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
準時出席與參與 (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: Friday, 1:10 - 3:00PM

Classroom: Rm 601 at NCKU Medical College

Coordinator(s): 吳梨華 (ext.3618)

Date	Topic	Lecturer
02/17/2023	Course overview and mechanisms of blood vessel	吳梨華/Wu, Li-Wha
	formation	
02/24/2023	Physiological angiogenesis	許聖民醫師/Hsu, Sheng-Min
03/03/2023	Pathological angiogenesis	蘇美慈醫師/Su, Mei-Tsz
03/10/2023	Heterogeneity of endothelial cells	吳梨華/Wu, Li-Wha
03/17/2023	Angiogenic factors and their receptors	吳梨華/Wu, Li-Wha
03/24/2023	The role of extracellular matrix in angiogenesis	邱文泰/ Chiu, Wen-Tai
03/31/2023	Inflammation and angiogenesis	沈延盛院長/ Shan, Yan-Shen
04/07/2023	School holiday	
04/14/2023	Hemodynamic forces and nitric oxides on angiogenesis	莫凡毅/Mo, Fan-E
04/21/2023	The crosstalk between angiogenesis and neurogenesis	張雅雯/ Alice YW Chang
04/28/2023	Tumor neovascularization and lymphangiogenesis	吳梨華/Wu, Li-Wha
05/05/2023	Models for studying angiogenesis	吳梨華/Wu, Li-Wha
05/12/2023	Anti-angiogenic therapeutic potential in human cancer	蘇文彬醫師/Su, Wen-Pin
05/19/2023	Angiogenic therapeutic potential in human diseases	洪嘉鴻醫師/Jia-Horung Hung
05/26/2023	Student presentation	吳梨華/Wu, Li-Wha
06/02/2023	Student presentation	吳梨華/Wu, Li-Wha
06/09/2023	Student Presentation	吳梨華/Wu, Li-Wha