10. Strategies for High Resolution Retinal Imaging
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10.1.1. Conventional Imaging (Roorda)
   10.1.1.1. Basic principles
   This will be a simple optical imaging system
   10.1.1.2. Basic system design
   Show a typical AO flood-illuminated imaging system for the eye
   10.1.1.3. Choice of optical components
   Discuss the type of optical you would use (eg off axis parabolas)
   10.1.1.4. Choice of light source
   How much energy, what bandwidth, flash duration, show typical examples
   10.1.1.5. Controlling the field size
   Where to place a field stop and why
   10.1.1.6. Choice of camera
   What grade of camera is required? Show properties of typical cameras that are currently used
   10.1.1.7. Implementation of wavefront sensing
   Where do you place the wavefront sensor. Using different wavelengths for wfs.

10.1.2. Scanning Laser Imaging (Roorda)
   10.1.2.1.1. Basic principles
   This will show how a simple scanning imaging system operates
   10.1.2.1.2. Basic system design
   This shows the layout of a simple AOSLO
   10.1.2.1.3. Choice of optical components
   What type of optical components should you use and why (eg mirrors vs lenses). Where do you want to place the components (eg raster scanning, DM etc) and why.
   10.1.2.1.4. Choice of light source
   How to implement different wavelengths. How to control retinal light exposure
   10.1.2.1.5. Controlling the field size
   Optical methods to increase field size
   Mechanical (scanning mirror) methods to increase field size
   10.1.2.1.6. Controlling light delivery
   Acousto-optical control of the light source for various applications
   10.1.2.1.7. Choice of detector
   PMT vs APD what are the design considerations
   10.1.2.1.8. Choice of frame grabbing and image acquisition hardware
   What are the requirements for a frame grabber. What problems can you expect.
   10.1.2.1.9. Implementation of wavefront sensing
   Strategies for wavefront sensing in an AOSLO
   10.1.2.1.10. Other: pupil tracking, retinal tracking, image warping

10.1.3. OCT Systems (Tumbar)
10.1.4. Future Ideas (Tumbar)
10.1.5. Survey of post-processing/image enhancement strategies (Christou)