Fall 2021  Mon, Weds, Fri, 8:30-10:00am
BRB 253
Directors: Dr's Tejvir S. Khurana, Benjamin L. Prosser, Paul M. Titchenell

Membrane Physiology
Sep. 1  Dr. Hoshi  Action Potentials/Voltage-gates Ion Channels
Sep. 3  Dr. Hoshi  Synaptic Transmission and Ligand-gated Ion Channels

Sept. 6  No class (Labor Day)

Nervous System
Sept. 8  Dr. Thomas  Nervous System
Sept. 10 Dr. Thomas  Central Nervous System
Sept. 13 Dr. Thomas  Peripheral Nervous System

Muscle Physiology
Sept. 15 Dr. Ostap  Contractile Proteins and Striated Muscle-1
Sept. 17 Dr. Ostap  Striated Muscle-2
Sept. 20 Dr. Ostap  Smooth Muscle

Cardiovascular System
Sept. 22 Dr. Prosser  Cardiac and Skeletal Muscle Signaling
Sept. 24 Dr. Margulies  Myocardial Physiology and Cardiac Pump Function
Sept. 27 Dr. Margulies  Vascular Physiology

Sept. 29  Self Study

Oct. 1  Dr. Margulies  Cardiovascular Integration

Oct. 4  Exam 1 (Membranes, Neuro, Muscle, Cardiovascular)

Renal System
Oct. 6  Dr. Hillburg  Organization of the Kidney and Glomerular Filtration
Oct. 8  Dr. Hillburg  Regulation of Sodium Balance
Oct. 11 Dr. Bahrainwala  Renal Regulation of Potassium and Acid Balance
Oct. 13 Dr. Bahrainwala  Renal Regulation of Water Balance

Oct. 14-17  No class (Fall Break)

Endocrine Physiology
Oct. 18 Dr. Titchenell  Neuroendocrinology
Oct. 20 Dr. Titchenell  Thyroid; Adrenal
Oct. 22 Dr. Titchenell  Glucose Homeostasis; Insulin Signaling

Reproductive Physiology
Oct. 25 Dr. Mainigi  Female Reproductive Physiology
Oct. 27 Dr. Dokras  Fertilization

Oct. 29  Self Study

Nov. 1  Dr. Masson  Male Reproductive Physiology
**Nov. 3**  
*Exam 2 (Renal, Endo, Reproductive)*

**Nov. 5**  
*No class*

**Integration**

- **Nov. 8**  
  Dr. Khurana  
  Integrative Responses to Exercise

- **Nov. 10**  
  Dr. Khurana  
  Integrative Responses to the Environment

**Digestive System**

- **Nov. 12**  
  Dr. Hamilton  
  GI Tract Structure and Motility/Absorption

- **Nov. 15**  
  Dr. Hamilton  
  The Integrated Response to a Meal

- **Nov. 17**  
  Dr. Hayes  
  Neuro-endocrine control of food intake

- **Nov. 19**  
  Dr. Thaiiss  
  Gut microbiome

**Sensory System**

- **Nov. 22**  
  Dr. Genovese  
  Sensory Physiology

**Nov. 24**  
*Self Study*

**Nov. 25-28**  
*No Classes (Thanksgiving Break)*

**Respiratory System**

- **Dec. 1**  
  Dr. Frank  
  Ventilation/Perfusion & Gas Exchange and Transport

- **Dec. 3**  
  Dr. Frank  
  Gas Exchange and Transport

**Dec. 6**  
*Self Study*

**Dec. 8**  
*Exam 3 (Digestive, Respiratory, Sensory, Integration)*