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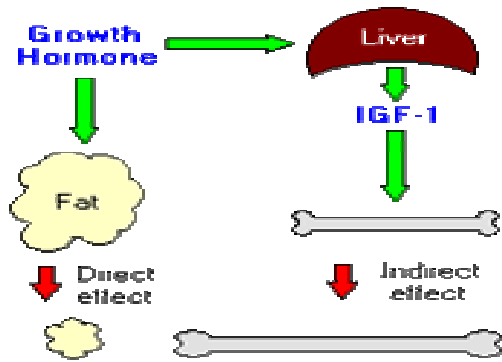
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» (Growth Hormone)  
«(Growth Hormone Releasing Hormone)

(somatostatin)



(Insuline-like Growth Factor one = IGF-1)

IGF-1



(dwarfism)

(Giantism)

(Acromegaly)

( )

IGF-1

IGF-1

( )

(Crommelin and Sindelar, 2002).

CJD (CJD)

CJD

:(Brown, 1990)

mRNA

: hGH cDNA

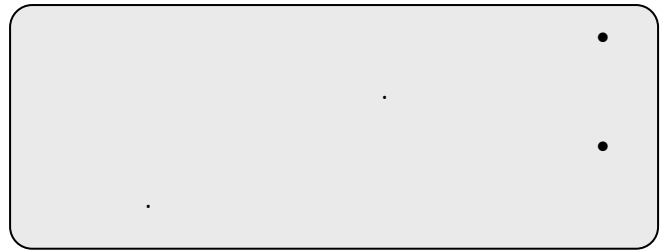
GH

rGH

cDNA

hGH

hGH cDNA(Hae III)



hGH

*E. coli*

cDNA

cDNA

Durk

:(stimulants)

(*lac*)

Sandy Shaw Pearson

(Met-hGH)

pH

GMO

(Shafiee and Rezaee 2005)

bacterial leader sequence



(Genetically Engineered Microorganisms)

Mashreghi. and )

(Hashemi Tabar 2005)

**(rGH therapy)**

(Lantos *et al.*, 1989)

%

Allen and Fost, 1990, )

(Kaplan *et al.*, 1986)

(Underwood, 1984

rGH

)

(Fassler, 1985

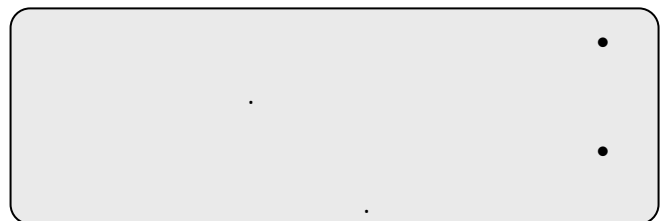
(Walker *et al.*, 1990)

)

Grunt )

(

(and Schwartz, 1992



IGF-)

(1

rGH

(Malozowski *et al.*, 1993)

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(Brook *et al.*, 2000)

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