

099100LS 110301 Introduction to Life Science

生命科學導論

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Teaching Assistants :

蔡儒瑩 (42689)、劉幸怡 (33197)、林育賢 (42685)、張妍 (33479)

Time : W7、W8、W9 (15:20-18:10)

Room : LSII R109 , 生科二館 109 教室

Week	Date	Topic	Instructor	Reference
1	09/15	Engineering Aspects of the Cell	WAGNER OLIVER	Kasza K.E. et al. "The cell as a material" <i>Curr Opin Cell Biol.</i> 2007. 19:101-7
2	09/22	Class suspended 中秋節		
3	09/29	Biological Machines, Cell Mechanics and Nanotechnology	WAGNER OLIVER	van den Heuvel MG, Dekker C. "Motor proteins at work for nanotechnology" <i>Science.</i> 2007. 317:333-6
4	10/06	Non-biological Machines and Bio-Nanotechnology	WAGNER OLIVER	van den Heuvel MG, Dekker C. "Motor proteins at work for nanotechnology" <i>Science.</i> 2007. 317:333-6
5	10/13	Examination I		(Lecture week: 1-4)
6	10/20	Secrets within Cells (I) 1. Why are all organisms made of Cells? 2. How do Cells turn back the clock? 3. Different stem cells	Huang, Haimei	1. Text in internet www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookCELL2.html 2. 細胞時光的逆轉者 <i>科學人</i> 73: 114-115 (2009-Jan.) 3. 取代胚胎幹細胞的方案 (Potent Alternative) <i>Scientific American</i> 2008-Dec. p112-4 <i>科學人</i> 73: 12-13 (2008-Mar.)
7	10/27	Secrets within Cells (II) 1. Yours cells are my cells 2. Limbs Regeneration 3. Fibroblasts: Navigator for Regeneration	Huang, Haimei	1. 你的細胞就是我的細胞 <i>科學人</i> 73: 53-59. 2008-March) 2. 人類斷肢也能再生? <i>科學人</i> 75: 42-49 (2008-May) 3. 纖維母細胞: 再生反應的領航員 <i>科學人</i> 75: 50-52 (2008-May)
8	11/03	All about Cancer 1. Statistics on Cancer 2. Untangling the Roots of cancer 3. Chromosomal Chaos and cancer 4. Mapping the cancer genome	Huang, Haimei	1. 癌症的統計數字 2. 追尋癌症的根源 3. 染色體錯亂: 致癌新觀點 4. 癌症基因大解碼 Internet data from public health reports <i>科學人</i> (特刊) 5 : 88-98 (2007-Oct.) <i>科學人</i> 64: 100-107 (2007-June) <i>科學人</i> 62 : 50-65 (2007-April)
9	11/10	Anti-Cancer strategies 1. Liver Cancer Studies in Taiwan 2. A Malignant Flame 3. Taming vessels to treat	Huang, Haimei	1. 肝癌基因全記錄 <i>科學人</i> 62: 66-69 (2007-April) 2. 發炎: 助長癌症的惡火 <i>科學人</i> 67 : 96-103 (2007-Sept.) 3. 馴服血管治腫瘤 <i>科學人</i> 76 : 70-77 (2008-June) 4. 標靶藥物, 戰勝乳癌 <i>科學人</i> 80: 122-129 (2008-Oct.)

		cancer 4. Gaining Ground on Breast Cancer				
10	11/17	Class suspended 運動會				
11	11/24	Examination II			(Lecture week: 6-9)	
12	12/01	清華的故事 DNA 的故事	PAN, RONG-LONG			
13	12/08	植物的故事	PAN, RONG-LONG			
14	12/15	醫學典範	PAN, RONG-LONG			
15	12/22		YEH, SHIH-RUNG			
16	12/29		YEH, SHIH-RUNG			
17	01/05		YEH, SHIH-RUNG			
18	01/12	Examination III			(Lecture week: 12-17)	