

1. Please describe possible mechanisms by which pathogen-specific innate immune recognition activates antigen-specific adaptive immune responses and the roles of different types of innate immune recognition in host defense in periodontal disease. (Hints: you can first describe receptors and signaling pathways of microbial recognition systems then describe how they control the generation of T and B lymphocyte-mediated immune response.) (30%)
2. Please describe stimuli factors regulating osteoclast formation and potential strategies to treat bone resorption. (20%)
3. Please describe the mechanism and clinical application of guided tissue regeneration in periodontal diseases. (10%)
4. Please write a scientific proposal that you are planning to do in your graduate study. (It should include Aims, Background, Materials & Methods and anticipated results.) (40%)

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