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## An insight into the molecular mechanism of glutathione-ethylene interplay in plant defense

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**P**lutathione (GSH) is a tripeptide (γ-L-glutamyl-L-cysteinylglycine) that plays a central role in plant defense. It is synthesized from L-cysteine and L-glutamate. GSH is involved in the detoxification of reactive oxygen species (ROS) and reactive sulfur species (RSS) produced during plant defense. GSH is also involved in the synthesis of phytoalexins and glucanase. GSH is involved in the regulation of ethylene (ET) biosynthesis. GSH is involved in the regulation of ACC (1-aminocyclopropane-1-carboxylate) synthase (ACS) and ACC oxidase (ACO). GSH is involved in the regulation of ACS2, ACS6, and ACO1. GSH is involved in the regulation of WRKY33, ACO1, RNA, and ACO1. GSH is involved in the regulation of S-H, S-ACS2, ACS6, F, and GSH. GSH is involved in the regulation of ET, ET, and ET. GSH is involved in the regulation of ET, ET, and ET.

### Biography

of Glutathione and its role in plant defense since 2011 and has recently submitted her PhD thesis from CSIR-Indian Institute of Chemical Biology, India. She has published 14 papers in reputed international journals. At present, she is an Assistant Professor in Botany, Govt. General Degree College, New Town, India and a Visiting faculty in the Post-graduate Department of Botany, Barasat Govt. College, India.

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