**Gene editing for fun and profit**

**Targeted disruptions**

* **Engineering Arabidopsis resistant to Turnip mosaic virus** [**doi: 10.1111/mpp.12417**](file://localhost/doi/%2010.1111%3Ampp.12417)
* **Engineering plants for gemini virus resistance [doi: 10.1016/j.tplants.](file://localhost/doi/%2010.1016%3Aj.tplants.2016.01.023)**[**2016.01.023**](file://localhost/doi/%2010.1016%3Aj.tplants.2016.01.023)
* **Gene Disruption in *Toxoplasma gondii* Using CRISPR/CAS** [**https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4030483/**](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4030483/)
* **Generation of germline ablated male pigs** [**https://www.nature.com/articles/srep40176**](https://www.nature.com/articles/srep40176)
* **Efficient Gene Knockout in Goats** [**https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4154755/**](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4154755/)
* **Crispr-CAS9 to fix Hb-S [http://www.nature.com/nature/journal/v539/n7629/full/nature20134.html](http://www.nature.com/nature/journal/v539/n7629/full/nature20134.html%22%20%5Ct%20%22_blank)**
* **Crispr-CAS9 to convert fibroblasts to neurons** [**http://www.cell.com/cell-stem-cell/fulltext?S1934-5909(16)30196-5**](http://www.cell.com/cell-stem-cell/fulltext/S1934-5909%2816%2930196-5)
* **BMAL1 knockout macaque monkeys display reduced psychiatric disorders** [**https://academic.oup.com/nsr/article/6/1/87/5290357**](https://academic.oup.com/nsr/article/6/1/87/5290357)

**Targeted improvements**

* **Replacement of an N-efficiency gene with a superior allele** [**doi:10.1111/jipb.12650**](https://doi.org/10.1111/jipb.12650)
* **Improving tomatoes** [**https://doi.org/10.1016/j.cell.2017.08.030**](https://doi.org/10.1016/j.cell.2017.08.030)
* **Improving drought tolerance** [**http://onlinelibrary.wiley.com/doi/10.1111/pbi.12673/full**](http://onlinelibrary.wiley.com/doi/10.1111/pbi.12673/full)
* **Improving seed fatty acid composition** [**http://onlinelibrary.wiley.com/doi/10.1111/pbi.12663/full**](http://onlinelibrary.wiley.com/doi/10.1111/pbi.12663/full)
* **Editing the maize ALS2gene to yield chlorsulfuron-resistant plants** [**https://doi.org/10.1104/pp.15.00793**](https://doi.org/10.1104/pp.15.00793)
* **Improving cold storage and processing traits in potato** [**https://doi.org/10.1111/pbi.12370**](https://doi.org/10.1111/pbi.12370)
* **Producing high oleic and low linolenic soybean oil** [**https://doi.org/10.1186/s12870-016-0906-1**](https://doi.org/10.1186/s12870-016-0906-1)
* **Production of gene-corrected adult beta globin protein in human erythrocytes differentiated from patient iPSCs after genome editing of the sickle point mutation** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4628786/>