Expression in Gene Correction. <b>2018</b> , 13, 699-709	10
412	Editing porcine IGF2 regulatory element improved meat production in Chinese Bama pigs. <b>2018</b> , 75, 4619-4628 <sub>32</sub>	
411	Functional Analyses of Cassette Chromosome Recombinase C2 ( <i>CcrC2</i> ) and Its Use in Eliminating Methicillin Resistance by Combining CRISPR-Cas9. <b>2018</b> , 7, 2590-2599	4
410	CRISPR/Cas9 gene-editing: Research technologies, clinical applications and ethical considerations. <b>2018</b> , 42, 487-500	22
409	Apolipoprotein E deficiency accelerates atherosclerosis development in miniature pigs. <b>2018</b> , 11,	27
408	CRISPR/Cas9 System: A Bacterial Tailor for Genomic Engineering. <b>2018</b> , 2018, 3797214	12

407	Human-Monkey Chimeras for Modeling Human Disease: Opportunities and Challenges. <b>2018</b> , 27, 1599-1604	6
406	Editing the Genome Ex Vivo Stem Cell Therapy. <b>2018</b> , 4, 338-345	1
405	Disruption of PD-1 Enhanced the Anti-tumor Activity of Chimeric Antigen Receptor T Cells Against Hepatocellular Carcinoma. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 1118	5.6 82
404	Delivery approaches for CRISPR/Cas9 therapeutics in vivo: advances and challenges. <b>2018</b> , 15, 905-913	54
403	Unraveling of Central Nervous System Disease Mechanisms Using CRISPR Genome Manipulation. <b>2018</b> , 10, 1179573518787469	6
402	Single-cell RNA-sequencing reveals the existence of naive and primed pluripotency in pre-implantation rhesus monkey embryos. <b>2018</b> , 28, 1481-1493	16
401	( ) is essential for preimplantation embryo development. <b>2018</b> , 7,	16
400	Ethical issues in genetic modification and why application matters. <b>2018</b> , 52, 7-12	9
399	Delivering CRISPR: a review of the challenges and approaches. <b>2018</b> , 25, 1234-1257	452
398	Generation of genetically-engineered animals using engineered endonucleases. <i>Archives of Pharmacal Research</i> , <b>2018</b> , 41, 885-897	6.1 16
397	Deficiency of PRKD2 triggers hyperinsulinemia and metabolic disorders. <b>2018</b> , 9, 2015	8
396	In Situ Gene Therapy via AAV-CRISPR-Cas9-Mediated Targeted Gene Regulation. <i>Molecular Therapy</i> , <b>2018</b> , 26, 1818-1827	11.7 73
395	Multifunctional nucleic acid nanostructures for gene therapies. <b>2018</b> , 11, 5017-5027	19
394	In vivo genome editing targeted towards the female reproductive system. <i>Archives of Pharmacal Research</i> , <b>2018</b> , 41, 898-910	6.1 7
393	Genome Editing Redefines Precision Medicine in the Cardiovascular Field. <b>2018</b> , 2018, 4136473	7
392	No off-target mutations in functional genome regions of a CRISPR/Cas9-generated monkey model of muscular dystrophy. <b>2018</b> , 293, 11654-11658	20
391	Myoediting: Toward Prevention of Muscular Dystrophy by Therapeutic Genome Editing. <b>2018</b> , 98, 1205-1240	18
390	CRISPR Genome Editing in Mice. 165-180	

389	Biomedical applications of mRNA nanomedicine. <b>2018</b> , 11, 5281-5309	47
388	Personalized gene and cell therapy for Duchenne Muscular Dystrophy. <b>2018</b> , 28, 803-824	27
387	CRISPR/Cas9-based In Vivo Models of Cancer. 315-336	1
386	Of Men and Mice: Modeling the Fragile X Syndrome. <b>2018</b> , 11, 41	64
385	CRISPR/Cas9 Technology as an Emerging Tool for Targeting Amyotrophic Lateral Sclerosis (ALS). <b>2018</b> , 19,	9
384	Generating CRISPR/Cas9-Derived Mutant Mice by Zygote Cytoplasmic Injection Using an Automatic Microinjector. <b>2018</b> , 1,	8
383	CRISPR/Cascade 9-Mediated Genome Editing-Challenges and Opportunities. <b>2018</b> , 9, 240	36
382	Generation of GHR-modified pigs as Laron syndrome models via a dual-sgRNAs/Cas9 system and somatic cell nuclear transfer. <b>2018</b> , 16, 41	9
381	A method for expansion of T cells from cynomolgus monkey ( <i>Macaca fascicularis</i> ). <b>2018</b> , 54, 549-554	
380	SIRT6 deficiency results in developmental retardation in cynomolgus monkeys. <b>2018</b> , 560, 661-665	91
379	Efficient generation of goats with defined point mutation (I397V) in GDF9 through CRISPR/Cas9. <b>2018</b> , 30, 307-312	20
378	Applications and advances of CRISPR-Cas9 in cancer immunotherapy. <b>2019</b> , 56, 4-9	27
377	The advances in CRISPR technology and 3D genome. <b>2019</b> , 90, 54-61	6
376	Primate stem cells: bridge the translation from basic research to clinic application. <i>Science China Life Sciences</i> , <b>2019</b> , 62, 12-21	8.5 4
375	Functional and Proteomic Analysis of Virulence Upon Loss of Its Native Cas9 Nuclease. <b>2019</b> , 10, 1967	7
374	The role of MeCP2 in learning and memory. <b>2019</b> , 26, 343-350	6
373	A guide to Mycobacterium mutagenesis. <b>2019</b> , 286, 3757-3774	8
372	Site-specific integration of rotavirus VP6 gene in rabbit $\beta$ -casein locus by CRISPR/Cas9 system. <b>2019</b> , 55, 586-597	4

