

Schedule of microbiology and immunology lectures and practicals
For 3rd year dentist students
2018/2019 1st Semester

	Lecture 1 h Thursday 8 – 9 hr. Yellow Building behind the New Clinic, Room 4	Lecture 1 h Thursday 9 -10 hr. Yellow Building behind the New Clinic, Room 4	Practicals: Friday 14-15 Microbiology Dept. Pract. room
1.) IX. 03.-07.	Introduction to microbiology Bacterial structure and taxonomy. Bacterial antigens Dr. Ferenc Somogyvári	Bacterial physiology and genetics. Pathogenisity and infection Dr. Ferenc Somogyvári	Laboratory safety. Aseptic techniques. Native preparations
2. IX. 10.-14.	The cells of the immune system. Primary and secondary lymphoid organs. Cells of the natural immunity and their humoral elements. Dr. Klára Megyeri	Human defense mechanism against bacterial infections. Defense mechanisms of the oral cavity. Active and passive immunisations. Dr. Klára Megyeri	Preparation of bacterial smears. Simple and Gram staining. Discussion of Ziehl-Neelsen staining
3. IX. 17.-21.	The cells and humoral elements of the adaptive immune response. General structure and characterization of the Ig-classes. Dr. Klára Megyeri	Ontogenesis of the B cells, immune response based on the B-cells. T-cell ontogenesis, types and immune response. Dr. Klára Megyeri	Culture media. Handling bacterial cultures. Blood agar preparations
4. IX. 24.-28.	Antibacterial chemotherapy I. Dr. Ferenc Somogyvári	Antibacterial chemotherapy II. Antibiotic resistance of bacteria Dr. Ferenc Somogyvári	Colony morphology. Biochemical reactions
5. X. 01.-05.	<i>Staphylococci, Streptococci</i> (acute- and post-streptococcal infections) Dr. Dezső Virók	Oral streptococci Dr. Dezső Virók	Antibiotic sensitivity tests. Disk diffusion, E-test. MIC, MBC
6. X. 08.-12.	Anaerob bacteria <i>Corynebacteria</i> Dr. Ferenc Somogyvári	<i>Enterobacteriaceae</i> , Typhus and gastroenteritis causing <i>Salmonellae</i> , <i>Campylobacter</i> , <i>Helicobacter pylori</i> <i>Haemophilus influenzae</i> , <i>Bordetella pertussis</i> Dr. Ferenc Somogyvári	Sterilisation, desinfectants
7. X. 15.-19.	Infective endocarditis and its prevention. Dr. Dezső Virók	Mycobacteria, <i>Neisseria meningitidis</i> , <i>Neisseria gonorrhoeae</i> . Dr. Dezső Virók	Serological reactions: agglutination, ELISA

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8. X. 22.-26. X. 22-24. holiday	Oral microflora. Development of dental plaque. Caries pathology. Microbial interactions in caries development.: <i>S. mutans</i> , <i>Lactobacillus</i> , <i>Actinomyces</i> , <i>Veillonella</i> , <i>Bifidobacterium</i> , <i>Fusobacteria</i> . Dr. Dezső Virók	Periodontal and dentoalveolar diseases Dr. Dezső Virók	<i>Staphylococci</i> , <i>Streptococci</i> . ASOT <i>Neisseriae</i> . Viridans <i>Streptococci</i> , <i>Corynebacterium</i> Microbiological processing of sputum, mouth, nasopharyngeal samples
9. X. 29.- XI. 02. XI. 1-2. holiday			
10. XI. 05.-09.	General virology, viral replication and pathogenesis. Dr. Dezső Virók	Antiviral chemotherapy. IFN. Dr. Dezső Virók	<i>Lactobacilli</i> , <i>Bacteroides</i> Cultivation of anaerobic bacteria
11. XI. 12.-16.	Papillomaviruses Dr. Ferenc Somogyvári	Adenoviruses. Oral manifestation of picornaviral infections. Dr. Ferenc Somogyvári	Quantitation of viruses – PCR, qPCR. Serological methods in virology
12. XI. 19.-23.	Hepatitis viruses (A, B, C, D, G) Dr. Ferenc Somogyvári	HIV – general informations, opportunistic infections, oral manifestations. Dr. Ferenc Somogyvári	Summary of the most important human pathogenic viruses
13. XI. 26.- 30.	Orthomyxo- and paramyxoviruses Dr. Dezső Virók	Oral manifestation of herpesvirus infections. Rubeola infections. Dr. Dezső Virók	Mycology: diagnostic microbiology and laboratory methods
14. XII. 03.-07.	Subcutaneous and superficial mycosis. Systemic and opportunistic infections, oral manifestations. Lab diagn, therapy Dr. Ferenc Somogyvári	Protozoons in dentistry: <i>Trichomonas</i> , <i>Leishmaniae</i> , <i>Entamoeba gingivalis</i> , <i>Toxoplasma</i> Dr. Ferenc Somogyvári	Consultation