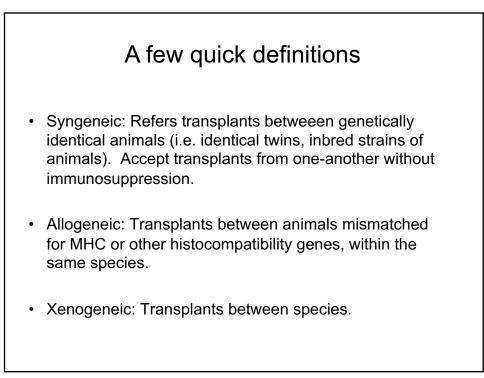
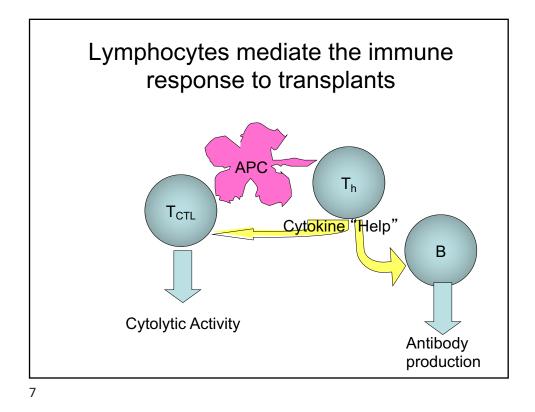
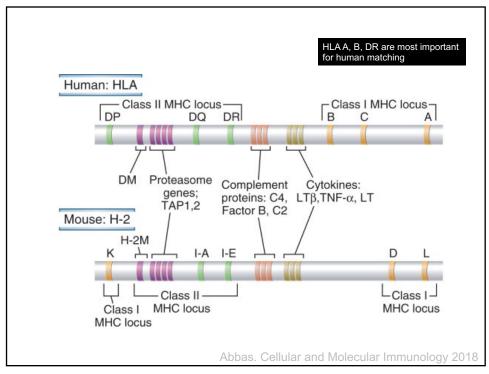


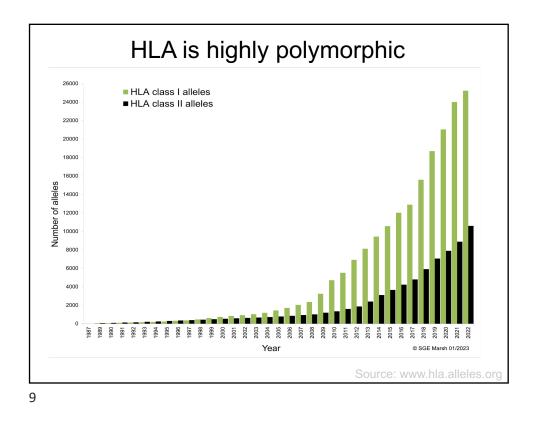
Outline

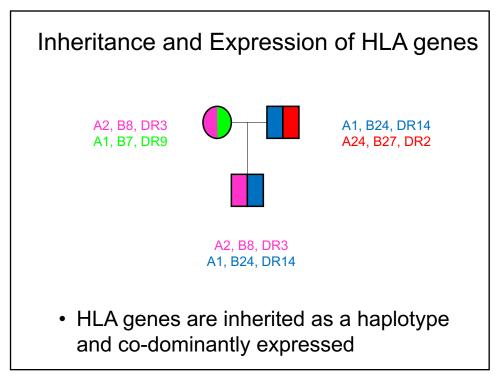
- MHC / HLA
- Direct vs indirect allorecognition
- · Alloreactive cells: where do they come from?
- Immunosuppression
- · Xenotransplantation
- Tolerance