371	CRISPR-Cas9 Probing of Infectious Diseases and Genetic Disorders. <b>2019</b> , 86, 1131-1135		1
370	Genome Editing in Farm Animals. <b>2019</b> , 455-461		
369	CRISPR-Cas9 system: A new-fangled dawn in gene editing. <b>2019</b> , 232, 116636		62
368	Nanotechnology based CRISPR/Cas9 system delivery for genome editing: Progress and prospect. <b>2019</b> , 12, 2437-2450		24
367	Production of non-mosaic genome edited porcine embryos by injection of CRISPR/Cas9 into germinal vesicle oocytes. <b>2019</b> , 46, 335-342		6
366	Recent advances in developing and applying biosensors for synthetic biology. <b>2019</b> , 3, 042002		6
365	Tuning the Reactivity of Cyclopropenes from Living Ring-Opening Metathesis Polymerization (ROMP) to Single-Addition and Alternating ROMP. <b>2019</b> , 58, 17771-17776		14
364	Methods and applications of CRISPR/Cas system for genome editing in stem cells. <b>2019</b> , 8, 33-41		16
363	High-fidelity endonuclease variant HypaCas9 facilitates accurate allele-specific gene modification in mouse zygotes. <b>2019</b> , 2, 371		19
362	Gene Delivery to Nonhuman Primate Preimplantation Embryos Using Recombinant Adeno-Associated Virus. <b>2019</b> , 6, 1900440		4
361	Attitudes Toward Hypothetical Uses of Gene-Editing Technologies in Parents of People with Autosomal Aneuploidies. <b>2019</b> , 2, 324-330		6
360	Dissecting primate early post-implantation development using long-term in vitro embryo culture. <b>2019</b> , 366,		65
359	Block Polymer Micelles Enable CRISPR/Cas9 Ribonucleoprotein Delivery: Physicochemical Properties Affect Packaging Mechanisms and Gene Editing Efficiency. <b>2019</b> , 52, 8197-8206		28
358	Development of genetically modified nonhuman primates toward models for translational research. <b>2019</b> , 1, 15-23		1
357	Efficient generation of Knock-in/Knock-out marmoset embryo via CRISPR/Cas9 gene editing. <i>Scientific Reports</i> , <b>2019</b> , 9, 12719	4.9	25
356	Generation of genetically modified mice using SpCas9-NG engineered nuclease. <i>Scientific Reports</i> , <b>2019</b> , 9, 12878	4.9	11
355	Generation of pigs with a Belgian Blue mutation in MSTN using CRISPR/Cpf1-assisted ssODN-mediated homologous recombination. <b>2019</b> , 18, 1329-1336		9
354	Cancer therapy with a CRISPR-assisted telomerase-activating gene expression system. <b>2019</b> , 38, 4110-4124		13

353	Directed evolution studies of a thermophilic Type II-C Cas9. <b>2019</b> , 616, 265-288	3
352	Genome editing in large animals: current status and future prospects. <b>2019</b> , 6, 402-420	29
351	Generating Recombinant Avian Herpesvirus Vectors with CRISPR/Cas9 Gene Editing. <b>2019</b> ,	7
350	BMAL1 knockout macaque monkeys display reduced sleep and psychiatric disorders. <b>2019</b> , 6, 87-100	47
349	Cloning of a gene-edited macaque monkey by somatic cell nuclear transfer. <b>2019</b> , 6, 101-108	36
348	A chemical approach for global protein knockdown from mice to non-human primates. <b>2019</b> , 5, 10	64
347	Neural Circuits Underlying Rodent Sociality: A Comparative Approach. <b>2019</b> , 43, 211-238	7
346	Macaque monkeys as a non-human primate circadian model. <b>2019</b> , 6, 302-303	2
345	Editing the Central Nervous System Through CRISPR/Cas9 Systems. <b>2019</b> , 12, 110	20
344	i-GONAD: A method for generating genome-edited animals without ex vivo handling of embryos. <b>2019</b> , 61, 306-315	10
343	Delivery of CRISPR/Cas9 for therapeutic genome editing. <b>2019</b> , 21, e3107	62
342	Development of CRISPR-Cas systems for genome editing and beyond. <b>2019</b> , 52,	57
341	Chimera Research. <b>2019</b> ,	
340	Human-Monkey Chimeras for Modeling Human Disease: Opportunities and Challenges. <b>2019</b> , 2005, 221-231	5
339	Construction of a sensitive pyrogen-testing cell model by site-specific knock-in of multiple genes. <b>2019</b> , 116, 2652-2661	
338	Anephrogenic phenotype induced by SALL1 gene knockout in pigs. <i>Scientific Reports</i> , <b>2019</b> , 9, 8016	4.9 4
337	Atypical behaviour and connectivity in SHANK3-mutant macaques. <b>2019</b> , 570, 326-331	89
336	Therapeutic application of the CRISPR system: current issues and new prospects. <b>2019</b> , 138, 563-590	13

- 335 CRISPR/Cas System for Genome Editing: Progress and Prospects as a Therapeutic Tool. **2019**, 370, 725-735 16
- 334 Expansion of the mutant monkey through cloning. *Science China Life Sciences*, **2019**, 62, 865-867 8.5
- 333 CRISPR/Cas9-mediated MSTN gene editing induced mitochondrial alterations in C2C12 myoblast cells. **2019**, 40, 30-39 2
- 332 What to Expect When Expecting CRISPR Baby Number Four. **2019**, 19, 7-9 19
- 331 Genome Editing with mRNA Encoding ZFN, TALEN, and Cas9. *Molecular Therapy*, **2019**, 27, 735-746 11.7 75
- 330 Introduction. **2019**, 3-15
- 329 Biological Resources for Genomic Investigation in the Vervet Monkey (*Chlorocebus*). **2019**, 16-28 3
- 328 Savanna Monkey Taxonomy. **2019**, 31-54 1
- 327 The Promise of Vervet Genomics. **2019**, 55-59
- 326 African Green Monkeys as a Natural Host of SIV. **2019**, 60-70
- 325 The Vervet Microbiome. **2019**, 71-78
- 324 Population Genetics and Savanna Monkeys. **2019**, 81-100
- 323 Population Genetic Structure of Vervet Monkeys in South Africa. **2019**, 101-106
- 322 Behavioral Ecology of Savanna Monkeys. **2019**, 109-126 0
- 321 Socioecology of Vervet Monkeys. **2019**, 127-132
- 320 Biological Complexity in Primate Sociality and Health. **2019**, 133-140
- 319 Predation and Food Competition in Vervet Monkeys (*Chlorocebus pygerythrus*). **2019**, 141-151
- 318 Vervet Monkeys' Social Learning Abilities. **2019**, 152-160



