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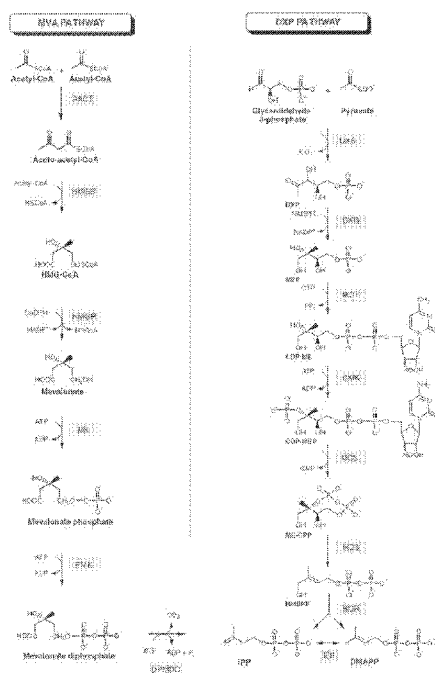
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(54) Title: INCREASED ISOPRENE PRODUCTION USING THE ARCHAEAL LOWER MEVALONATE PATHWAY

Figure 19A

(57) Abstract: The invention features methods for producing isoprene from cultured cells using a feedback-resistant mevalonate kinase polypeptide, such as an archaeal mevalonate kinase polypeptide from *Methanosarcina mazei*. The resulting isoprene compositions may have increased yields and/or purity of isoprene.



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