

## **UW-Madison Human Stem Cell Gene Editing Service** A campus resource for applying CRISPR/Cas9 in human pluripotent stem cells

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### Who we are

The UW-Madison Human Stem Cell Gene Editing Service, located at the Waisman Center and in conjunction with the iPS Core, will provide **CRISPR/Cas9** gene editing of human pluripotent stem cells (hPSCs) to UW-Madison researchers



Ph.D. Scientist



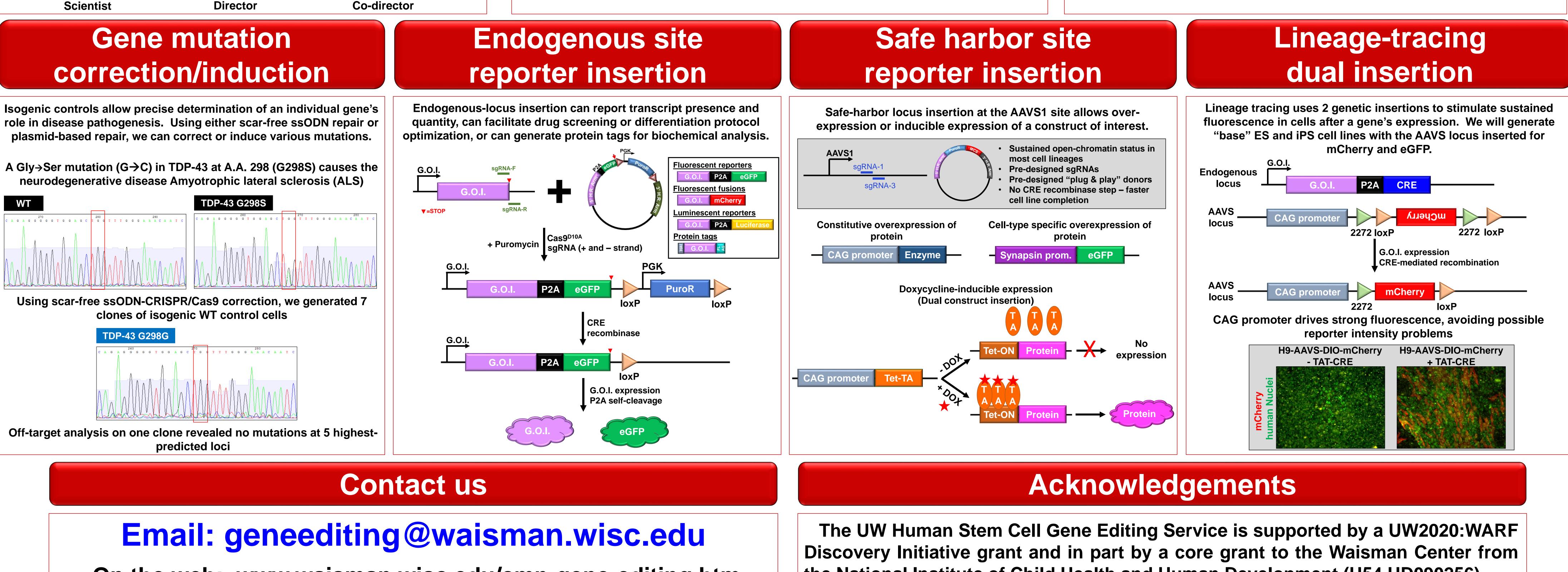
Anita Bhattacharyya Ph.D. Director



## **Gene mutation**

plasmid-based repair, we can correct or induce various mutations.

neurodegenerative disease Amyotrophic lateral sclerosis (ALS)



### Why we exist

Su-Chun Zhang M.D., Ph.D.

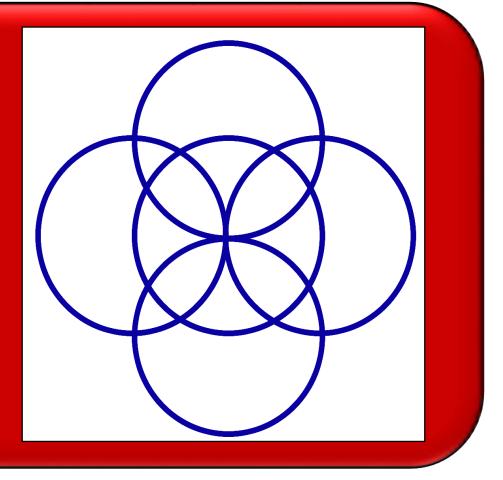
The development of CRISPR/Cas9 gene editing has altered how stem cell science is done. This technology allows quick and efficient generation of transgenic or isogenic lines for nearly unlimited research purposes that have previously been unfeasible.

While we believe every researcher should have access to this technology, individual labs should not have to adopt the technology to reap the rewards. As a core service, we will serve as the experts in generating cell lines so labs can focus on addressing underlying scientific questions.

# On the web: www.waisman.wisc.edu/cmn-gene-editing.htm

For each transgene or SNP correction, we will provide the following: At least three positive clones At least one sequence-verified clone **Off-target analysis for each guide RNA** Mycoplasma testing (through WiCell) Karyotyping (through WiCell-extra charge) All available information for publication Method and protocol > Sequence files (genomic, plasmid, primer) > Off-target analysis results

the National Institute of Child Health and Human Development (U54 HD090256).



### What we deliver