317	Life History of Savanna Monkeys. <b>2019</b> , 163-198		1
316	The Social and Thermal Competence of Wild Vervet Monkeys. <b>2019</b> , 199-207		1
315	Novelty-Seeking in Vervets: Developmental, Genetic, and Environmental Influences. <b>2019</b> , 208-216		
314	Measurement of Novelty-Seeking in Wild Vervet Monkeys. <b>2019</b> , 217-223		
313	Causes of Variation in the Static Allometry of Morphological Structures: A Case Study with Vervet Monkeys. <b>2019</b> , 224-232		
312	Ethnoprimateology and Savanna Monkeys. <b>2019</b> , 235-243		1
311	Exploring Caribbean Green Monkeys ( <i>Chlorocebus sabaues</i> ) through an Ethnoprimateological Lens. <b>2019</b> , 244-254		
310	Vervet Monkeys ( <i>Chlorocebus pygerrhus</i> ), Chimpanzees ( <i>Pan troglodytes</i> ), and Humans ( <i>Homo sapiens</i> ): Studying Interactions Using Stable Isotope Analysis. <b>2019</b> , 255-262		
309	Index. <b>2019</b> , 333-342		
308	Preface. <b>2019</b> , xv-xviii		
307	Genome editing: A perspective on the application of CRISPR/Cas9 to study human diseases (Review). <b>2019</b> , 43, 1559-1574		43
306	Local transgene expression and whole-body transgenesis to model brain diseases in nonhuman primate. <b>2019</b> , 2, 9-17		1
305	Genome mutation after introduction of the gene editing by electroporation of Cas9 protein (GEEP) system in matured oocytes and putative zygotes. <b>2019</b> , 55, 237-242		19
304	CRISPR-Cas: Converting A Bacterial Defence Mechanism into A State-of-the-Art Genetic Manipulation Tool. <b>2019</b> , 8,		20
303	Profile of Prof. Weizhi Ji. <i>Science China Life Sciences</i> , <b>2019</b> , 62, 8-11		8.5
302	Unexpected genomic rearrangements at targeted loci associated with CRISPR/Cas9-mediated knock-in. <i>Scientific Reports</i> , <b>2019</b> , 9, 3486	4.9	16
301	Delivering the Messenger: Advances in Technologies for Therapeutic mRNA Delivery. <i>Molecular Therapy</i> , <b>2019</b> , 27, 710-728	11.7	354
300	A Rationally Designed Semiconducting Polymer Brush for NIR-II Imaging-Guided Light-Triggered Remote Control of CRISPR/Cas9 Genome Editing. <b>2019</b> , 31, e1901187		65

299	Comparison of gene editing efficiencies of CRISPR/Cas9 and TALEN for generation of MSTN knock-out cashmere goats. <b>2019</b> , 132, 1-11		18
298	The ethics of genome editing in non-human animals: a systematic review of reasons reported in the academic literature. <b>2019</b> , 374, 20180106		24
297	Transgenic rhesus monkeys carrying the human gene copies show human-like neoteny of brain development. <b>2019</b> , 6, 480-493		35
296	Loss-of-function approaches in comparative physiology: is there a future for knockdown experiments in the era of genome editing?. <b>2019</b> , 222,		19
295	The CRISPR/Cas9, genome editing approach: a promising tool for drafting defense strategy against begomoviruses including cotton leaf curl viruses. <b>2019</b> , 28, 121-132		11
294	Craniobot: A computer numerical controlled robot for cranial microsurgeries. <i>Scientific Reports</i> , <b>2019</b> , 9, 1023	4.9	18
293	Comparative Principles for Next-Generation Neuroscience. <b>2019</b> , 13, 12		11
292	Creating cell and animal models of human disease by genome editing using CRISPR/Cas9. <b>2019</b> , 21, e3082		22
291	CRISPR/Cas9-mediated genome editing in nonhuman primates. <b>2019</b> , 12,		30
290	Current state of research on non-human primate models of Alzheimer's disease. <b>2019</b> , 2, 227-238		14
289	Making Future Teachers More Aware of Issues Related to Sustainability: An Assessment of Best Practices. <b>2019</b> , 11, 7222		16
288	Ethico-legal aspects of CRISPR Cas-9 genome editing: A balanced approach. <b>2019</b> , 19, 11-16		
287	Optimization Strategy for Generating Gene-edited Tibet Minipigs by Synchronized Oestrus and Cytoplasmic Microinjection. <b>2019</b> , 15, 2719-2732		4
286	Cell-Selective Messenger RNA Delivery and CRISPR/Cas9 Genome Editing by Modulating the Interface of Phenylboronic Acid-Derived Lipid Nanoparticles and Cellular Surface Sialic Acid. <b>2019</b> , 11, 46585-46590		28
285	Integrative Analysis of Methylation and Transcriptional Profiles to Reveal the Genetic Stability of Cashmere Traits in the T <sub>4</sub> Overexpression of Cashmere Goats. <b>2019</b> , 9,		6
284	3D designed and printed chemical generators for on demand reagent synthesis. <b>2019</b> , 10, 5496		11
283	Monkeys mutant for PKD1 recapitulate human autosomal dominant polycystic kidney disease. <b>2019</b> , 10, 5517		12
282	CRISPR-Cas Technology as a Tool to Create Animal Models for Biomedical Research. <b>2019</b> , 141-153		

281	Generation of genetically engineered non-human primate models of brain function and neurological disorders. <b>2019</b> , 81, e22931	21
280	Human germline editing: Insights to future clinical treatment of diseases. <b>2019</b> , 10, 470-475	0
279	Natural Cerebral Aneurysm and Spontaneous Subarachnoid Hemorrhage in Mammals Other Than Man: Is There a Scope for Comparative Medicine?. <b>2019</b> , 122, 384-389	3
278	Programmable Molecular Scissors: Applications of a New Tool for Genome Editing in Biotech. <b>2019</b> , 14, 212-238	25
277	Homologous recombination-mediated targeted integration in monkey embryos using TALE nucleases. <b>2019</b> , 19, 7	4
276	Material solutions for delivery of CRISPR/Cas-based genome editing tools: Current status and future outlook. <b>2019</b> , 26, 40-66	58
275	Mosaicism in CRISPR/Cas9-mediated genome editing. <b>2019</b> , 445, 156-162	101
274	Delivery of CRISPR-Cas9 into Mouse Zygotes by Electroporation. <b>2019</b> , 1874, 179-190	8
273	Genome Editing: A New Horizon for Oral and Craniofacial Research. <b>2019</b> , 98, 36-45	9
272	Creating Genetically Modified Marmosets. <b>2019</b> , 335-353	3
271	Messenger RNA Delivery for Tissue Engineering and Regenerative Medicine Applications. <b>2019</b> , 25, 91-112	34
270	Application of CRISPR/Cas9 gene editing technique in the study of cancer treatment. <b>2020</b> , 97, 73-88	22
269	Quantitative Rodent Brain Receptor Imaging. <b>2020</b> , 22, 223-244	13
268	Genome editing in animals: an overview. <b>2020</b> , 75-104	1
267	CRISPR/Cas9: Nature's gift to prokaryotes and an auspicious tool in genome editing. <b>2020</b> , 60, 91-102	10
266	Models of hyperkinetic disorders in primates. <b>2020</b> , 332, 108551	0
265	Key considerations in designing CRISPR/Cas9-carrying nanoparticles for therapeutic genome editing. <b>2020</b> , 12, 21001-21014	10
264	Generation of Nonhuman Primate Model of Cone Dysfunction through AAV-Mediated Ablation. <b>2020</b> , 18, 869-879	8

