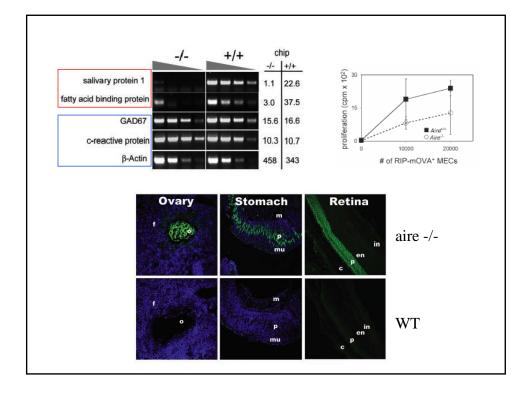
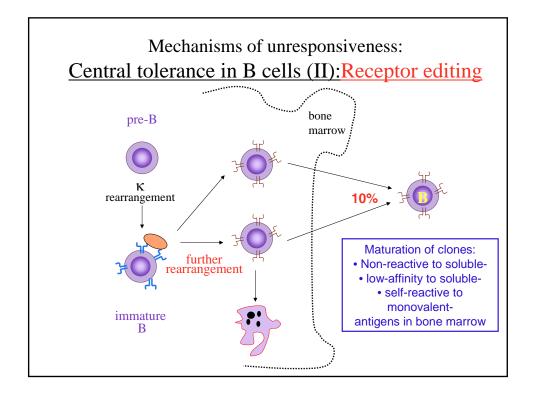
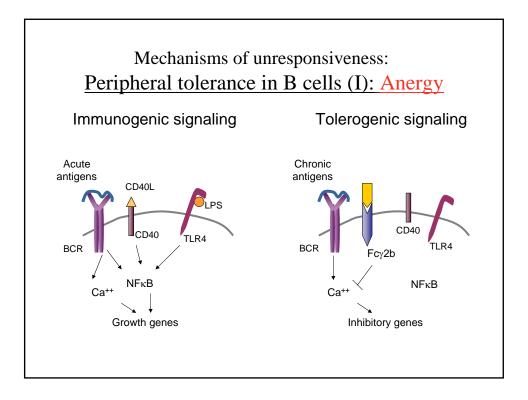


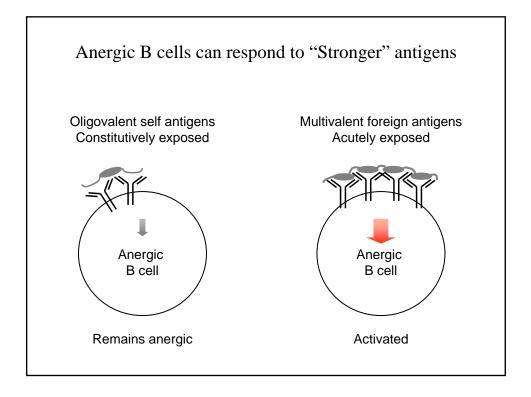
AIRE: <u>Autoi</u>mmune <u>regulator</u>.

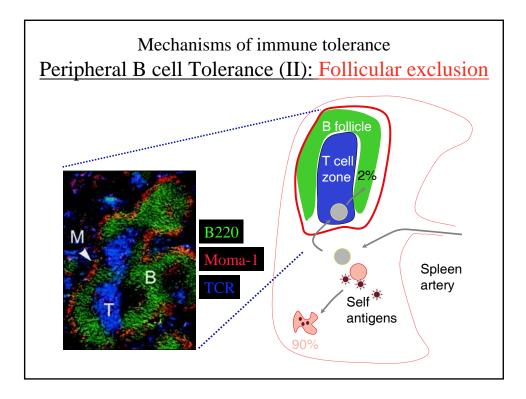
- Transcription factor.
- Expressed at a high level by thymic medullar epithelium cells.
- Autosomal recessive mutation leads to autoimmune polyendocrine syndrom type 1 (APS-1).
- Inactivation of aire abolishes expression of some tissue specific genes in the thymic medulla.
- AIRE deficiency impairs antigen-presentation ability of medullary epithelial cells.











Mechanisms of unresponsiveness: <u>Peripheral tolerance in B cells (II): Follicular</u> <u>exclusion</u>

- B cells binding to autoantigens in the periphery may be excluded from follicles.
- Excluded B cells undergo apoptosis independent of Fas and T cells.
- Rapid elimination depends on the presence of a normal repertoire of B cells.

competition between B cells for BAFF

