



# Induction of targeted, heritable mutations in barley and *Brassica oleracea* using RNA-guided Cas9 nuclease

*Oldham Press*

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## **Induction of targeted, heritable mutations in barley and Brassica oleracea using RNA-guided Cas9 nuclease** Oldham Press

The RNA-guided Cas9 system represents a flexible approach for genome editing in plants. This method can create specific mutations that knock-out or alter target gene function. It provides a valuable tool for plant research and offers opportunities for crop improvement. We demonstrate the use of RNA-guided Cas9 to generate mutations in target genes of both barley and *B. oleracea* and show stable transmission of these mutations thus establishing the potential for rapid characterisation of gene function in these species. In addition, the off-target effects reported offer both potential difficulties and specific opportunities to target members of multigene families in crops.

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