

**BT 605 Gene Therapy (3 0 0 6)**

**Pre-requisites: Nil**

Expanded definitions; objectives and targets; designing of gene-therapy vectors and its applications; gene-therapy for inherited metabolic diseases, cancer and HIV.

**References:**

1. Lipps HJ, Jenke AC, Nehlsen K, Scinteie MF, Stehle IM, Bode J Gene, *Chromosome-based vectors for gene therapy*. 2003 Jan 30; 304 (1-2): 23-33.
2. Shuey DJ, McCallus DE, Giordano T. Drug, *RNAi: gene-silencing in therapeutic intervention*. *Discov Today*, 2002 Oct15; 7(20): 1040-6.
3. Wu D, Razzano P, *Gene therapy and tissue engineering in repair of the musculoskeletal system*. Grande DA. *J Cell Biochem* 2003; 88(3): 467-81.
4. Dong H, Anthony K, Morral N, *Challenges for gene therapy of type1 diabetes*. *Curr Gene Ter* 2002 Dec; 2(4): 403-14.
5. Cooper, Geoffrey M. Sunderland, Massachusetts, *The Cell-A Molecular Approach*. 2<sup>nd</sup> ed. Sinauer Associates, Inc, 2000.
6. Lodish, Harvey; Berk, Arnold; Zipursky, S. Lawrence; Matsudaire, Paul; Baltimore, David; Darnell, James E, *Molecular Cell Biology*. 4<sup>th</sup> ed. New York: W H Freeman & Co., 2000.