## ② 图 z 東華大學 教學計劃表 Syllabus

VIII 4 -	40 / 1 · · ·										
	名稱(中文) me in Chinese			學年/學期 Academic Year/Sem	114/1 ester						
課程名稱(英文) Course Name in English		Cell Culture Application									
科目代碼 Course Code		MBT_56420	系級 開課單位 Course-Offering Department								
修別 Type		El ecti ve	學分數/時間 Credit(s)/Hour(s)	3.	3.0/3.0						
授課教師 Instructor		/									
先修課程 Prerequisite											
課程描述 Course Description											
課程目標 Course Objectives											
圖示說明I]	圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated										
授課進度表 Teaching Schedule & Content											
週次Week	內容 Subject/Topics 備註Remarks										
1	Basic cell culture-To focus the basic techniques required for successful cell culture https://meet.google.com/aam.dbsj-aef										
2	Establishment, maintenance, and cloning of human dermal fibroblasts -To establish a reliable protocol for the maintenance the primary cell, such as fibroblasts  https://meet.google.com/aam.dbsj-aef										
3	Aging of cultured human skin fibroblasts-To study the in vitro https://meet.google.co										
4	Ex vivo maintenance of differentiated mammalian cells-Maintenance of differentiated epithelia cells including ex vivo can be achieved now to a surprising degree through recognition of two complimentary and dramatically interacting sets of mechanisms										
5	Scal e-up of suspensi on and anchorage-dependent animal cells-The principles and techniques of scale-up for cell culture										
6	Hollow fiber cell culture-Hollow fiber mammalian cell culture										
7	Separation and maintenance of primary T and B-lymphoacytes-To establish T- and B-lymphocytes from clinical material										
8	Human pilosebaceous culture-To establish human pilosebaceous culture										
9	Midt	Midterm Exam									
10	Establishment, maintenance, and cloning of human dermal fibroblasts -To establish, maintance, and clone the human dermal fibroblasts										
11	Culturing primitive hemopoietic cells-To establish the maintenance of normal primitive hemopoietic cell types in culture for long periods										

12	Kerati nocyte cul ture-To establish the kerati nocyte cul ture on ti ssue-cul ture plastics						
13	Tissue culture of skeletal muscle-The disaggregating method used to growskeletal muscle from neonatal mouse muscle						
14	Culture of cells from human tumors of the nervous system on an extracellular cells derived form bovine corneal endothelial cells- To culture the human tumor cells from the nervous system						
15	Long-term B-lymphoid cultures from murine bone marrow establishment and cloning by using stromal cell line AC 6.21-To establish long-term proliferation and differentiation of early B-lymphocyte lineage cells						
16	Mouse long-term bone marrow culture-To establish the human hematopoietic cells from bone marrow						
17	Culturing primitive hemopoietic cells						
18	Fi nal Exam						
教 學 策 略 Teaching Strategies							
	Lecture Group Discussion Field Trip						
Miscel I aneous:							
	教學創新自評Teaching Self-Evaluation						
	教學創新自評Teaching Self-Evaluation (Innovative Teaching)						
	(Innovative Teaching)						
	(Innovative Teaching) (PBL) (TBL) (SBL)						
	(Innovative Teaching)  (PBL)  (TBL)  (SBL)  Flipped Classroom  Mbocs						
	(Innovative Teaching)  (PBL)  (TBL)  (SBL)  Flipped Classroom  (Social Responsibility)						
	(Innovative Teaching)  (PBL)  (TBL)  (SBL)  Flipped Classroom  Mocs  (Social Responsibility)  Community Practice  Industy-Academia Cooperation						
	(Innovative Teaching)  (PBL)  (TBL)  (SBL)  Flipped Classroom  Mocs  (Social Responsibility)  Community Practice  Industy-Academia Cooperation  (Transdisciplinary Projects)						
ot	(Innovative Teaching)  (PBL)						

學期成績計算及多元評量方式 Grading & Assessments										
配分項目	配分比例 Percentage	多元評量方式 Assessments								
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他	
( ) General Performance (Attendance Record)	20%		<b>~</b>							
Midterm Exam	30%			<b>~</b>						
Fi nal Exam	30%			~						
Homework and/or Assignments	20%		~							
Miscel I aneous										

評量方式補充說明

Grading & Assessments Supplemental instructions

## 教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Basic Cell culture protocols, Edited by Jeffery W Pollard and John M. Walker, Humana press)

## 課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

https://meet.google.com/aam.dbsj-aef

其他補充說明(Supplemental instructions)