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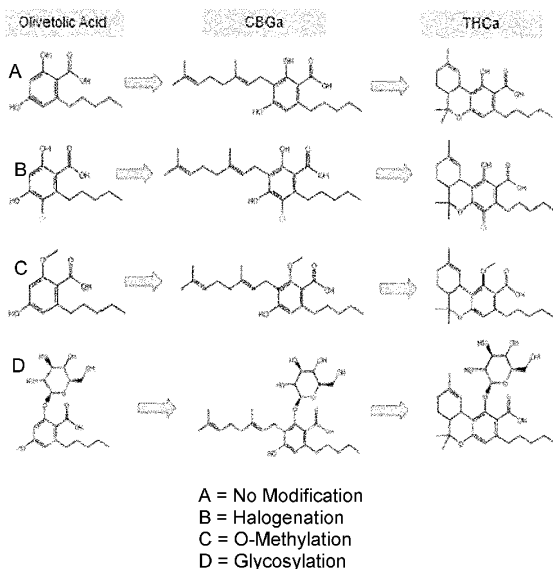


FIGURE 1

(57) Abstract: The present disclosure relates generally to meth-
ods and cells for the production of substituted phytocannabinoids
or substituted phytocannabinoid precursors in host cells that pro-
duce the phytocannabinoid or the phytocannabinoid precursor.
Methods are described which comprise transforming host cells
with a sequence encoding an enzyme for derivatizing the phyto-
cannabinoid or precursor with a substituent, such as O-methyl,
glycosyl, or halogen. The transformed cells are cultured to pro-
duce substituted phytocannabinoids or substituted phytocannabin-
oid precursors.

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