Pathobiology of Cardiovascular Disease
Pathology 667

Molecular and Cellular Biology of Cardiovascular Disease

Spring Semester, 2013
Tuesday & Thursday
Time: 1:00-3:00 pm
Location: Bondurant Hall
4074 (Tue) & 2035 (Thurs)

Synopsis: This advanced course will explore the underlying pathogenesis of clinical cardiac and vascular disease with the objective of teaching students to understand, investigate, and communicate current concepts of cardiovascular disease.

Topics: This course is a team-taught by UNC faculty with particular expertise in their topic, and will stress primary literature and current methodologies. Course content will be derived from the faculty, primary literature, and leading cardiovascular medicine and pathology textbooks. Tentative topics include lipid and cholesterol metabolism, atherosclerosis, vascular wall biology and restenosis, hypertension, myocardial infarction and reperfusion injury, heart failure, cardiac hypertrophy, cardiac arrhythmia, genetics of cardiovascular disease, epidemiology of cardiovascular disease, cancer angiogenesis, and thrombosis/thrombolysis.

Course structure and materials: One topic will be covered per week, including a short interactive lecture, followed by a 1 hour student led discussion of specific current literature. Course materials include: Textbook of cardiovascular medicine, 3rd ed. ©2007, Editor Eric J. Topol; Libby: Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 8th ed. © 2007; and current literature. Access to all course materials is available online through UNC Health Sciences Library.

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