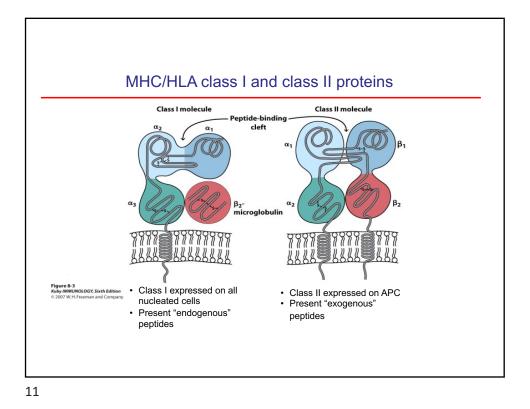




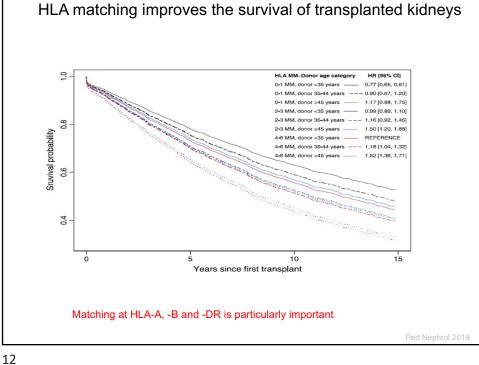


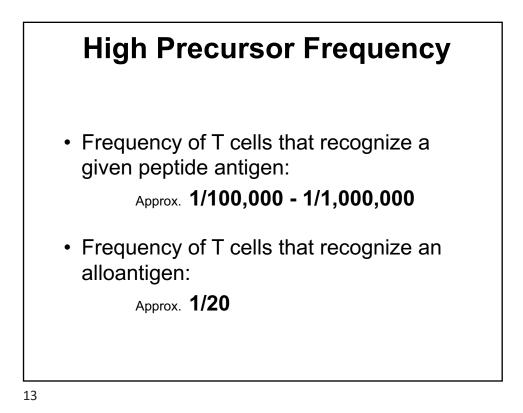


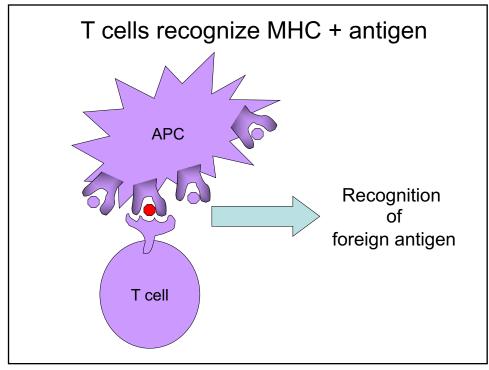


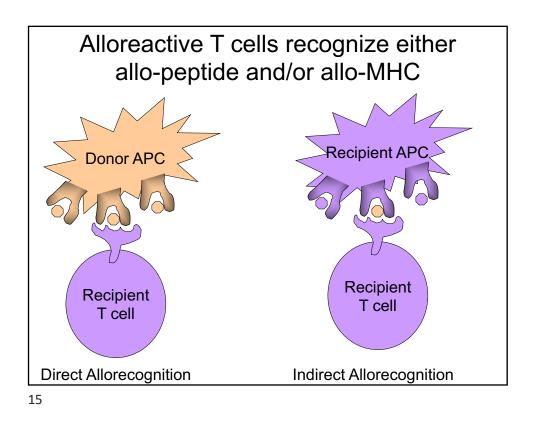


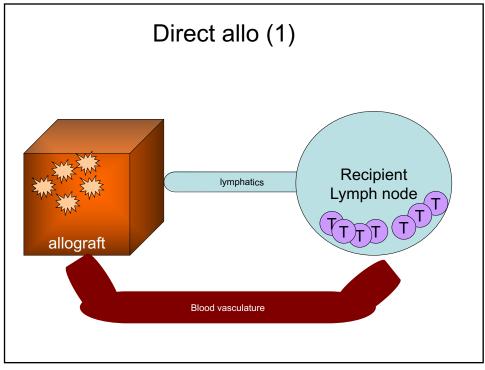


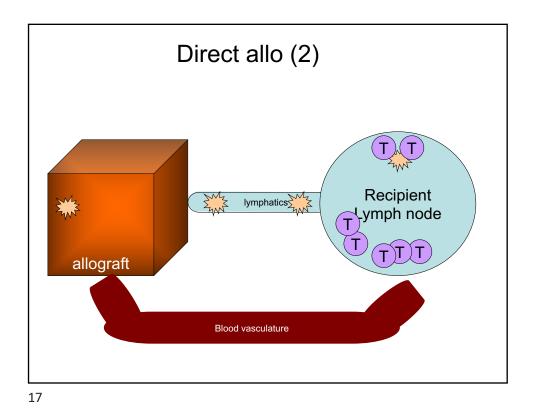


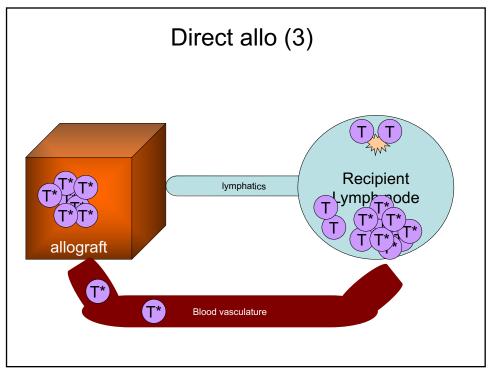


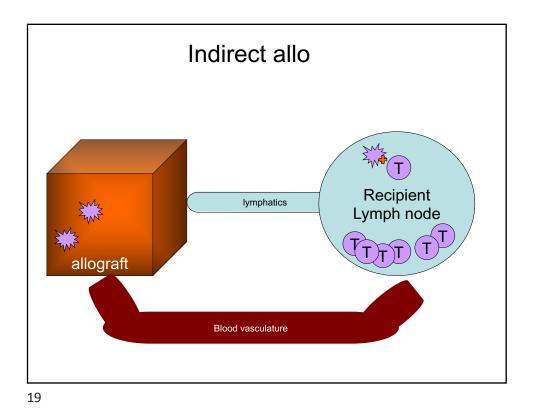


