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(54) Title: BIOSYNTHESIS OF CANNABINOID FROM CANNABIGEROLIC ACID USING NOVEL CANNABINOID SYNTHASES

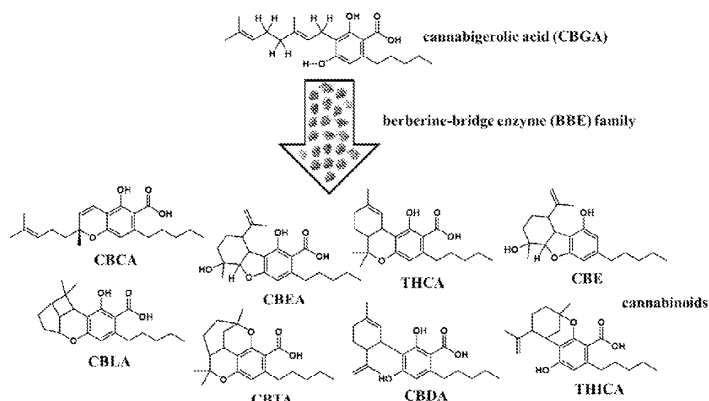


Fig. 1

(57) Abstract: A method for producing a cannabinoid by contacting cannabigerolic acid with a cannabinoid synthase orthologue. The cannabinoid synthase orthologue is from an organism other than *Cannabis sativa*. Also disclosed is a recombinant cell of *Saccharomyces cerevisiae* or *Pichia pastoris* that includes in its genome a nucleic acid encoding the above cannabinoid synthase orthologue. The cannabinoid synthase orthologue is expressed in the recombinant cell in an active form.



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