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(54) Title: GLYCOENGINEERING USING LEISHMANIA CELLS

(57) Abstract: The present application relates to *Leishmania* cells genetically engineered such that the formation of an O-linked GlcNAc on a polypeptide in the *Leishmania* cell is reduced or eliminated. The formation of the O-linked GlcNAc may be catalyzed in the *Leishmania* cell prior to said genetic engineering by at least one N-acetylglucosamine (GlcNAc)-transferase. Also provided herein are methods of making a polypeptide using a *Leishmania* cell described herein and polypeptides produced by the methods provided herein.

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