

**Biochemistry and Pathobiochemistry 2 B81138**

| Week                                         | Week from | Lesson date | Seminars                                                                                        | Teacher          |
|----------------------------------------------|-----------|-------------|-------------------------------------------------------------------------------------------------|------------------|
|                                              |           |             | <b>Wed 14:30 – 16:00; Fri 9:15–10:45</b><br><i>Seminary Room No. 3.074</i>                      |                  |
| 1.                                           | 30.09.24  | 02.10.24    | Influence of the oral cavity environment on various dental materials.                           | Dr. Tichý        |
|                                              |           | 04.10.24    | Saliva: origin, composition, function.<br>Pathobiochemistry of bones and connective tissues.    | Doc. Malbohan    |
| 2.                                           | 07.10.24  | 09.10.24    | Pathobiochemistry of oral cavity. Dental plaque and dental decay.                               | Doc. Malbohan    |
|                                              |           | 11.10.24    | Importance of individual components in dentifrices.                                             | Doc. Malbohan    |
| 3.                                           | 14.10.24  | 16.10.24    | Structure of nucleic acids. Biosynthesis of nucleic acids.                                      | Dr. Janatová     |
|                                              |           | 18.10.24    | Transcription and translation.                                                                  | Dr. Janatová     |
| 4.                                           | 21.10.24  | 23.10.24    | Methods of molecular biology.                                                                   | Dr. Šafaříková   |
|                                              |           | 25.10.24    | Essentials of cell signaling and its disorders.                                                 | Dr. Pláteník     |
| 5.                                           | 28.10.24  | 30.10.24    | Molecular biology and pathobiochemistry of tumor growth.                                        | Doc. Vachtenheim |
|                                              |           | 01.11.24    | Reactive oxygen and nitrogen species. Phagocyte weapons.                                        | Dr. Pláteník     |
| 6.                                           | 04.11.24  | 06.11.24    | Antioxidant defence of human body. Dietary antioxidants.                                        | Dr. Pláteník     |
|                                              |           | 08.11.24    | Blood plasma proteins and their significance. The acute phase proteins. Immunoglobulins.        | Prof. Kalousová  |
| 7.                                           | 11.11.24  | 13.11.24    | Immunochemical techniques and their usage in clinical chemistry.                                | Prof. Kalousová  |
|                                              |           | 15.11.24    | Biochemistry of inflammation.                                                                   | Prof. Kalousová  |
| 8.                                           | 18.11.24  | 20.11.24    | Disorders of hemocoagulation and techniques used in their laboratory investigation.             | Dr. Krtil        |
|                                              |           | 22.11.24    | Xenobiochemistry.                                                                               | Dr. Dvořák       |
| 9.                                           | 25.11.24  | 27.11.24    | Disorders of lipid metabolism. Atherosclerosis.                                                 | Dr. Vecka        |
|                                              |           | 29.11.24    | Methods of biochemical investigation of diabetes mellitus.                                      | Dr. Mráz         |
| 10.                                          | 02.12.24  | 04.12.24    | Composition of body fluids and its most common disorders.                                       | Dr. Rybníkářová  |
|                                              |           | 06.12.24    | Disorders of porphyrin metabolism. Icterus.                                                     | Doc. Křepela     |
| 11.                                          | 09.12.24  | 11.12.24    | Biochemistry and pathobiochemistry of the liver. Significance of liver in metabolism.           | Dr. Krtil        |
|                                              |           | 13.12.24    | Disorders of nutrition. Obesity, starvation, malnutrition, deficiency of vitamins and minerals. | Doc. Malbohan    |
| 12.                                          | 16.12.24  | 18.12.24    | REVISION TEST                                                                                   | Dr. Pláteník     |
|                                              |           | 20.12.24    |                                                                                                 |                  |
| Christmas vacation 21. 12. 2024 - 5. 1. 2025 |           |             |                                                                                                 |                  |
| 14.                                          | 06.01.25  | 08.01.25    | Consultations                                                                                   | Dr. Pláteník     |
|                                              |           | 10.01.25    | Consultations                                                                                   | Dr. Pláteník     |
| 15.                                          | 13.01.25  | 15.01.25    | CREDIT                                                                                          | Dr. Pláteník     |
|                                              |           | 17.01.25    |                                                                                                 |                  |