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(54) **Title**: CELLS DEFICIENT IN CMP-N-ACETYLNEURAMINIC ACID HYDROXYLASE AND/OR GLYCOPROTEIN ALPHA-1,3-GALACTOSYLTRANSFERASE

(57) **Abstract**: The present invention provides non-human mammalian cell lines that are deficient in CMP-Neu5Ac hydroxylase (Cmah) and/or glycoprotein alpha-1,3-galactosyltransferase (Ggta1). Also provided are methods for using the cells disclosed herein for producing recombinant proteins with human-like patterns of glycosylation.