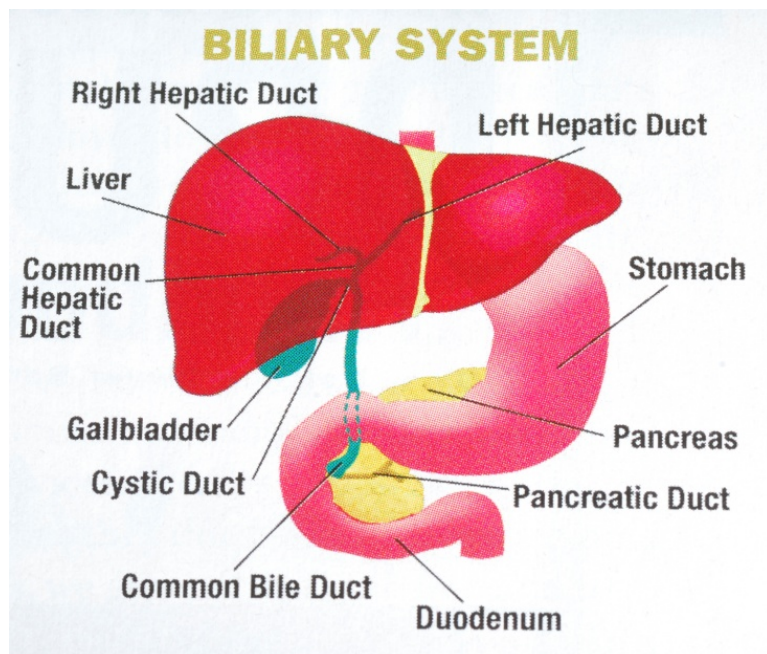




Novel Synthesis of Alkylated Bile Acids



DESCRIPTION

Farnesoid X receptor (FXR) is a nuclear receptor which regulates the expression of bile acid. It is very important for the metabolism of bile, cholesterol, and lipoproteins. There are many potent naturally acting as well as synthetic compounds used as antagonists of FXR receptors for treating atherosclerosis, diabetes and cholestatic diseases. However, there are many limitations of those antagonists such as poor pharmacokinetics, high cost of production and extreme inefficiency. Therefore, there was a need for a more efficient and economic methodology for the synthesis of the already available compounds as well as similarly alkylated bile acid derivatives to better conduct drug discovery research in this area.

This technology is a highly efficient and inexpensive method for synthesizing alkylated bile acid derivatives which can be suitable for large-scale, industrial production.

KEY ASPECTS

- The technology provides improved method of synthesizing bile acid derivatives
- The method can be used for designing simple and economical pathway suitable for a large-scale manufacturing of alkylated bile acid derivatives
- Can be also used as synthesizing research grade material or even therapeutic grade material

INTELLECTUAL PROPERTY

Title	US Application Number	Filed
Novel method of synthesizing alkylated bile acid derivatives	12/125,499	5/22/2008

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