

SCMI 331 Medical Bacteriology
Semester 2 Academic Year 2025
Course Schedule

| Date - Time | Topics | Instructors | Room |
|---------------------------|--|-------------|------|
| Tuesday January 6 | | | |
| 9.00 – 9.30 | Lecture 1: Class Orientation & Introduction to Medical Bacteriology | RK | R504 |
| 9.30 - 11.00 | Lecture 2: Bacterial taxonomy, structures and functions, metabolisms | RK | R504 |
| 11.00 – 12.00 | Lecture 3: Bacterial Pathogenicity and Virulence | RK | R504 |
| 13.00 – 16.00 | Lab 1: Conventional methods for bacterial Identification | RK, NS | MDL4 |
| Thursday January 8 | | | |
| 13.00 – 13.45 | Lecture 4: Important Gram-Positive Bacterial Infection | NS | R504 |
| 13.45 -14.30 | Lecture 5: Infection from Mycobacteria & Atypical bacteria | NS | R504 |
| 14.30 – 16.00 | Lecture 6: Important Gram-Negative Bacterial Infection | RK | R504 |
| Tuesday January 13 | | | |
| 9.00 – 10.00 | Lecture 7: Bacterial Genomics | NS | R504 |
| 10.00 – 11.00 | Lecture 8: Bacterial Gene Expression | NS | R504 |
| 11.00 – 12.00 | Lecture 10: Bacterial Genotyping & Its Applications | NS | R504 |
| 13.00 – 16.00 | Lab 2: Molecular Identification of Bacteria | RK, NS | MDL4 |

| Date - Time | Topics | Instructors | Room |
|----------------------------|---|-------------|------|
| Thursday January 15 | | | |
| 09.00 – 10.00 | Lecture 11: Immune Response to Bacterial infection | FL | R504 |
| 10.00 – 12.00 | Journal Discussion 1: Host-Bacteria Interaction | FL | R504 |
| Tuesday January 20 | | | |
| 10.00 – 12.00 | Lecture 11: Microbiome | WS | R504 |
| 13.00 – 16.00 | Lab 3: Genomic Tools and Database Applications in Pathogen Identification | RK, NS | MDL4 |
| Thursday January 22 | | | |
| 13.00 – 16.00 | Journal Discussion 2: A Role of Autophagy in Bacterial Infection | MP | R504 |
| Tuesday January 27 | | | |
| 9.00 – 10.00 | Lecture 12: Diagnosis of Bacterial infections | PP | R504 |
| 10.00 – 11.00 | Lecture 13: Antibacterial therapy and antimicrobial resistance | PP | R504 |
| 11.00 - 12.00 | Lecture 14: Prevention of bacterial diseases | PP | R504 |
| 13.00 – 16.00 | Lab 4: Susceptibility Testing of Pathogenic Bacteria | RK, NS | MDL4 |
| Thursday January 29 | | | |
| 9.00 – 11.00 | Journal Discussion 3: Novel Therapeutic Approaches to Bacterial Infection | RK, NS | R504 |
| 13.00 – 16.00 | Lab 5: Gene Transfer in Bacteria | RK, NS | MDL4 |
| Thursday February 5 | | | |
| 9.00 – 12.00 | Students' Presentation | RK, NS | R504 |
| 13.00 – 16.00 | Examination | | R504 |

Instructors

| | |
|----|-----------------------------|
| FL | Fabien Loison |
| MP | Marisa Ponpuak |
| PP | Prasit Palittapongarnpim |
| RK | Ratchara Kalawong |
| NS | Nattapong Sanguankiattichai |
| WS | Waradon Sungnak |

Co-Ordinator: Ratchara Kalawong