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## Roles of cytokinins in root growth and abiotic stress response of *Arabidopsis thaliana*

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摘要	The root is an important vegetative plant organ. The root growth directly determine the growth and development of the shoots and affect the yield of crops. As one of the classic phytohormones, cytokinins, which promote cell division and regulate nutrient transport, are primarily synthesized in plant root tips. In recent years, increasing studies have found that cytokinins have different effects on growth and development of plant roots through signal transduction pathways or related receptors. Furthermore, cytokinins play an indispensable role in the abiotic stress response. This review provides a general overview of current progress in understanding the regulation mechanisms of cytokinins on the root growth and development, as well as abiotic responses of <i>Arabidopsis thaliana</i> , to establish a foundation for future scientific research.
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