

104 學年度第一學期

10410LSMC614100

微生物毒性因子

Microbial Virulence Factors

教師：王雯靜時間：星期二 9:00am ~12:00 pm

地點：生科二館 213 室

| 第 週 | 日 期 | Topics |
|-----|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 9/22 | The search for Infections Causes of Human Cancers |
| 2 | 9/29 | Autophagy in Macrophages: Impacting Inflammation and Bacterial Infection |
| 3 | 9/30 | Inflammasome Activation by Microbial Infection Template articles discussion Cycle I: 王雯靜老師 |
| 4 | 10/06 | Pathogenic mycobacteria: interaction with the host immune system Template articles discussion Cycle I: |
| 5 | 10/13 | Microbiota and Cancer Template articles discussion Cycle I: |
| 6 | 10/20 | Epigenetics and Cancer |
| 7 | 10/27 | Nutri-epigenetics Template articles discussion Cycle I: |
| 8 | 11/03 | Mid term |
| 9 | 11/10 | <i>Helicobacter pylori</i> and gastrointestinal disease Template articles discussion Cycle I: |
| 10 | 11/17 | Vacuolating toxin (VacA) Template articles discussion Cycle II: |
| 11 | 11/24 | Cytotoxin-associated antigen (CagA) Template articles discussion Cycle II: |
| 12 | 12/01 | Cholesterol- α -glucosyltransferase Template articles discussion Cycle II: |
| 13 | 12/08 | Pathogen-cell interaction Template articles discussion Cycle II: |
| 14 | 12/15 | AB-type toxins and pore-forming toxins <i>Clostridium tetani</i> & tetanus toxin <i>Clostridium botulinum</i> & botulinum toxin <i>Escherichia coli</i> & heat-labile toxin, verotoxin <i>Shigella dysenteriae</i> & shiga toxin <i>Vibrio cholerae</i> & cholera toxin, <i>Bacillus anthracis</i> & Anthrax toxin |

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| | | <i>Bordetella pertussis</i> & Pertussis toxin <i>Corynebacterium diphtheriae</i> & diphtheria toxin <i>Campylobacter jejuni</i> & cytolethal distending toxin Template articles discussion Cycle II : |
| 15 | 12/22 | Recent topics on bacterial virulence Template articles discussion Cycle II : |
| 16 | 12/29 | Recent topics on bacterial virulence Template articles discussion Cycle II : |
| 17 | 1/05 | Final report I |
| 18 | 1/12 | Final report II |

參考書本:

1. Alouf, J. E. and Freer, J. H. (1999). Bacterial protein toxins. Academic Press.
2. Evans, A. S. and Brachman, P. S. (2013). Bacterial Infections of Humans. Epidemiology and Control. Plenum Medical. Edition 3
http://www.youtube.com/watch?v=9A1_BberZ8w&feature=related