263	One-step genome editing of porcine zygotes through the electroporation of a CRISPR/Cas9 system with two guide RNAs. <b>2020</b> , 56, 614-621		7
262	CRISPR/Cas9 mediated GFP-human dentin matrix protein 1 (DMP1) promoter knock-in at the ROSA26 locus in mesenchymal stem cell for monitoring osteoblast differentiation. <b>2020</b> , 22, e3288		1
261	The dawn of non-human primate models for neurodevelopmental disorders. <b>2020</b> , 65, 160-168		7
260	Generation of knockout rabbits with X-linked severe combined immunodeficiency (X-SCID) using CRISPR/Cas9. <i>Scientific Reports</i> , <b>2020</b> , 10, 9957	4.9	7
259	Production of gene-edited pigs harboring orthologous human mutations via double cutting by CRISPR/Cas9 with long single-stranded DNAs as homology-directed repair templates by zygote injection. <i>Transgenic Research</i> , <b>2020</b> , 29, 587-598	3.3	5
258	Host as a Unique Ethical Dimension of Germline Interventions. <b>2020</b> , 20, 51-53		1
257	Two CRISPR/Cas9 Systems Developed in <i>Thermomyces dupontii</i> and Characterization of Key Gene Functions in Thermolide Biosynthesis and Fungal Adaptation. <b>2020</b> , 86,		1
256	First progeria monkey model generated using base editor. <b>2020</b> , 11, 862-865		0
255	CRISPR Start-Loss: A Novel and Practical Alternative for Gene Silencing through Base-Editing-Induced Start Codon Mutations. <b>2020</b> , 21, 1062-1073		7
254	Deletion of NKX3.1 via CRISPR/Cas9 Induces Prostatic Intraepithelial Neoplasia in C57BL/6 Mice. <b>2020</b> , 19, 1533033820964425		2
253	Genome editing of CCR5 by CRISPR-Cas9 in Mauritian cynomolgus macaque embryos. <i>Scientific Reports</i> , <b>2020</b> , 10, 18457	4.9	6
252	CRISPR/Cas: A Successful Tool for Genome Editing in Animal Models. <b>2020</b> , 30, 239-243		1
251	Gene Therapy Based on Nucleic Acid Nanostructure. <b>2020</b> , 9, e2001046		13
250	Precise allele-specific genome editing by spatiotemporal control of CRISPR-Cas9 via pronuclear transplantation. <b>2020</b> , 11, 4593		2
249	The roles of long noncoding RNAs in breast cancer metastasis. <b>2020</b> , 11, 749		22
248	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. <b>2020</b> , 117, 24022-24031		15
247	Ethical and Welfare Implications of Genetically Altered Non-Human Primates for Biomedical Research. <b>2020</b> , 2, 151-176		1
246	Multiplex precise base editing in cynomolgus monkeys. <b>2020</b> , 11, 2325		19

245	CRISPR/Cas9 genome editing shows the important role of AZC_2928 gene in nitrogen-fixing bacteria of plants. <b>2020</b> , 20, 657-668		1
244	Introducing Chemistry Students to Emerging Technologies in Gene Editing, Their Applications, and Ethical Considerations. <b>2020</b> , 97, 1931-1943		3
243	Valproic Acid Significantly Improves CRISPR/Cas9-Mediated Gene Editing. <b>2020</b> , 9,		4
242	Description of CRISPR/Cas9 development and its prospect in hepatocellular carcinoma treatment. <b>2020</b> , 39, 97		7
241	Evaluation of multiple gene targeting in porcine embryos by the CRISPR/Cas9 system using electroporation. <i>Molecular Biology Reports</i> , <b>2020</b> , 47, 5073-5079	2.8	7
240	Genetic and epigenetic pathways in Down syndrome: Insights to the brain and immune system from humans and mouse models. <b>2020</b> , 251, 1-28		9
239	CRISPR/Cas9-Mediated Biallelic Knockout of IRX3 Reduces the Production and Survival of Somatic Cell-Cloned Bama Minipigs. <b>2020</b> , 10,		10
238	Polyethylenimine based magnetic nanoparticles mediated non-viral CRISPR/Cas9 system for genome editing. <i>Scientific Reports</i> , <b>2020</b> , 10, 4619	4.9	33
237	A review of CRISPR associated genome engineering: application, advances and future prospects of genome targeting tool for crop improvement. <b>2020</b> , 42, 1611-1632		15
236	CRISPR-based functional genomics for neurological disease. <b>2020</b> , 16, 465-480		35
235	A Handbook of Gene and Cell Therapy. <b>2020</b> ,		1
234	Progress and challenges towards CRISPR/Cas clinical translation. <b>2020</b> , 154-155, 176-186		14
233	A roadmap to a columnar visual cortical prosthetic. <b>2020</b> , 16, 68-78		1
232	In vivo gene delivery mediated by non-viral vectors for cancer therapy. <b>2020</b> , 325, 249-275		74
231	Multivalent Peptide-Functionalized Bioreducible Polymers for Cellular Delivery of Various RNAs. <b>2020</b> , 21, 1613-1624		11
230	Genome editing methods in animal models. <b>2020</b> , 24, 8-16		15
229	Introduction to the Special Issue on CRISPR. <b>2020</b> , 63, 1-13		1
228	The rapidly advancing Class 2 CRISPR-Cas technologies: A customizable toolbox for molecular manipulations. <b>2020</b> , 24, 3256-3270		22

227	Ex vivo cell-based CRISPR/Cas9 genome editing for therapeutic applications. <b>2020</b> , 234, 119711	24
226	Coloration in Mammals. <b>2020</b> , 35, 357-366	30
225	CRISPR/Cas9 gene editing in a chicken model: current approaches and applications. <b>2020</b> , 61, 221-229	16
224	Innovative Precision Gene-Editing Tools in Personalized Cancer Medicine. <b>2020</b> , 7, 1902552	5
223	Lipid and polymer mediated CRISPR/Cas9 gene editing. <b>2020</b> , 8, 4369-4386	8
222	Bioethical issues in genome editing by CRISPR-Cas9 technology. <b>2020</b> , 44, 110-120	13
221	Resources for functional genomic studies of health and development in nonhuman primates. <b>2020</b> , 171 Suppl 70, 174-194	2
220	Synthetic multi-layer nanoparticles for CRISPR-Cas9 genome editing. <b>2021</b> , 168, 55-78	20
219	Therapeutic genome editing in cardiovascular diseases. <b>2021</b> , 168, 147-157	6
218	Effective Delivery of the CRISPR/Cas9 System Enabled by Functionalized Mesoporous Silica Nanoparticles for GFP-Tagged Paxillin Knock-In. <b>2021</b> , 4, 2000072	7
217	Strategies in the delivery of Cas9 ribonucleoprotein for CRISPR/Cas9 genome editing. <b>2021</b> , 11, 614-648	66
216	Induction of core symptoms of autism spectrum disorder by in vivo CRISPR/Cas9-based gene editing in the brain of adolescent rhesus monkeys. <b>2021</b> , 66, 937-946	1
215	gene mutation by pair truncated sgRNA/Cas9-D10A in cynomolgus monkeys. <b>2021</b> , 42, 469-477	5
214	CRISPR/Cas systems in bioactive peptide research. <b>2021</b> , 285-307	
213	CRISPR-Cas9: A method for establishing rat models of drug metabolism and pharmacokinetics. <b>2021</b> , 11, 2973-2982	6
212	Postnatal therapeutic approaches in genetic neurodevelopmental disorders. <b>2021</b> , 16, 414-422	3
211	Nanomaterials for Protein Delivery in Anticancer Applications. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4 13
210	Empowering of reproductive health of farm animals through genome editing technology. 2, 4	0

