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Studies directed towards synthesis of leprostatic agent desoxyfructoserotonin

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Leprosy is an infectious chronic disease and a neglected tropical disease induced by *Mycobacterium leprae*, and mainly affects the skin, peripheral nerves, upper respiratory mucosa and eyes. The prolonged physical deformities associated with leprosy get progressively worse with delayed diagnosis and increasing age. In this paper we report synthesis of Desoxyfructoserotonin which is a leprostatic agent, using 5-methoxy indole and the desired chiral centres have been incorporated using naturally obtained sugar moiety (D)-mannitol employing Vilsmeier-Haack reaction and Henry reactions.

Keywords: Hanson's disease, Desoxyfructoserotonin, Vilsmeier-Haack reaction, Henry reaction