Publication List: Electroporation of Nucleic Acids and Proteins for CRISPR-Related Gene Editing

Gene Pulser® / Gene Pulser Xcell™ / MicroPulser™ Electroporation Systems

2016

**Highly efficient mouse genome editing by CRISPR ribonucleoprotein electroporation of zygotes.**

**Chemical control of grafted human PSC-derived neurons in a mouse model of Parkinson’s disease.**

**Combinatorial metabolic pathway assembly in the yeast genome with RNA-guided Cas9.**

**Human monocytes engage an alternative inflammasome pathway.**

**Activation of RNase L is dependent on OAS3 expression during infection with diverse human viruses.**

**Smad2 and Smad3 have differential sensitivity in relaying TGFβ signaling and inversely regulate early lineage specification.**

**The CRISPR RNA-guided surveillance complex in *Escherichia coli* accommodates extended RNA spacers.**

**Pathogenic variants in PIGG cause intellectual disability with seizures and hypotonia.**
Alternative splicing of MALT1 controls signalling and activation of CD4+ T cells.

The SAGA deubiquitination module promotes DNA repair and class switch recombination through ATM and DNAPK-mediated γH2AX formation.

A non-inheritable maternal Cas9-based multiple-gene editing system in mice.

Knockdown of EPHA1 by CRISPR/CAS9 promotes adhesion and motility of HRT18 colorectal carcinoma cells.

Generation and characterization of a MYF5 reporter human iPS cell line using CRISPR/Cas9 mediated homologous recombination.

Genetic modification in human pluripotent stem cells by homologous recombination and CRISPR/Cas9 system.

Generation and validation of PAX7 reporter lines from human iPS cells using CRISPR/Cas9 technology.

A conserved C-terminal element in the yeast Doa10 and human MARCH6 ubiquitin ligases required for selective substrate degradation.

Generation of human embryonic stem cell line expressing zsGreen in cholinergic neurons using CRISPR/Cas9 system.
### 2015

#### Cloning-free CRISPR.

#### Regulation of gene editing activity directed by single-stranded oligonucleotides and CRISPR/Cas9 systems.

#### Engineering human stem cell lines with inducible gene knockout using CRISPR/Cas9.

#### CRISPR/Cas9-induced disruption of paraflagellar rod protein 1 and 2 genes in *Trypanosoma cruzi* reveals their role in flagellar attachment.

#### Metabolic engineering of *Escherichia coli* using CRISPR-Cas9 mediated genome editing.

#### Targeted disruption of *DNMT1*, *DNMT3A* and *DNMT3B* in human embryonic stem cells.

#### Multiplex CRISPR/Cas9-based genome editing for correction of dystrophin mutations that cause Duchenne muscular dystrophy.

#### Caspase-4 mediates non-canonical activation of the NLRP3 inflammasome in human myeloid cells.