



The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure

Title:

Application of the GmRD22 Gene and Its Product from Soybean to Enhance Tolerance toward Salinity and Drought Stresses in Plants

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Inventor(s):

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Patent Status:

- US Patent Pending
- Chinese Patent Pending
- HK Standard Patent Pending

Non-confidential abstract:

Salinity and drought stresses posed a severe problem to agriculture worldwide. Both stresses will lead to physiological drought and cause damage to plant cells, resulting in retarded plant growth and consequently a reduction in crop yield. We cloned and characterized the GmRD22 gene from soybean. This gene is induced by both salt and drought treatment. Expression of this gene in transgenic rice can improve salinity and drought tolerance. Transgenic rice expression this gene could tolerate salt up to 2%. Therefore, this novel class of seed maturation protein gene and their gene products can be used to improve salt and drought tolerance in plants, cell cultures, and cell lines.

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