

2022 NTHU-DMS Summer Reading/Writing Assignment

Book (十二選一)

Cell Biology	細胞：影響我們的健康、意識以及未來的微觀世界內幕 (The Cell: Discovering the Microscopic World that Determines Our Health, Our Consciousness, and Our Future) 原文作者：Joshua Z. Rappoport 出版社：商周出版社
Cancer	細胞反叛 (One Renegade Cell: How Cancer Begins) 原文作者：Robert A. Weinberg 出版社：天下文化出版社
Microbiology	第四級病毒 (Level 4: Virus hunters of the CDC) 作者：約瑟夫·麥科明克, 蘇珊·費雪賀區/著 出版社：商周出版社
	細菌：我們的生命共同體 (Bund fürs Leben: Warum Bakterien unsere Freunde sind) 原文作者：Hanno Charisius, Richard Friebe 出版社：商周出版社
Technology	基因編輯大革命：CRISPR 如何改寫基因密碼、掌控演化、影響生命的未來 (A Crack in Creation: Gene Editing and the Unthinkable Power to Control Evolution) 原文作者：Jennifer A. Doudna, Samuel H. Sternberg 出版社：天下文化出版社
Public Health	肝炎聖戰：台灣公共衛生史上的大勝利 作者：楊玉齡, 羅時成 出版社：天下文化出版社
Physiology	大口一吞，然後呢？：深入最禁忌的消化道之旅 (Gulp: Adventures on the Alimentary Canal) 原文作者：Mary Roach 出版社：天下文化出版社
Immunology	免疫的威力：免疫力，就是最好的醫生！治癒過敏、發炎與癌症的免疫醫療法 作者：伍焜玉 出版社：遠流出版社
Pathology	有趣到讓你不想睡的病理學通識 作者：仲野徹 出版社：大是文化
Medical ethics	海拉細胞的不死傳奇 (The immortal life of Henrietta Lacks) 原文作者：Rebecca Skloot 譯者：賴盈滿 出版社：遠流
COVID-19	疫苗先鋒：新冠疫苗的科學戰 (Vaxxers: The Inside Story of the Oxford AstraZeneca Vaccine and the Race Against the Virus) 原文作者：Sarah Gilbert, Catherine Green 譯者：廖建容, 郭貞伶 出版社：天下文化出版社
Medical Research	因果螺旋：跨越時空的探索與思辨 作者：陳建仁 出版社：圓神出版

TED Talk

Vaccine	HIV and flu – the vaccine strategy https://www.ted.com/talks/seth_berkeley_hiv_and_flu_the_vaccine_strategy
Technology	How CRISPR lets us edit our DNA https://www.ted.com/talks/jennifer_doudna_how_crispr_lets_us_edit_our_dna
Stem Cell	The promise of research with stem cells https://www.ted.com/talks/susan_solomon_the_promise_of_research_with_stem_cells

Cancer	<p>New nanotech to detect cancer early https://www.ted.com/talks/joshua_smith_new_nanotech_to_detect_cancer_early</p> <p>Can we eat to starve cancer? https://www.ted.com/talks/william_li_can_we_eat_to_starve_cancer</p> <p>What the sugar coating on your cells is trying to tell you https://www.ted.com/talks/carolyn_bertozzi_what_the_sugar_coating_on_your_cells_is_trying_to_tell_you</p>
Microbiota	<p>How we study the microbes living in your gut https://www.ted.com/talks/dan_knights_how_we_study_the_microbes_living_in_your_gut?</p>
Aging	<p>How young blood might help reverse aging yes really https://www.ted.com/talks/tony_wyss_coray_how_young_blood_might_help_reverse_aging_yes_really</p>
Neuroscience	<p>A look inside the brain in real time https://www.ted.com/talks/christopher_decharms_a_look_inside_the_brain_in_real_time</p> <p>A map of the brain http://www.ted.com/talks/allan_jones_a_map_of_the_brain.html</p>
Microbiology	<p>The coming crisis in antibiotics https://www.ted.com/talks/ramanan_laxminarayan_the_coming_crisis_in_antibiotics</p>
Ethics	<p>https://www.ted.com/talks/alyson_mcgregor_why_medicine_often_has_dangerous_side_effects_for_women</p>
COVID-19	<p>How COVID-19 transformed the future of medicine https://www.ted.com/talks/daniel_kraft_how_covid_19_transformed_the_future_of_medicine</p> <p>The trials, tribulations and timeline of a COVID-19 vaccine https://www.ted.com/talks/jerome_kim_the_trials_tribulations_and_timeline_of_a_covid_19_vaccine</p>

1. 請看過所有TED演講與指定書籍(十二選一)，並理解內容。我們將在大一的「醫學科學導論」課程中對這些指定閱覽資料進行討論。
2. 請任選其中一個Ted Talk的演講，以英文準備 powerpoint 簡報 (約6-10 張投影片)，開學時須在「醫學科學導論」課程中以英文進行 5 分鐘的內容簡介與心得報告。
3. 請以英文撰寫指定書籍(十二選一)的讀書心得報告，在「醫學科學導論」課程中繳交。以不超過2 頁A4 紙為原則，12 號字體，Times New Roman 字型，單行間距。內容分三段: 1) 簡述本書內容；2) 書中最令你印象深刻的人事物；3)你喜歡或不喜歡這本書以及原因。**嚴禁抄襲!**