

# GENE EDITING TO PROVIDE INSECT RESISTANCE IN CROPS

Tech ID: 32695 / UC Case 2022-085-0

## PATENT STATUS

Patent Pending

## BRIEF DESCRIPTION

Plants rely on systemic signaling mechanisms to establish whole-plant defense in response to insect and nematode attack. The Glutamate receptor-like (GLR) genes have been implicated in long-distance propagation of wound signals to initiate accumulation of defense hormone jasmonate (JA) at undamaged distal sites.

UCB researchers have shown the ability to desensitize GLR channels, providing a potential target for engineering anti-herbivore defense in crops.

## SUGGESTED USES

Gene editing of plants for enhanced insect resistance

## CONTACT

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## INVENTORS

» Luan, Sheng

## OTHER INFORMATION

### CATEGORIZED AS

- » **Agriculture & Animal Science**
- » Other
- » Transgenics
- » **Biotechnology**
- » Genomics

### RELATED CASES

2022-085-0