209	CRISPR based bacterial genome editing and removal of pathogens. <b>2021</b> , 179, 77-92		
208	Comparison of the effects of introducing the CRISPR/Cas9 system by microinjection and electroporation into porcine embryos at different stages. <b>2021</b> , 14, 7		12
207	Current status of the application of gene editing in pigs. <b>2021</b> , 67, 177-187		6
206	Protocol for De Novo Gene Targeting Via In Utero Electroporation. <b>2021</b> , 2312, 309-320		
205	Comparison of Genetically Engineered Immunodeficient Animal Models for Nonclinical Testing of Stem Cell Therapies. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
204	Generation and Breeding of -Transgenic Marmoset Monkeys: Cell Chimerism and Implications for Disease Modeling. <b>2021</b> , 10,		4
203	One-Step Generation of Multiple Gene-Edited Pigs by Electroporation of the CRISPR/Cas9 System into Zygotes to Reduce Xenoantigen Biosynthesis. <b>2021</b> , 22,		7
202	Generation of nonhuman primate retinitis pigmentosa model by in situ knockout of RHO in rhesus macaque retina. <b>2021</b> , 66, 374-385		0
201	Prospects of genome editing using CRISPR/CAS or how to master genetic scissors. Nobel Prize in Chemistry 2020. <b>2021</b> , 93, 113-128		
200	Applications of genome editing on laboratory animals. <b>2021</b> , 23677221993141		3
199	Bi-functionalized aminoguanidine-PEGylated periodic mesoporous organosilica nanoparticles: a promising nanocarrier for delivery of Cas9-sgRNA ribonucleoproteine. <b>2021</b> , 19, 95		0
198	Gene Therapy to the Retina and the Cochlea. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 652215	5.1	5
197	CRISPR/Cas9 Mediated High Efficiency Knockout of Myosin Essential Light Chain Gene in the Pacific Oyster ( <i>Crassostrea Gigas</i> ). <b>2021</b> , 23, 215-224		1
196	Evolution and Biology of CRISPR System: A New Era Tool for Genome Editing in Plants. 1		2
195	Assisted Reproductive Techniques and Genetic Manipulation in the Common Marmoset. <b>2021</b> ,		2
194	Primate Organoids and Gene-Editing Technologies toward Next-Generation Biomedical Research. <b>2021</b> , 39, 1332-1342		3
193	Miniaturized head-mounted microscope for whole-cortex mesoscale imaging in freely behaving mice. <b>2021</b> , 18, 417-425		9
192	Genetic Manipulation of the Equine Oocyte and Embryo. <b>2021</b> , 99, 103394		0

191	Latest Advances of Virology Research Using CRISPR/Cas9-Based Gene-Editing Technology and Its Application to Vaccine Development. <b>2021</b> , 13,	6
190	Progress of genome editing technology and developmental biology useful for radiation research. <b>2021</b> , 62, i53-i63	0
189	In vivo enrichment of busulfan-resistant germ cells for efficient production of transgenic avian models. <i>Scientific Reports</i> , <b>2021</b> , 11, 9127	4.9 1
188	CRISPR: A new paradigm of theranostics. <b>2021</b> , 33, 102350	3
187	Accelerated passage of gene-modified monkeys by hormone-induced precocious puberty. <b>2021</b> , 8, nwab083	1
186	Sleep Disorders in Children With Autism Spectrum Disorder: Insights From Animal Models, Especially Non-human Primate Model. <b>2021</b> , 15, 673372	
185	T-complex protein 1 subunit zeta-2 (CCT6B) deficiency induces murine teratospermia. <b>2021</b> , 9, e11545	2
184	CRISPR Adventures in China. <b>2021</b> , 4, 304-306	
183	Supramolecular Nanosubstrate-Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. <b>2021</b> , 17, e2100546	1
182	CRISPR/Cas9 in cancer: An attempt to the present trends and future prospects. <b>2021</b> ,	
181	The Moral Status of Cognitively Enhanced Monkeys and Other Novel Beings. <b>2021</b> , 30, 492-503	0
180	Impact of CRISPR-Cas9-Based Genome Engineering in Farm Animals. <b>2021</b> , 8,	3
179	Screening and validation of genome-edited animals. <b>2021</b> , 236772211016922	3
178	Pollen-Specific CRISPR/Cas9 System to Increase Heritable Gene Mutations in Maize. <b>2021</b> , 11, 751	2
177	Cyclin D1 gene expression is essential for cell cycle progression from the maternal-to-zygotic transition during blastoderm development in Japanese quail. <b>2021</b> , 476, 249-258	2
176	Amnion signals are essential for mesoderm formation in primates. <b>2021</b> , 12, 5126	9
175	Embryo-Engineered Nonhuman Primate Models: Progress and Gap to Translational Medicine. <b>2021</b> , 2021, 9898769	0
174	Chromatin Alterations in Neurological Disorders and Strategies of (Epi)Genome Rescue. <b>2021</b> , 14,	0



173	Asian Mouse Mutagenesis Resource Association (AMMRA): mouse genetics and laboratory animal resources in the Asia Pacific. <b>2021</b> , 1	0
172	CRISPR-Cas9 genome engineering: trends in medicine and health. <b>2021</b> ,	1
171	How Does Bank Diversification Affect Efficiency? Insights of the Central Europe. 097215092110268	
170	The rise of developmental biology in China. <b>2021</b> ,	1
169	Severe Spontaneous Atherosclerosis in two Korat Breed Cats is Comparable to Human Atherosclerosis. <b>2021</b> , 188, 52-61	1
168	pDNA and mRNA vaccines. <b>2022</b> , 157-205	0
167	Programming Molecular Circuitry and Intracellular Computing with Framework Nucleic Acids. <b>2021</b> , 77-103	
166	Biological implications and limitations of a cynomolgus monkey with naturally occurring Parkinson's disease. <b>2021</b> , 42, 138-140	2
165	Erratic journey of CRISPR/Cas9 in oncology from bench-work to successful-clinical therapy. <b>2021</b> , 27, 100289	2
164	Molecular Network for Management of Neurodegenerative Diseases and their Translational Importance using Animal Biotechnology as a Tool in Preclinical Studies. <b>2021</b> , 219-235	
163	Genome Editing of Monkey. <b>2017</b> , 1630, 141-152	2
162	Encyclopedia of Global Bioethics. <b>2015</b> , 1-9	2
161	Encyclopedia of Global Bioethics. <b>2016</b> , 1375-1382	1
160	Neuroscience Research Using Non-human Primate Models and Genome Editing. <b>2017</b> , 73-81	1
159	A detailed procedure for CRISPR/Cas9-mediated gene editing in tilapia. <b>2021</b> , 848, 3865-3881	4
158	CRISPR-Cas systems: Overview, innovations and applications in human disease research and gene therapy. <b>2020</b> , 18, 2401-2415	25
157	CRISPR-Cas9 system: A genome-editing tool with endless possibilities. <b>2020</b> , 319, 36-53	16
156	Savanna Monkeys: The Genus Chlorocebus. <b>2019</b> ,	6

