

## 2021 NTHU-DMS Summer Reading/Writing Assignment

### Book (十一選一)

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
Publish 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	有趣到讓你不睡睡的病理學通識 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	Vaxxers: The Inside Story of the Oxford AstraZeneca Vaccine and the Race Against the Virus (尚未有中譯版本) 作者：Sarah Gilbert & Catherine Green

### TED Talk

Vaccine	HIV and flu – the vaccine strategy <a href="https://www.ted.com/talks/seth_berkley_hiv_and_flu_the_vaccine_strategy">https://www.ted.com/talks/seth_berkley_hiv_and_flu_the_vaccine_strategy</a>
Technology	How CRISPR lets us edit our DNA <a href="https://www.ted.com/talks/jennifer_doudna_how_crispr_lets_us_edit_our_dna">https://www.ted.com/talks/jennifer_doudna_how_crispr_lets_us_edit_our_dna</a>
Stem Cell	The promise of research with stem cells <a href="https://www.ted.com/talks/susan_solomon_the_promise_of_research_with_stem_cells">https://www.ted.com/talks/susan_solomon_the_promise_of_research_with_stem_cells</a>
Cancer	New nanotech to detect cancer early <a href="https://www.ted.com/talks/joshua_smith_new_nanotech_to_detect_cancer_early">https://www.ted.com/talks/joshua_smith_new_nanotech_to_detect_cancer_early</a>

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

1. 請看過所有TED演講與指定書籍(十選一)，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!**