**Fundamentals of Infectious Diseases and Microbial Research**

**傳染性疾病與微生物研究導論（2021秋季）**

This course addresses the general background of infectious diseases and the research principles of pathogenic microorganisms.

此課程介紹傳染性疾病概念以及微生物病原的研究方法，使學生對傳染性疾病以及其致病微生物病原的研究與方法有概括性的了解。

課程負責人:王憲威(分機:4218)、鄧景浩(分機:4595)

開課時間、學分與地點:碩一上學期; 2學分; 星期四 3、4 節；教室: 302D

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| No. | Date | Topic  | Lecturer |
| 1 | 9/16 | Introduction to bacterial physiology | 橋本昌征 |
| 2 | 9/23 | Diversity of bacterial genomes | 橋本昌征 |
| 3 | 9/30 | Principle of bacterial molecular genetics | 鄧景浩 |
| 4 | 10/07 | Laboratory methods to identify bacterial virulent genes | 鄧景浩 |
| 5 | 10/14 | Principles and utility viral database and viral replicon technology  | 王憲威 |
| 6 | 10/21 | Virus isolation, cultivation, and identification | 王憲威 |
| 7 | 10/28 | Recombinant viral technology | 王憲威 |
| 8 | 11/04 | Gene therapy and vaccine development (1) | 王憲威 |
| 9 | 11/18 | Gene therapy and vaccine development (2) | 王憲威 |
| 10 | 11/25 | Midterm exam | 鄧景浩/王憲威 |
| 11 | 12/02 | Principle of clinical study | 張定宗  |
| 12 | 12/09 | Respiratory tract infection | 王世敏  |
| 13 | 12/16 | Central nervous system infection | 李南瑤 |
| 14 | 12/23 | Infection in the immunocompromised host | 張家銘 |
| 15 | 12/30 | Sepsis | 柯文謙 |
| 16 | 01/06 | Cardiovascular system infections | 金憲國 |
| 17 | 01/13 | Final exam | 鄧景浩/王憲威 |