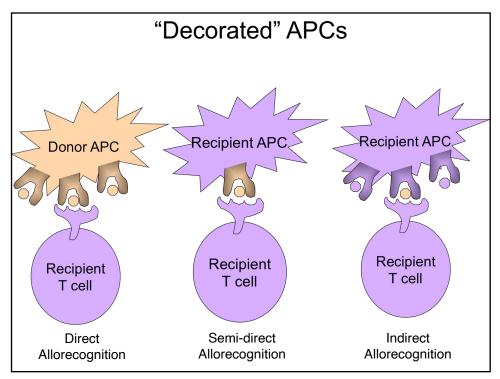


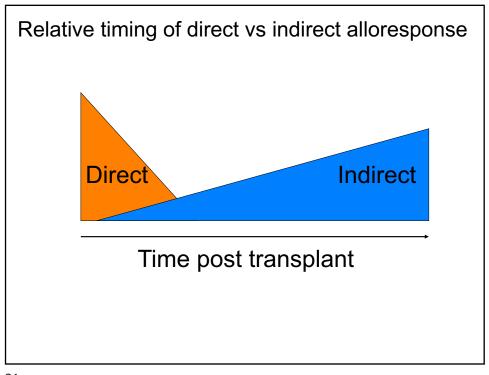


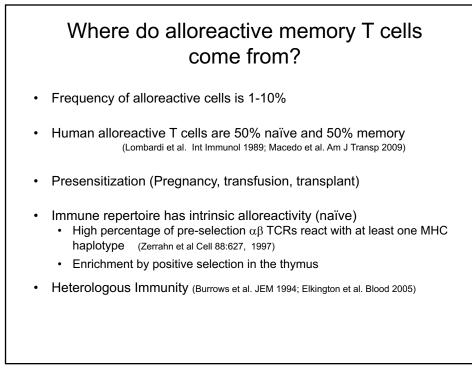


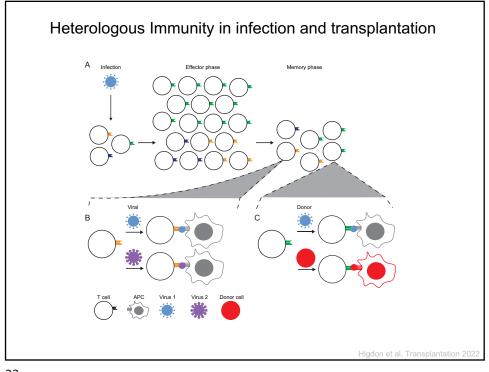


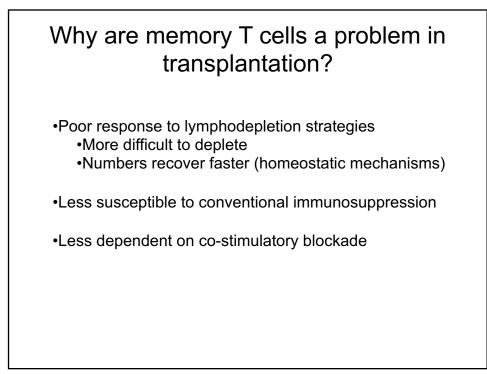




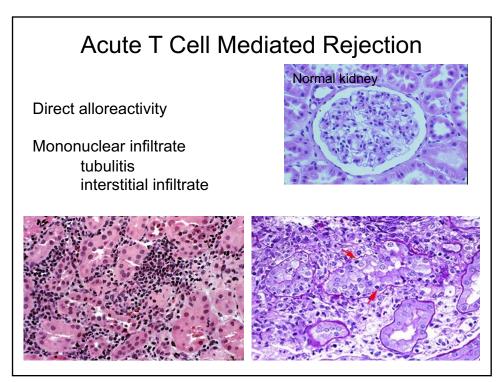


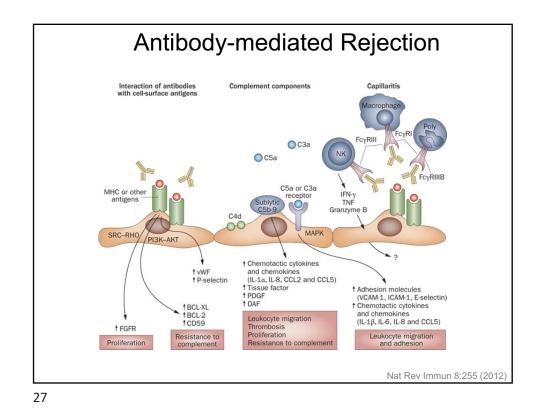


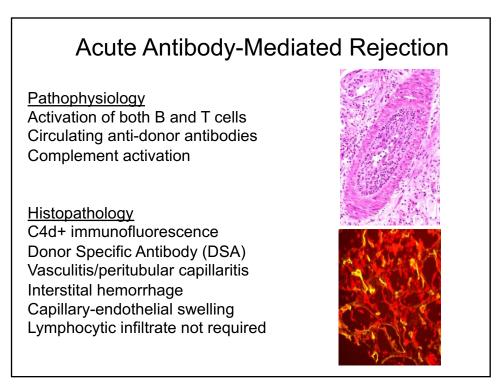


