## 朝陽科技大學 098學年度第2學期教學大綱 Stem Cell and Tissue Engineering 幹細胞與組織工程

當期課號	7256	Course Number	7256
授課教師	李孟真	Instructor	LEE,MENG JEN
中文課名	幹細胞與組織工程	Course Name	Stem Cell and Tissue Engineering
開課單位	生化科技研究所碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	幹細胞(stem cells)是一群尚充完全分化的細胞,自時具有分裂增加的體細胞,自時具有分別有效的體細胞的學子全的體細胞的性性。 性性,自然是一种的體細胞的性性, 性性, 性性, 性性, 性性, 性性, 性性, 性性, 性性, 性性,	Objectives	Stem cells are a group of undifferentiated cells that has ability to proliferate indefinitely and, when specifically stimulated, differentiated to various types of somatic cells. Multipotent embryonic stem cells are now being cultured in vitro successfully, and could be differentiate to more than 200 different types of cells in various organs and tissues. These types of cells can be used in organ transplantation, drug development, gene therapy, and cancer therapy. Tissue engineering is an interdisciplinary subject that integrating the fields of cell biology, biomedical material, biochemistry, genomic. The research aims at preparation of functional organ or tissue that would replace or repair diseased ones. The purpose of this course is to teach basic science for the understanding of these two principles, and to introduce their application in the repair and regeneration of various tissue and organs.
教材	自編教材	Teaching Materials	teacher's own material
成績評量方式	出席 文獻報告	Grading	class attending paper report
教師網頁			
教學內容	簡介 細胞分化之決定 生長因子 血液幹細胞 嚴正幹細胞 細胞間質及支架 組織工程 中樞細經修復 胰臟細胞修復 其他器官修復 文獻報告	Syllabus	stem cell introduction fate determination growth factors blood stem cells cancer stem cells ECM and scafold tisseu engineering stem cell therapy for nervous system stem cell therapy for beta cells stem cell therapy for other organs paper report

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