Angiogenesis

An overview on new blood vessel formation and its relation with human diseases

Course Goals: An overview on the factors and cell types involved in new blood vessel formation and the relation of their deregulation with the development of human vascular diseases. In addition to journal paper discussion on the latest reports on angiogenesis, two physicians will also share their bedside experience of treating vascular disease with angiogenic therapies.

Course Format: In the first 13 weeks, the lectures will be given by the assigned professors or physicians with expertise in the lecture topic. In the final 3-4weeks, students in groups will be asked to present a most-updated journal paper on the topics they have learned from lectures and panel discussion, and write the PBL-based assigned homework.

Course Materials: Listed reference books and lecture notes. **Grading Criteria:**

評分方法 (Itemized evaluation)		百分比 (%)	閱讀、理解與運用專業 知識	彙整新知與良好的溝 通能力	解決研究問題 的能力
準時出席與參 (Punctuality and attendance)		20	V	V	V
Assignments		30	V	V	V
One PBL-based oral presentation and Q/A participation		30	V	V	V
group discussion		20	V	V	V
	Class Time: Classroom: Coordinator(s)	R	riday, 1:10 - 3:00PM m 601 at NCKU Medica ೪ 華 (ext.3618)	l College	
Date		Topic Lectu			
02/21/2020	Course overvi	Course overview and mechanisms of blood vessel formation			民梨華
02/28/2020	Holiday				
03/06/2020		Physiological angiogenesis			
03/13/2020	Pathological a	Pathological angiogenesis			
03/20/2020	Heterogeneity	Heterogeneity of endothelial cells			
03/27/2020	Angiogenic fa	Angiogenic factors and their receptors			
04/03/2020	Holiday				
04/10/2020	The role of ex	The role of extracellular matrix in angiogenesis			
04/17/2020	Hemodynami	Hemodynamic forces and nitric oxides on angiogenesis			
04/24/2020	Inflammation and angiogenesis				忆延盛醫師
05/01/2020	The crosstalk	The crosstalk between angiogenesis and neurogenesis			
05/08/2020	Tumor neovas	Tumor neovascularization and lymphangiogenesis			
05/15/2020	Models for st	Models for studying angiogenesis			
05/22/2020	Anti-angioger	Anti-angiogenic therapeutic potential in human cancer			
05/29/2020	Angiogenic th	Angiogenic therapeutic potential in human diseases			
06/05/2020	Student Prese	Student Presentation			
06/12/2020	Student Prese	Student Presentation			
06/19/2019	Student presentation				民梨華