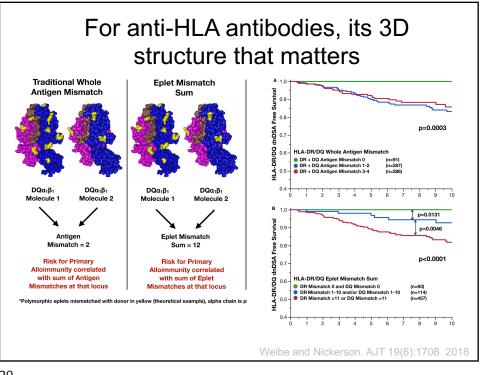


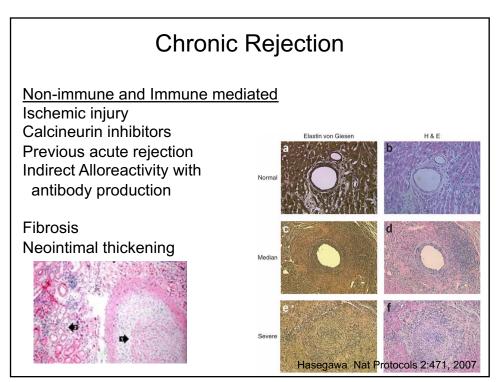
	Hyperacute	Acute Humoral	Acute Cellular	"Chronic"
Time Frame	Minutes	Days to weeks	Days to weeks	Years
Mediated by	Preformed Antibody	Antibody	T cells	Immune + Non-immune
Prevention/ treatment	Test PRA/cross- match	Immuno- suppression	Immuno- suppression	Immuno- suppression avoid damage

