

Spring 2020
PHRM 432 - Current Topics in Vision Science
Course Syllabus
Tuesday and Thursday - 10:00 - 11:30
VSRC Conference Room (Room 109 - Institute of Pathology)
 Course Directors: Paul S.-H. Park, PhD (email - paul.park@case.edu)
 Patricia Taylor, PhD (email - prt11@case.edu)

Textbook: **The Human Eye: Structure and Function**
 by Clyde W. Oyster (Sinauer Associates, Inc., Sunderland, MA)
 Two copies are available at the reserve desk in Health Science Library

Topic	Instructor	Date
1 Introduction/Eye anatomy	Park	1/14/20
2 Retina structure and function	Park	1/16/20
3 Biophysical studies of visual protein structure	Park	1/21/20
4 Cornea structure and function	Taylor	1/23/20
5 Ocular immunology	Taylor	1/28/20
6 Lens structure and function	Monnier	1/30/20
7 Current studies in cataract research	Monnier	2/4/20
8 Protein trafficking in photoreceptor cells and ciliopathies	Imanishi	2/6/20
9 Approaches to study protein trafficking in the retina	Imanishi	2/11/20
10 Journal club	Park	2/13/20
11 Journal club	Park	2/18/20
12 Retinoid metabolism and retinal disease	Golczak	2/20/20
13 Age-related macular degeneration	Pikuleva	2/25/20
14 Journal club	Park	2/27/20
15 OCT studies on mice with disrupted cholesterol homeostasis	Pikuleva	3/3/20
16 Biology of glaucoma	Rhee	3/5/20
17 SPRING BREAK		3/10/20
18 SPRING BREAK		3/12/20
19 Cancelled		3/17/20
20 Electroretinography - assessing retinal function and disease	Peachey	3/19/20
21 Genetic analysis of eye disease	Iyengar	3/24/20
22 Dry eye disease	Golczak	3/26/20
23 Diabetic retinopathy + retinal vasculature	Taylor	3/31/20
24 Journal club	Park	4/2/20
25 Journal club	Park	4/7/20
26		4/9/20
27		4/14/20
28		4/16/20
29		4/21/20
30 Research Proposals Due		4/23/20