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## Mechanism of elicitors' activity in plant cell and tissue culture for production of secondary metabolite

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One of the large and diverse groups of biological compounds that produced in plant cells are secondary metabolites or bioactive constituents. These components play important roles in fields of pharmacology, bio-herbicides, bio-colors, toxins, hallucinogenic substances and bio-fragrances. These capacity and features of secondary metabolites make them attractive for use in biotechnology. Plant cells show physiological and morphological responses to microbial, physical or chemical factors which are as 'elicitors'. Plant cell suspension and hairy root culture elicitation are the most applied and talented alternatives method to production of secondary metabolites, which has been a subject of attention in many investigations. The present review summarizes the classification of elicitors, mechanisms of elicitors' activity, and applications for the production of secondary metabolites in plant cell and tissue culture.

## Biography

Seyed Mohammad Hashemi completed his MSc from Azad University of Tabriz and MSc studies from University of Tehran. He has ranked 6<sup>th</sup> in Plant Biotechnology Graduate Program Entrance Exam among more than 2500 participants (2013). He has published more than 5 papers in reputed journals.

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