

Genome Sciences Seminar

Wednesday, 2.9.22 | 3:30

held remotely: https://depts.washington.edu/gsrestrc/remote.htm



Dr. Dan Voytas

Member, National Academy of Sciences Director, Center for Precision Plant Genomics Professor, Dept. of Genetics, Cell Biology and Development, University of Minnesota Chief Science Officer, Calyxt Inc.

"Overcoming bottlenecks in plant gene editing"

Methods for precisely altering DNA sequences in living cells enable detailed functional analysis of genes and genetic pathways. In plants, targeted genome modification has applications ranging from understanding plant gene function to developing crop plants with new traits of value. Our group has enabled efficient methods for targeted genome modification of plants using sequence-specific nucleases. With zinc finger nucleases (ZFNs), TAL effector nucleases (TALENs), and the CRISPR/Cas9 system, we have achieved targeted gene knockouts, replacements and insertions in a variety of plant species. Our current work is focused on optimizing delivery of nucleases and donor DNA molecules to plant cells to more efficiently achieve targeted genetic alterations.

https://www.voytaslab.com/

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Seminar website at http://www.gs.washington.edu/news/seminars.htm

The University of Washington is committed to providing access, equal opportunity and reasonable accommodations in its services, programs, activities, education and employment of individuals with disabilities. To request disability accommodations contact the Disability Services Office at least ten days in advance at: 206.543.6450/V,206.543.6452/TTY, 206.685.7264 (FAX), or e-mail at dso@u.washington.edu