155	Marmosets are stars of Japan's ambitious brain project. <b>2014</b> , 514, 151-2	30
154	Altered neurogenesis and disrupted expression of synaptic proteins in prefrontal cortex of SHANK3-deficient non-human primate. <b>2017</b> , 27, 1293-1297	52
153	Toward precise CRISPR DNA fragment editing and predictable 3D genome engineering. <b>2021</b> , 12, 828-856	1
152	Multiplexed sgRNA Expression Allows Versatile Single Non-repetitive DNA Labeling and Endogenous Gene Regulation.	2
151	Amnion signals are essential for mesoderm formation in primates.	5
150	Immunostimulatory guide RNAs mediate potent antiviral response.	1
149	Genetically modified pigs are protected from classical swine fever virus.	1
148	Haplotype-phased common marmoset embryonic stem cells for genome editing using CRISPR/Cas9.	1
147	Successful CRISPR/Cas9 mediated homologous recombination in a chicken cell line. <b>2018</b> , 7, 238	6
146	Successful CRISPR/Cas9 mediated homologous recombination in a chicken cell line. <b>2018</b> , 7, 238	6
145	Efficient and versatile CRISPR engineering of human neurons in culture to model neurological disorders. <b>2016</b> , 1, 13	19
144	A Biophysical Model of CRISPR/Cas9 Activity for Rational Design of Genome Editing and Gene Regulation. <b>2016</b> , 12, e1004724	72
143	The meganuclease I-SceI containing nuclear localization signal (NLS-I-SceI) efficiently mediated mammalian germline transgenesis via embryo cytoplasmic microinjection. <b>2014</b> , 9, e108347	14
142	CRISPR-Cas9-based knockout of the prion protein and its effect on the proteome. <b>2014</b> , 9, e114594	42
141	CRISPR/Cas9 as tool for functional study of genes involved in preimplantation embryo development. <b>2015</b> , 10, e0120501	11
140	Highly efficient gene inactivation by adenoviral CRISPR/Cas9 in human primary cells. <b>2017</b> , 12, e0182974	32
139	Experimental primates and non-human primate (NHP) models of human diseases in China: current status and progress. <b>2014</b> , 35, 447-64	29
138	The big bang of genome editing technology: development and application of the CRISPR/Cas9 system in disease animal models. <b>2016</b> , 37, 191-204	6

137	Generation of genetically modified mice using CRISPR/Cas9 and haploid embryonic stem cell systems. <b>2016</b> , 37, 205-13	7
136	Application of the genome editing tool CRISPR/Cas9 in non-human primates. <b>2016</b> , 37, 214-9	15
135	Applications of CRISPR/Cas9 for Gene Editing in Hereditary Movement Disorders. <b>2016</b> , 9, 136-43	13
134	The 18S rRNA m A methyltransferase METTL5 promotes mouse embryonic stem cell differentiation. <b>2020</b> , 21, e49863	15
133	Advances in genetic engineering of domestic animals. <b>2016</b> , 3, 1	4
132	Genome editing, or CRISPR/CAS9 is panacea for many incurable diseases or the first step to a gene apocalypse?. <b>2020</b> , 03, 50-77	2
131	Base editors: a powerful tool for generating animal models of human diseases. <b>2018</b> , 2, 242-245	1
130	Rapid generation of novel models of RAG1 deficiency by CRISPR/Cas9-induced mutagenesis in murine zygotes. <b>2016</b> , 7, 12962-74	8
129	Contemporary Animal Models For Human Gene Therapy Applications. <b>2015</b> , 15, 531-40	9
128	CRISPR/Cas9 System and its Research Progress in Gene Therapy. <b>2019</b> , 19, 1912-1919	1
127	Efficient Production of Biallelic RAG1 Knockout Mouse Embryonic Stem Cell Using CRISPR/Cas9. <b>2019</b> , 17, e2205	3
126	genome editing thrives with diversified CRISPR technologies. <b>2018</b> , 39, 58-71	8
125	Comparative study of the transfection efficiency of commonly used viral vectors in rhesus monkey () brains. <b>2017</b> , 38, 88-95	12
124	CRISPR/Cas system: An emerging technology in stem cell research. <b>2019</b> , 11, 937-956	14
123	Myostatin gene knockout mediated by Cas9-D10A nickase in chicken DF1 cells without off-target effect. <b>2017</b> , 30, 743-748	10
122	The First Chinese Edited Babies: A Leap of Faith in Science. <b>2019</b> , 23, 197-199	5
121	Generation of transgenic ducks by crispr/CAS9-mediated gene inser-tion combined with the sperm-mediated gene transfer (SMGT). <b>2019</b> , 35, 427-436	5
120	CRISPR/Cas9 System-Mediated Gene Editing in the Fujian Oysters ( <i>Crassostrea angulate</i> ) by Electroporation. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5 0

- 119 Stimulus-Responsive Smart Nanoparticles-Based CRISPR-Cas Delivery for Therapeutic Genome Editing. **2021**, 22, 2
- 118 Efficient marmoset genome engineering by autologous embryo transfer and CRISPR/Cas9 technology. *Scientific Reports*, **2021**, 11, 20234 4.9 1
- 117 First monkeys with customized mutations born. 2
- 116 Developing CRISPR/Cas9 Technologies for Research and Medicine. **2014**, 1,
- 115 Methods, Principles and Application of Gene Editing. **2015**, 05, 32-41
- 114 Generation of genetically modified animals by genome editing technology. **2015**, 26, 626-632
- 113 Modifications du g nome des cellules germinales et de l'embryon humains. **2016**, 200, 993-1012
- 112 RNA-guided Genome Editing Tool CRISPR-Cas9: Its Applications and Achievements in Model and Crop Plants. **2016**, 10, 3035-3042
- 111 The Future for Genomic Medicine in Inflammatory Diseases. **2017**, 53-72
- 110 Designer Effectors for Editing and Regulating Complex Genomes. **2017**, 137-157
- 109 Chapter 11 Germline Gene Therapy in the Era of Precise Genome Editing: How Far Should We Go?. **2018**, 157-171 1
- 108 [Usage of common marmoset to drug discovery research]. **2018**, 152, 94-99
- 107 Principles of Computer Numerical Controlled Machining Applied to Cranial Microsurgery. 0
- 106 Research progress of gene editing technology CRISPR/Cas9 system in animal gene editing. **2018**, 4, 015-019 1
- 105 Extensive adaptive immune response of AAVs and Cas proteins in non-human primates.
- 104 A Maternal Transcription Factor, Junction Mediating and Regulatory Protein is Required for Preimplantation Development in the Mouse. **2019**, 23, 285-295
- 103 Induction of core symptoms of autism spectrum disorders by in vivo CRISPR/Cas9-based gene editing in the brain of adolescent rhesus monkeys.
- 102 Gene modification strategies using AO-mediated exon skipping and CRISPR/Cas9 as potential therapies for Duchenne muscular dystrophy patients. **2020**, 4, 37-42

