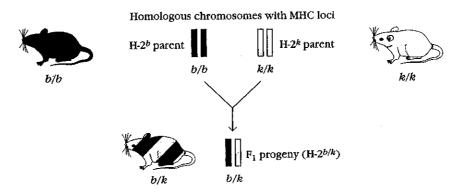
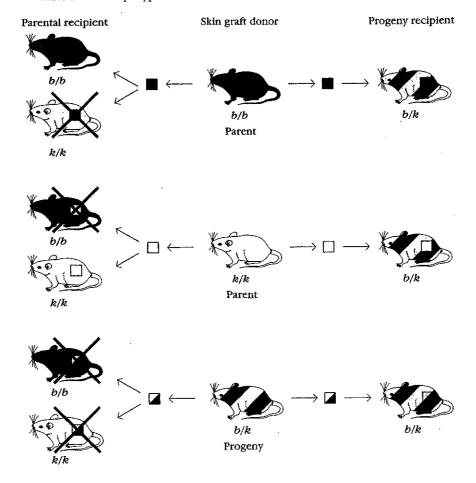
# Lois de la transplantation

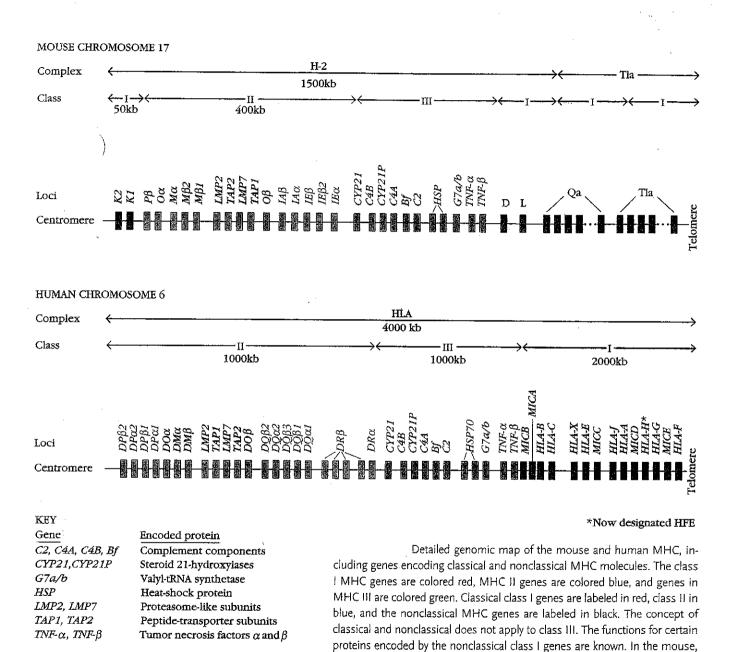
(a) Mating of inbred mouse strains with different MHC haplotypes



(b) Skin transplantation between inbred mouse strains with same or different MHC haplotypes



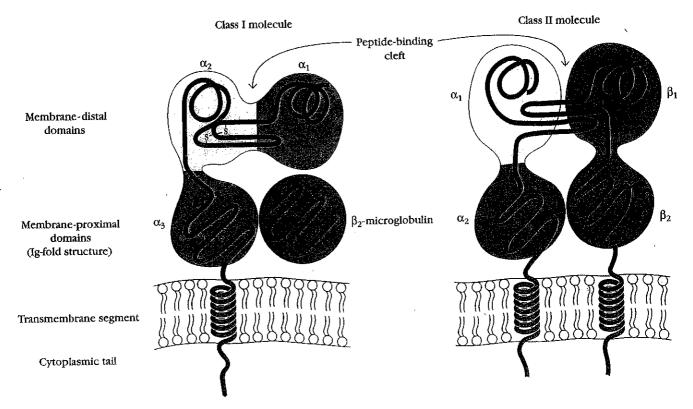
Tiré de goldsby, Kindt, Osborne et Kuby Immurology, 5th Edition, Freeman



there are nonclassical genes located downstream from Tla that are not shown.

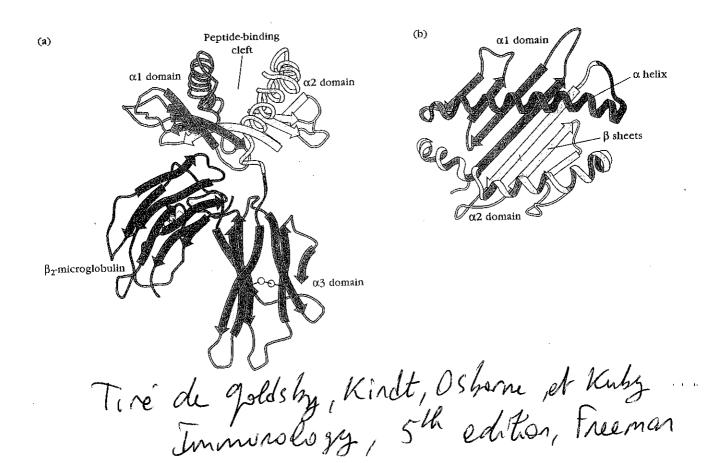
Tive de Immunology- Joldsby Kirth, Osborne et Kurby

5th Editor, Freeman-



Schematic diagrams of a class I and a class II MHC molecule showing the external domains, transmembrane segment, and cytoplasmic tail. The peptide-binding cleft is formed by the membrane-distal domains in both class I and class II molecules. The

membrane-proximal domains possess the basic immunoglobulinfold structure; thus, class I and class II MHC molecules are classified as members of the immunoglobulin superfamily.



### Rédume

Complex	H~2							
MHC class		п			Ш			I :
Region	K IA IB S			D				
Gene products	Н-2К	ΙΑ αβ	IE αβ	C proteins	3	TNF-α TNF-β	H-2D	H-2L

#### Human HLA complex

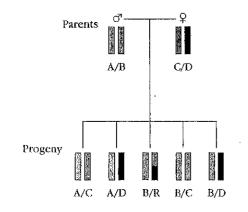
Complex	HLA							
MHC class	u m							
Region	DP DQ	DR	C4, C	В	С	A		
Gene products	DP DQ αβ αβ	DR αβ	C' proteins	TNF-α TNF-β	HLA-B	HLA-C	HLA-A	

## Haplotypes

		Haplotype	H-2 ALLELES					
Prototype strain	Other strains with the same haplotype		К	IA	IE	S	D	
CBA	AKR, C3H, B10.BR, C57BR	k	k	k	k	k	k	
DBA/2	BALB/c, NZB, SEA, YBR	d	d	d	d	d	d	
C57BL/10 (B10)	C57BL/6, C57L, C3H.SW, LP, 129	b	Ь	Ь	ь	ь	Ь	
Α	A/He, A/Sn, A/Wy, B10.A	a	k	k	k	d	d	
A.SW	B10.S, SJL	s	s	s	s	S	s	
A.TL		<b>t</b> 1	2	k	k	. <b>k</b>	d	
DBA/1	STOLI, B10.Q, BDP	q	q	9	9	9	q	

## Recombinaison

#### (c) Inheritance of HLA haplotypes in a typical human family



### (d) A new haplotype (R) arises from recombination of maternal haplotypes

		HLA Alleles						
		A	В	С	DR	ρQ	DP	
Haplotypes	Å		÷	w.	1.2	, di		
	В	2.	16	10.2				
	С		34					
	D	11	35	wI	7	3	Ą	
	R				7	3	Ą	

Tiré de Goldsby, Kndt, Oshorne et Kuby Immunology, 5th edition, Freeman

