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(54) Title: METHODS FOR IDENTIFYING AND TREATING DISEASES

(57) Abstract: Provided are methods for assessing aberrant glycosphingolipid processing, and methods for determining the severity and/or progression of diseases associated therewith. Also provided are methods for assessing the likely therapeutic response of a subject to treatment with agents that can modulate glycosphingolipid processing, as well as therapeutic methods which benefit from assessing the patient in accordance with the disclosure. The methods of the disclosure employ an agent (e.g., conduritol- β epoxide) which can challenge the glycosphingolipid pathway in a cell, followed by monitoring the recovery of the cell, e.g., monitoring the restoration of glycosphingolipid flux in the cell.



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