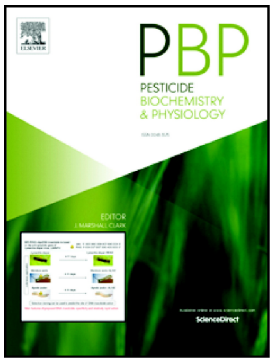

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Quinclorac resistance induced by the suppression of the expression of 1-aminocyclopropane-1-carboxylic acid (ACC) synthase and ACC oxidase genes in *Echinochloa crus-galli* var. *zelayensis*

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Abbreviations[1]

[1] (Boc-aminooxy)acetic acid, AOA; 1-aminocyclopropane-1-carboxylate synthase, ACS; 1-aminocyclopropane-1-carboxylate oxidase, ACO; 1-aminocyclopropane-1-carboxylic acid, ACC; reactive oxygen species, ROS; superoxide dismutase, SOD; catalase, CAT; ascorbate peroxidase, APX; glutathione reductase, GR; S-adenosylmethionine, SAM; real-time polymerase chain reaction, real-time PCR