

EXPLORATION OF RECENT PROGRESS OF PLANT SYNTHETIC BIOLOGY FOR PLANT NATURAL PRODUCTS

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Plant natural products (PNPs) are Abundantly used in various fields which include health products, medicines, food additives, cosmetics, biofuels, flavors and other agriculture as well as industrial sectors and reservoirs of large number of compounds. With increase of the world population, it has become very difficult to satisfy our demands of daily life within the limited resources. Growing of specific plant in limited land, time and other obstacles made scientists and researchers to think an alternative way. Scientists have been continuously trying to construct infrequent plant natural products having complex structures at large scale by developing new strategies for creating cell factories artificially. Synthetic biology is a focus research area in recent trends for artificially alteration of possible biosynthetic pathway of the target molecule. Designing of synthetic biology cycle, construction of various strategies and methodology of different plant cells to modify biosynthetic pathway of secondary metabolite production is very important for synthetic biologists. This work will boost young researchers to work for betterment of the human society. The present article will discuss recent progress of synthetic biology in the field of Natural products, different strategies and methodologies of different plant species and their prospects.
