

18th Biotechnology Congress

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Designing long acting agonists and antagonists of glycoprotein hormones using site directed mutagenesis and gene transfer; from the bench to bedside

Glycoprotein hormones (FSH, LH, hCG and TSH) are a family of heterodimeric proteins composed of two non-covalently linked subunits; α and β . Glycoproteins are used clinically in the treatment of many diseases. One major issue regarding the clinical use of many peptides is their short half-life due to the rapid clearance from the circulation. To overcome this problem, we succeeded to ligate the signal sequence of *O*-linked oligosaccharides to the coding sequence of the hormones. The cassette

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