

Preface

Acknowledgments

Online Digital Atlas and Instructor Resources

PART I: CELL AND TISSUE HISTOLOGY– OVERVIEW OF HISTOLOGY, CELL STRUCTURE, AND TISSUES

1. Introduction to Human Microanatomy and its Associated Techniques

(Pioneering Histologist, Marcello Malpighi)

2. Primer of Cellular Ultrastructure

(Henri de Toulouse-Lautrec's Lysosomes; Ronald Reagan's Golgi Bodies; Alice Martineau's Endoplasmic Reticulum; Charlie Gard's Mitochondria; Lou Gehrig's Nuclei; Frances Oldham Kelsey's Telomeres)

3. Overview of Embryology and the Four Basic Tissue Types with Emphasis on Epithelium and Connective Tissue Proper

(Pioneering Experimental Embryologist, Hilde Mangold; Althea Gibson's Ligaments; Cesar Chavez's Collagen Fibers; Niccolo Paganini's Elastic Fibers)

4. Cartilage and Bone

(Christiaan Barnard's Cartilage; Elizabeth Taylor's Intervertebral Discs; King Tut's Foot Bones; Harriet Tubman's Skull Bones)

5. Adipose Tissue

(William Taft's Fat)

PART II: TISSUE AND ORGAN HISTOLOGY– BLOOD, CIRCULATORY AND LYMPHATIC SYSTEMS, MUSCLES, NERVOUS SYSTEM, AND SKIN

6. Blood

(Miles Davis's Erythrocytes; Yasser Arafat's Platelets; Sadako Sasaki's Leukocytes; Eleanor Roosevelt's Bone Marrow)

7. Circulatory and Lymphatic Systems

(Margaret Thatcher's Arteries; Richard Nixon's Veins; Frederick Douglass's Heart; Golda Meir's Lymph Nodes; James Garfield's Spleen; Virginia Alexander's Thymus)

8. Muscles

(Darius Weems's Skeletal Muscles; Mother Teresa's Cardiac Muscles; King Kamehameha IV's Smooth Muscles)

9. Nervous System

(Annette Funicello's Myelinated Nervous Tissue; Abraham Lincoln's Putative Neuromas; Muhammad Ali's Brain; Marilyn Monroe's Mental Health)

10. Skin

(Michael Jackson's Epidermis; Bob Marley's Melanocytes; Marie Antoinette's Hair; Benjamin Harrison's Dermis; Frida Kahlo's Skin Wounds)

PART III: ORGAN HISTOLOGY— DIGESTIVE, RESPIRATORY, AND ENDOCRINE SYSTEMS

11. Digestive System I: Oral Cavity

(Ada Lovelace's Oral Mucosa; Gerald Ford's Tongue; Gordy Howe's Teeth; Grover Cleveland's Palate; Andrew Jackson's Salivary Glands, Elvis Presley's Tonsils)

12. Digestive System II: Pharynx to Anus

(Princess Diana's Esophagus; Doreen Kartinyeri's Stomach; Maurice Gibb's Small Intestine; Edward Plunkett's Appendix; Corazon Aquino's Colon)

13. Digestive System III: Liver, Gallbladder, and Pancreas

(Billie Holiday's Liver; Mary Mallon's Gallbladder; Sally Ride's Pancreas; Sejong the Great's Pancreatic Islets)

14. Respiratory System

(Amelia Earhart's Nasal Cavity; George Washington's Epiglottis; Mary Wells's Larynx and Trachea; Pocahontas's Bronchi; Indira Gandhi's Lungs; Catherine the Great's Pleural Membranes)

15. Endocrine System

(Zelda Fitzgerald's Pineal Body; Barbara Bush's Hypothalamus; Pio Pico's Anterior Pituitary; Vera Schmidt's Thyroid; Garry Shandling's Parathyroid Glands; John Kennedy's Adrenal Glands)

PART IV: ORGAN HISTOLOGY– URINARY SYSTEM, REPRODUCTIVE SYSTEMS, AND SENSORY ORGANS

16. Urinary System

(Idi Amin's Kidneys; Christine Jorgensen's Bladder; Franklin Roosevelt's Renin-Angiotensin System)

17. Male Reproductive System

(Adolf Hitler's Testes; John Tyler's Epididymi and Vasa Deferentia; Pablo Neruda's Prostate)

18. Female Reproductive System

(Coretta Scott King's Ovaries; Eva Perón's Uterus; Mumtaz Majal's Placentas; Yao Beina's Mammary Glands)

19. Eyes

(Aldous Huxley's Corneas; Marie Curie's Lenses; Theodore Roosevelt's Retinas)

20. Ears

(Juliette Gordon Low's Ears; Helen Keller's Cochleas and Optic Nerves)

Figure Citations for Medical Histories

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