101	PROSPECTS FOR GENE EDITING USING CRISPR/CAS, OR HOW TO MASTER THE GENETIC SCISSORS Nobel Prize in Chemistry for 2020. <b>2020</b> , 31-49	
100	Gene Editing. <b>2020</b> , 147-164	
99	A brief review of genome editing technology for generating animal models. <b>2020</b> , 7, 123	1
98	Generation of nonhuman primate retinitis pigmentosa model by in situ knockout of RHO in rhesus macaque retina.	
97	Mutating PINK1 gene by paired truncated sgRNA/Cas9-D10A in Cynomolgus Monkey.	0
96	Germline modification of domestic animals. <b>2015</b> , 12, 93-104	10
95	CRISPR-Mediated Epigenome Editing. <b>2016</b> , 89, 471-486	23
94	Pulmonary surfactant synthesis in miRNA-26a-1/miRNA-26a-2 double knockout mice generated using the CRISPR/Cas9 system. <b>2017</b> , 9, 355-365	7
93	Applications of CRISPR/Cas9 in the Mammalian Central Nervous System. <b>2017</b> , 90, 567-581	27
92	CRISPR/Cas9 System for Efficient Genome Editing and Targeting in the Mouse NIH/3T3 Cells. <b>2019</b> , 11, 149-155	2
91	[Establishment and verification of a mouse model of gene H435Y mutation]. <b>2018</b> , 38, 1245-1249	1
90	Delivery of CRISPR-Cas9 system for screening and editing RNA binding proteins in cancer. <b>2021</b> , 180, 114042	5
89	Animal Cell Technology. <b>2021</b> , 579-685	
88	CRISPR/Cas System and Factors Affecting Its Precision and Efficiency.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 761709	5-7 0
87	Pathogen detection strategy based on CRISPR. <b>2021</b> , 107036	2
86	Generation of in situ CRISPR-mediated primary and metastatic cancer from monkey liver. <b>2021</b> , 6, 411	2
85	Single-Cell Analysis of Embryoids Reveals Lineage Diversification Roadmaps of Early Human Development.	1
84	Delivery Methods for CRISPR/Cas Reagents. <b>2022</b> , 113-148	

83	CRISPR-based genome editing through the lens of DNA repair.. <b>2022</b> , 82, 348-388		5
82	Optogenetic Animal Models of Depression: From Mice to Men. <b>2022</b> , 167-191		
81	The use of new CRISPR tools in cardiovascular research and medicine.. <b>2022</b> ,		1
80	The mouse resource at National Resource Center for Mutant Mice.. <b>2022</b> , 33, 143		
79	Non-viral nanocarriers for CRISPR-Cas9 gene editing system delivery. <b>2022</b> , 435, 135116		2
78	mRNA, a Revolution in Biomedicine.. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
77	Gene Editing Through CRISPR-Based Technology. <b>2022</b> , 23-92		
76	Development and Vision of CRISPR-Based Technology. <b>2022</b> , 1-22		
75	Triple gene editing in porcine embryos using electroporation alone or in combination with microinjection.. <i>Veterinary World</i> , <b>2022</b> , 15, 496-501	1.7	1
74	Systematic Investigation of the Effects of Multiple SV40 Nuclear Localization Signal Fusion on the Genome Editing Activity of Purified SpCas9.. <i>Bioengineering</i> , <b>2022</b> , 9,	5.3	0
73	Modeling genetic diseases in nonhuman primates through embryonic and germline modification: Considerations and challenges.. <i>Science Translational Medicine</i> , <b>2022</b> , 14, eabf4879	17.5	0
72	as a key gene drives the early primate telencephalon development.. <i>Science Advances</i> , <b>2022</b> , 8, eabl726314.3	14.3	0
71	Maternal separation induces autism spectrum disorder in young rhesus monkeys.		
70	Strategies to overcome the main challenges of the use of CRISPR/Cas9 as a replacement for cancer therapy.. <i>Molecular Cancer</i> , <b>2022</b> , 21, 64	42.1	3
69	Base-edited Cynomolgus Monkeys mimic core symptoms of STXBP1 encephalopathy.. <i>Molecular Therapy</i> , <b>2022</b> ,	11.7	1
68	mRNA?????????. <i>Scientia Sinica Vitae</i> , <b>2021</b> ,	1.4	
67	Generation of mutant pigs by lipofection-mediated genome editing in embryos.. <i>Scientific Reports</i> , <b>2021</b> , 11, 23806	4.9	3
66	Genetically modified large animal models for investigating neurodegenerative diseases.. <i>Cell and Bioscience</i> , <b>2021</b> , 11, 218	9.8	2

65	Application of CRISPR/Cas9 in Alzheimer's Disease.. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 803894	5.1	1
64	Gene editing and its applications in biomedicine.. <i>Science China Life Sciences</i> , <b>2022</b> , 65, 660	8.5	3
63	mRNA vaccines: the most recent clinical applications of synthetic mRNA.. <i>Archives of Pharmacal Research</i> , <b>2022</b> , 45, 245	6.1	2
62	Beyond safety: mapping the ethical debate on heritable genome editing interventions. <i>Humanities and Social Sciences Communications</i> , <b>2022</b> , 9,	2.8	1
61	Rational guide RNA engineering for small-molecule control of CRISPR/Cas9 and gene editing.. <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1	0
60	Data_Sheet_1.docx. <b>2019</b> ,		
59	Table_1.XLSX. <b>2019</b> ,		
58	Table_2.XLSX. <b>2019</b> ,		
57	Data_Sheet_1.docx. <b>2018</b> ,		
56	Application of CRISPR/Cas9 System in Establishing Large Animal Models. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10,	5.7	1
55	The Use and Access to CRISPR in Historically Socioeconomically Disadvantaged and Marginalized Communities. <b>2022</b> , 77-87		
54	Understanding on CRISPR/Cas9 mediated cutting-edge approaches for cancer therapeutics. <i>Discover Oncology</i> , <b>2022</b> , 13,		
53	The cell cycle stage of bovine zygotes electroporated with CRISPR/Cas9-RNP affects frequency of Loss-of-heterozygosity editing events. <i>Scientific Reports</i> , <b>2022</b> , 12,	4.9	
52	CRISPR-Cas9-Based Technology and Its Relevance to Gene Editing in Parkinson's Disease. <i>Pharmaceutics</i> , <b>2022</b> , 14, 1252	6.4	2
51	CRISPR/Cas9 a simple, inexpensive and effective technique for gene editing. <i>Molecular Biology Reports</i> ,	2.8	0
50	Generation of C-to-G transversion in mouse embryos via CG editors. <i>Transgenic Research</i> ,	3.3	0
49	CRISPR/Cas9 editing of the MYO7A gene in rhesus macaque embryos to generate a primate model of Usher syndrome type 1B. <i>Scientific Reports</i> , <b>2022</b> , 12,	4.9	0
48	Progress in modern reproductive biology research in China. <i>Biology of Reproduction</i> ,	3.9	

