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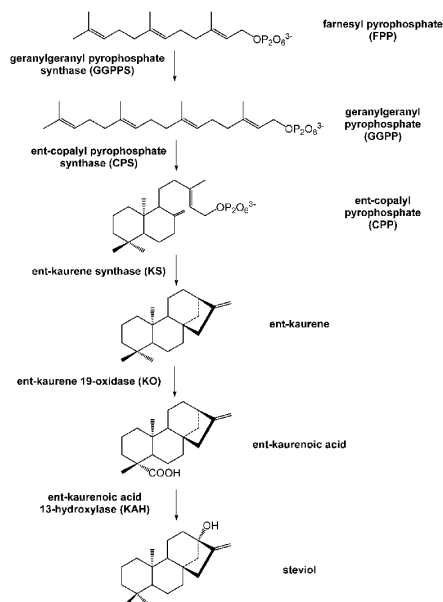
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(54) Title: ABC TRANSPORTERS FOR THE HIGH EFFICIENCY PRODUCTION OF REBAUDIOSIDES

Figure 1



(57) **Abstract:** Provided herein are genetically modified host cells, compositions, and methods for improved production of steviol glycosides. In some embodiments, the host cell is genetically modified to comprise a heterologous nucleic acid expression cassette that expresses an ABC-transporter capable of transporting steviol glycosides to the extracellular space or to the luminal space of an intracellular organelle. In some embodiments, the host cell further comprises one or more heterologous nucleotide sequence encoding further enzymes of a pathway capable of producing one or more steviol glycosides in the host cell. The host cells, compositions, and methods described herein provide an efficient route for the heterologous production of steviol glycosides, including but not limited to, rebaudioside D and rebaudioside M.

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