

B cell Activation and Ab Production

Chapter 12

- I. Ag Binding and Presentation
 - A.Bind
 - B.Internalize
 - C.Process
 - D.Present
 - E.Wait

- II.B cell Interaction with Th cells
 - A.T cells
 - B.Meeting
 - C.Confirmation
 - 1.binding
 - 2.CD40-CD40L interaction
 - 3.cytokines
 - 4.Tfh
 - a. IL-21

- III.B cell Responses
 - A.Proliferation
 - B.Affinity maturation
 - 1.somatic hypermutation
 - a. AID
 - 2.selection
 - 3.repeat
 - C.Heavy chain isotype (class) switching
 - 1.overview
 - 2.examples
 - 3.Switch region (S)
 - 4.switch recombination
 - a. AID
 - b. UNG
 - c. APE1
 - 5.result

- IV.T-independent Ab Response
 - A.Ag
 - B.Results

- V.Results of B cell Differentiation
 - 1.plasma cells
 - A.Short lived plasma cells
 - B.Long lived plasma cells
 - 1.plasmablasts
 - C.Memory B cells