### CAMB 532 HUMAN PHYSIOLOGY

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**

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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. Thaiss 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)