

Topic list 2023

A

- A1. Matrix components of hard tissues
- A2. Mineral components of the hard tissues. Bioapatites.
- A3. Development of the hard tissues - mineralization process
- A4. Development of the tooth germ, developmental stages
- A5. Histological structure of the bones, forms of osteogenesis
- A6. Bone resorption and the osteoclasts
- A7. Amelogenesis
- A8. Dentinogenesis
- A9. Dentinpermeability and dentin sensitivity
- A10. Cementogenesis
- A11. Mechanism of tooth eruption
- A12. Tooth movement
- A13. Calcium metabolism and homeostasis, role in tooth and bone development
- A14. Fluoride metabolism. Fluoride and the hard tissues
- A15. Systemic and dental fluorosis, acute and chronic poisoning

B

- B1. Functional morphology of the salivary glands
- B2. Protein secretion in the salivary glands, regulation and mechanism
- B3. Ion and water secretion in the salivary glands, regulation and mechanism
- B4. Oral consequences of therapeutic irradiation
- B5. Inflammation types, phases, and general characteristics
- B6. Mediators in the inflammation
- B7. Wound healing
- B8. Oral cancer – epidemiology, etiology and molecular factors
- B9. Structural and functional morphology of the dental pulp
- B10. Inflammation of the dental pulp, tooth derived pain
- B11. Oral sensation, taste
- B12. Olfaction
- B13. Deglutition
- B14. Gingival sulcus and the crevicular fluid

C

- C1. Bleeding disorders, pathomechanism and clinical symptoms
- C2. Thrombotic disorders, pathomechanism, symptoms and consequences
- C3. Laboratory parameters of the hemostasis. Special aspects of dental treatment for patients with bleeding disorders
- C4. Hemopoiesis. Reactive blood changes. Hemopoetic stem cell transplantation
- C5. Leukemias and their oral consequences
- C6. Anemias, leukopenias, thrombocytopenias and their oral consequences
- C7. Periodontitis and systemic diseases
- C8. Mastication and the temporomandibular joint
- C9. Investigation methods for dentin and enamel
- C10. Saliva as a protective agent in the oral cavity. Salivary components and their role
- C11. Saliva collection methods. Xerostomia and hyposalivation. Salivary biomarkers
- C12. Oral defense mechanisms
- C13. Development and maturation of the dental plaque
- C14. Oral clearance
- C15. Molecular diagnostics in dentistry – diseases of the oral cavity: genetics and genomics