47	Novel Nanotechnology-Based Vector Delivery in CRISPR System for Transgene-Free Editing. <b>2022</b> , 279-294		
46	Efficient Modification and Preparation of Circular DNA for Expression in Cell Culture.		
45	Genome centric engineering using ZFNs, TALENs and CRISPR-Cas9 systems for trait improvement and disease control in Animals. <i>Veterinary Research Communications</i> ,	2.9	2
44	CRISPR/Cas Genome Editing Can It Become a Game Changer in Future Fisheries Sector?. <i>Frontiers in Marine Science</i> , 9,	4.5	0
43	A Novel Anti-Cancer Therapy: CRISPR/Cas9 Gene Editing. <i>Frontiers in Pharmacology</i> , 13,	5.6	0
42	Up-regulated LRRN2 expression as a marker for graft quality in living donor liver transplantation.		0
41	Reproductive Embryo Editing: Attending to Justice. <b>2022</b> , 52, 26-33		0
40	FAR knockout significantly inhibits <i>Chilo suppressalis</i> survival and transgene expression of double-stranded FAR in rice exhibits strong pest resistance.		0
39	Genome characterization and CRISPR-Cas9 editing of a human neocentromere.		
38	CRISPR/Cas9 genome editing to create nonhuman primate models for studying stem cell therapies for HIV infection. <b>2022</b> , 19,		0
37	Genetic Engineering of Nonhuman Primate Models for Studying Neurodevelopmental Disorders. <b>2022</b> , 235-262		0
36	Stimuli-responsive delivery strategies for controllable gene editing in tumor therapeutics. <b>2022</b> , 10, 7694-7707		0
35	The Bibliometric Landscape of Gene Editing Innovation and Regulation in the Worldwide. <b>2022</b> , 11, 2682		0
34	CRISPR/Cas9 system: a reliable and facile genome editing tool in modern biology.		0
33	Current understanding of osteoarthritis pathogenesis and relevant new approaches. <b>2022</b> , 10,		5
32	Gene editing monkeys: Retrospect and outlook. 10,		1
31	Targeting the MALAT1 gene with the CRISPR/Cas9 technique in prostate cancer. <b>2022</b> , 44,		0
30	Advances in CRISPR/Cas9. <b>2022</b> , 2022, 1-13		2



29	Single-cell analysis of embryoids reveals lineage diversification roadmaps of early human development. <b>2022</b> , 29, 1402-1419.e8	2
28	Polymer-Mediated Delivery of CRISPR-Cas9 Genome-Editing Therapeutics for CNS Disease. <b>2022</b> , 229-258	0
27	Cancer Gene Therapy. 1-11	0
26	CRISPR-Cas9 Technology for the Creation of Biological Avatars Capable of Modeling and Treating Pathologies: From Discovery to the Latest Improvements. <b>2022</b> , 11, 3615	0
25	Gene editing strategies to treat lysosomal disorders: The example of mucopolysaccharidoses. <b>2022</b> , 191, 114616	0
24	Integration of CRISPR/Cas9 with artificial intelligence for improved cancer therapeutics. <b>2022</b> , 20,	1
23	Visualizing advances in the future of primate neuroscience research. <b>2023</b> , 4, 100064	0
22	CRISPR/Cas systems: Delivery and application in gene therapy. 10,	0
21	Optimization of CRISPR/Cas system for clinical cancer therapy.	0
20	Efficient modification and preparation of circular DNA for expression in cell culture. <b>2022</b> , 5,	2
19	CRISPR: a tool with potential for genomic reprogramming in neurological disorders.	0
18	Genome Editing to Abrogate Muscle Atrophy. <b>2023</b> , 157-176	0
17	Whole genome sequencing of CCR5 CRISPR-Cas9-edited Mauritian cynomolgus macaque blastomeres reveals large-scale deletions and off-target edits. 4,	0
16	Progresses, Challenges, and Prospects of CRISPR/Cas9 Gene-Editing in Glioma Studies. <b>2023</b> , 15, 396	0
15	Genome Engineering in Livestock: Recent Advances and Regulatory Framework. <b>2022</b> , 3, 14-30	0
14	Towards human organ generation using interspecies blastocyst complementation: Challenges and perspectives for therapy. 11,	0
13	Application of CRISPR/Cas9 Technology in Cancer Treatment: A Future Direction. <b>2023</b> , 30, 1954-1976	0
12	A reverse genetic approach in geckos with the CRISPR/Cas9 system by oocyte microinjection. <b>2023</b> , 497, 26-32	0

- 11 Generation of Transgenic Sperm Expressing GFP by Lentivirus Transduction of Spermatogonial Stem Cells In Vivo in Cynomolgus Monkeys. **2023**, 10, 104 ○
- 10 Production of chickens with GFP-knockin in the Z chromosome and detection of GFP-positive chicks in the embryonic stage. ○
- 9 The history, use, and challenges of therapeutic somatic cell and germline gene editing. **2023**, ○
- 8 Dissecting embryonic and extra-embryonic lineage crosstalk with stem cell co-culture. ○
- 7 Immunomodulation— general review of the current state-of-the-art and new therapeutic strategies for targeting the immune system. 14, ○
- 6 AMSTN<sup>Δ</sup>273C mutation with FGF5 knockout sheep by CRISPR/Cas9 promotes skeletal muscle myofiber hyperplasia via MEK-ERK-FOSL1 axis. ○
- 5 Current Approaches to and the Application of Intracytoplasmic Sperm Injection (ICSI) for Avian Genome Editing. **2023**, 14, 757 ○
- 4 Advances in CRISPR/Cas gene therapy for inborn errors of immunity. 14, ○
- 3 Nanotechnology and CRISPR/Cas9 system for sustainable agriculture. ○
- 2 CRISPR-Cas System: The Current and Emerging Translational Landscape. **2023**, 12, 1103 ○
- 1 Precision medicine: Overview and challenges to clinical implementation. **2023**, 513-529 ○