

CVR 8840 - Anatomical basis for the ocular diseases

Course objectives:

1. Review basic concepts in normal and pathological ocular anatomy, physiology, immunology and signal transduction inside of cell
2. Read some comprehensive review paper that covers certain diseases picked by the students
3. Discuss certain selected papers to learn the new progress about certain diseases.
4. If the students already have some projects ongoing, I would help to turn that into a publication.

Course Material

- Week 1. General review the concepts of Immunology
- Week 2. General review the concepts of Physiology
- Week 3. General review the concepts of Pathology
- Week 4. Read and discuss a review paper about Retinal Pigment Epithelial cells
- Week 5. Read and discuss a review paper about advanced pterygii
- Week 6. Read and discuss a review paper about amblyopia
- Week 7. Introduction of critical reading scientific paper, start thinking their own research idea
- Week 8. Discuss and critique a scientific paper about the new finding in RPE
- Week 9. Discuss and critique a scientific paper about the new finding in pterygii
- Week 10. Discuss the design of the student's research proposal.
- Week 11. Discuss the design of the student's research proposal.
- Week 12. Turn in the term paper