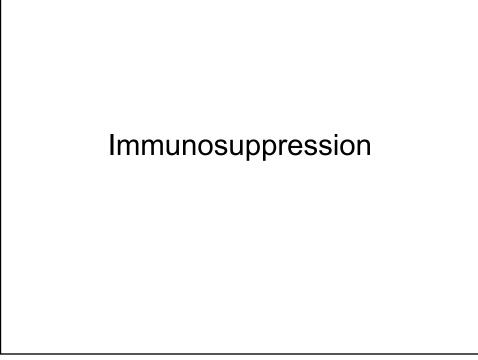


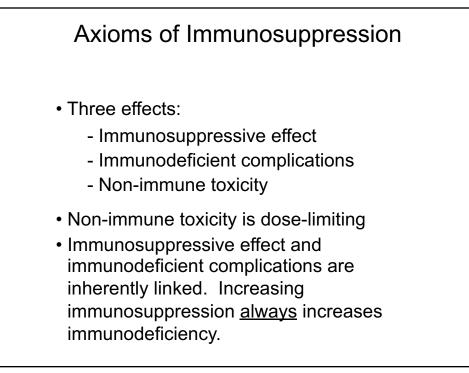


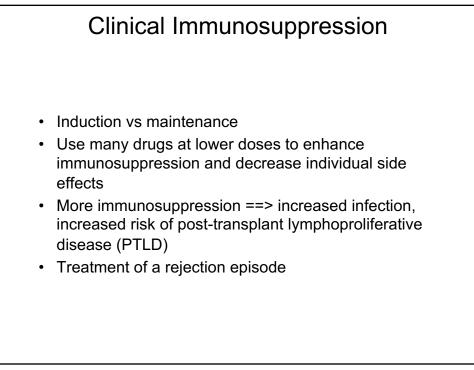


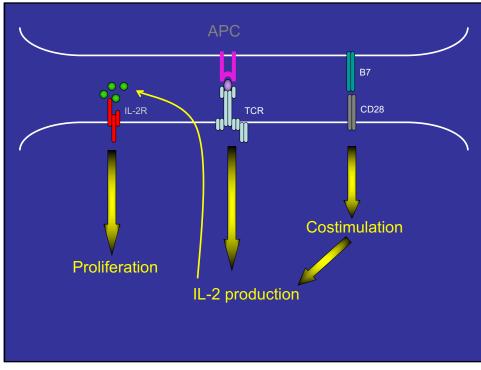


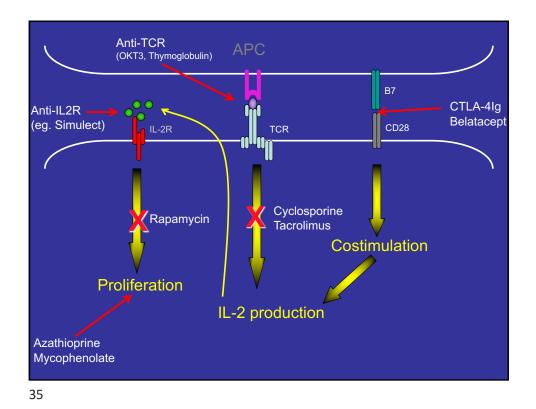


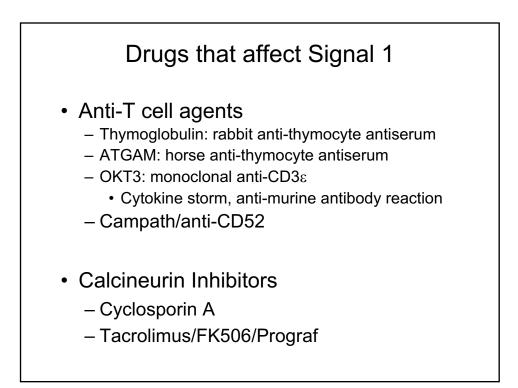


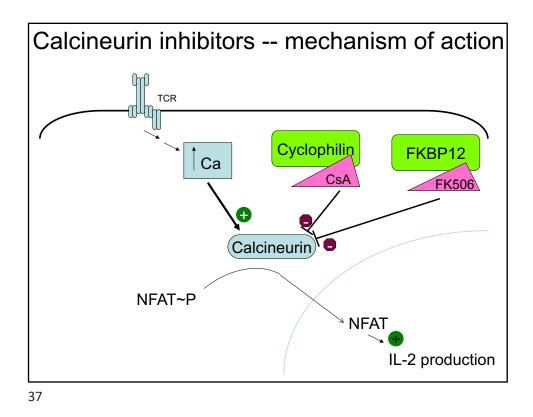


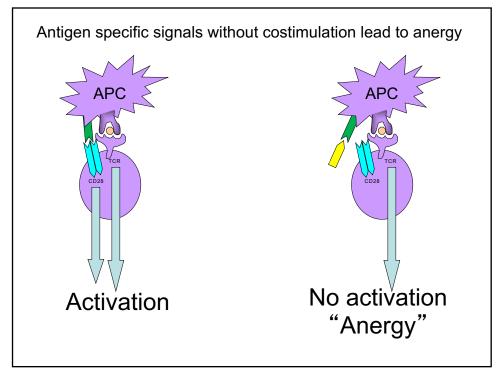












Costimulatory Inhibition CTLA4-Ig

- Binds to B7-1 and B7-2 inhibiting stimulation of CD28
- Induces T cell anergy in mice
- Abetacept -- failed in primate transplant setting but currently used in RA
- Belatacept developed by mutagenesis and is 10x increased binding affinity

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