HLA SYSTEM

Definition of a *GRAFT*: Transfer of an organ/tissue, on individual to another <u>OR</u> from location within the same individual

Types of Graft:

- Auto-graft (Done in the same individual)
- Allograft (Done between 2 genetically individuals)
- Isograft (Done between 2 identical twins)

NOTE:

Zenograft: Done between 2 genetically different species

Example: Dog and Cat

Response of Immune system to each graft:

AUTOGRAFT:

- Always accepted
- It has identical HLA marker
- The immune system will recognize it as self

ALLOGRAFT:

- Rejected
- It has different HLA markers
- The immune system will recognize it as non self

ISOGRAFT:

- Usually accepted
- 100% success

Non-self:

- → Harmless substances (EX: Dust)
- →Graft
- → Pathogen microbes
 - Bacteria
 - Virus
 - Parasites
 - Fungi