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Identification of seven *polyamine oxidase* genes in tomato (*Solanum lycopersicum* L.) and their expression profiles under physiological and various stress conditions

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Abstract (211 words)

Polyamines (PAs) are implicated in developmental processes and stress responses of plants. Polyamine oxidases (PAOs), flavin adenine dinucleotide-dependent enzymes that function in PA catabolism, play a critical role. Even though PAO gene families of *Arabidopsis* and rice have been intensely characterized and their expression in response to developmental and environmental changes has been investigated, little is known about PAOs in tomato (*Solanum lycopersicum*). We found seven *PAO* genes in *S. lycopersicum* and named them *SlPAO1*~7.

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