GENERAL EMBRYOLOGY

1. Gametogenesis

2. Oogenesis

3. Spermatogenesis

4. Ovarian cycle

5. Fertilization

6. Cleavage (zygote division)

7. Uterus at the time of implantation

8. Bilaminar germ disc

9. Gastrulation

10. Notochord

11. Derivatives of ectoderm

12. Neurulation

13. Derivatives of mesoderm

14. Derivatives of endoderm

15. External appearance of the embryo during the second month

16. Fetal period (changes through months)

17. Placenta development (changes in the trophoblast)

18. Development of fetal membranes

19. Morphology of the placenta

20. Function of the placenta

21. Development of umbilical cord

22. Amniotic fluid

23. Birth defects (types of abnormalities)

SPECIAL EMBRIOLOGY

1. Development of neurocranium

2. Development of viscerocranium

3. Limbs growth and development

4. Development of vertebrae

5. Development and formation of the skeletal muscles

6. Development and formation of the head musculature

7. Development and formation of the limb musculature

8. Development of cardiac and smooth muscle

9. Formation of intraembryonic coelom

10. Development of diaphragm

11. Formation and position of the heart tube

12. Formation of the cardiac loop

13. Development of the sinus venosus

14. Formation of the cardiac septa

15. Development of arteries and veins

16. Fetal circulation

17. Formation of the lung bud

18. Maturation of the lungs

19. Primitive gut

20. Development of mesentery

21. Development and derivatives of the foregut

22. Development and derivatives of the midgut

23. Development and derivatives of the hindgut

24. Development of the kidney

25. Development of the bladder and urethra

26. Development of the female gonads

27. Development of the male gonads

28. Development of the female genital ducts

29. Development of the male genital ducts

30. Development of external genitalia

31. Derivatives of pharyngeal arches

32. Derivatives of pharyngeal pouches and clefts

33. Development of the tongue and thyroid gland

34. Development of the face

35. Development of the tooth

36. Development of the spinal cord

37. Differentiation of the cells of the nervous system

38. Brain development

39. Development of autonomic nervous system

40. Development of the internal ear

41. Development of the middle and external ear

42. Eye development

43. Skin development

GENERAL HISTOLOGY

1. Intercellular junctions

2. Specializations of the apical cell surface

3. Basal lamina and basement membrane

4. Types of the epithelium

5. Connective tissue cells and fibers

6. Collagen type I biosynthesis

7. Connective tissue ground substance

8. Types of the connective tissue

9. Storage and mobilization of lipids in the adipocyte

10. Types of the cartilage

11. Bone cells

12. Morphology of the bone

13. Intramembranous ossification

14. Endochondral ossification

15. Neuron morphology

16. Synapses

17. Supporting cells of the nervous system

18. Central nervous system morphology

19. Morphology of the nerve fibers

20. Morphology of the autonomic nervous system

21. Skeletal muscle and fiber organization and morphology

22. Muscle contraction mechanism

23. Neuromuscular junction

24. Morphology of the cardiac muscle

25. Morphology of the smooth muscle

SPECIAL HISTOLOGY

1. Morphology of the blood vessels

2. Types of the capillaries

3. Blood cells

4. Morphology of the bone marrow

5. Morphology of the lymphoid organs

6. Basic types of immune reactions

7. Cells of the immune system

8. Morphology of the digestive tube

9. Morphology of the oral cavity

10. Morphology of the stomach

11. Morphology of the small intestine and large intestine

12. Morphology of the salivary glands

13. Morphology of the pancreas

14. Morphology of the liver

15. Morphology of the conducting part of the respiratory system

16. Morphology of the respiratory part of the respiratory system

17. Skin morphology

18. Hair morphology

19. Kidney morphology

20. Morphology of the lower part of the urinary system

21. Pituitary gland morphology

22. Adrenal gland morphology

23. Morphology of thyroid and parathyroid glands

24. Morphology of the testis and prostate

25. Morphology of male genital ducts

26. Ovary morphology

27. Morphology of the uterus and vagina

28. Mammary gland morphology

29. External layer of the eye

30. Middle layer of the eye

31. Inner layer of the eye

32. Middle ear

33. Inner ear