

Plenary Lectures And Symposia

Sunday

Plenary Lecture	A-1
Comparative Intestinal Nutrient Transport	A-1
Comparative Aspects of Functional Morphology of the Respiratory System	A-3
Coping with Extreme Conditions: Adaptations of Metabolism and Epithelial Transport Mechanisms in Invertebrates	A-5

Monday

Plenary Lecture	A-7
The Organization and Modulation of Homeostatic Systems	A-7
NMR Spectroscopy: A New Technology is Helping to Solve Old Problems	A-9
Nonmammalian Models for the Study of Cardiovascular and Renal Homeostasis: Integrative and Cellular Approach	A-11
Intracellular and Extracellular Acid-Base Regulation in Animals	A-13

Tuesday

Plenary Lecture	A-15
The Role of Concentric Granules in Nitrogenous Excretion and Ion Regulation in Birds, Molluscs and Insects	A-15
Field Physiology: Expanding our Laboratory Horizons	A-17
The Comparative Physiology of Atriopeptin in Fishes	A-19
Comparative Aspects of Maximum Exercise	A-21

Wednesday

Plenary Lecture	A-23
New Insights in Vertebrate Kidney Function	A-23
The Physiology of Developing Marsupials	A-25
Control of Breathing in Fishes	A-28
Comparative Aspects of Metabolic Regulations	A-30

Poster And Slide Sessions

Sunday

Comparative Endocrinology	A-33
Comparative Physiology: Epithelial Transport	A-34
Comparative Physiology: Control of Breathing	A-35
Comparative Physiology: Muscle and Locomotion	A-36
Comparative Physiology: Osmotic and Ionic Regulation	A-37
Cardiac Electrophysiology	A-39
Atrial Natriuretic Factors	A-39
The Undergraduate Laboratory: Teaching Basic Laboratory Skills and Physiological Principles	A-40
Teaching of Physiology: Enhancement of the Pedagogical Process	A-41
Respiratory Pharmacology	A-42
Respiratory Muscle Physiology	A-43
Pulmonary Reflexes	A-44
Pulmonary Reflexes	A-44
Inflammation	A-46
Lung Development	A-47
Pleural Space	A-47
Tissue Transport	A-48
Altitude and Chronobiology	A-49
Control of Breathing	A-50
Hypertension Physiology	A-53
Endothelium-Dependent Responses	A-55
Metabolic Regulation/Insulin and Glucagon	A-56

Monday

Comparative Respiratory Society I	A-57
Comparative Respiratory Society II	A-59
Comparative Physiology: Scholander Award Competition	A-61
Comparative Physiology: Respiration/Acid-Base	A-68
Comparative Physiology: NMR Spectroscopy	A-72
Exercise	A-73
Gravitational Biology	A-76
Coronary and Cerebral Circulations	A-77
Red Blood Cells	A-78
Body Fluid Regulation	A-79
Mechanics of Breathing	A-80
Comparative Aspects of Epithelial Transport	A-84

Tuesday

Comparative Physiology: Temperature Adaptation and Energetics	A-85
Comparative Physiology: Maximal Exercise	A-88
Comparative Physiology: Field Physiology	A-89
Peripheral Circulation and Shock	A-92
Renal Physiology and Pathophysiology	A-94
Sex Hormones/Reproduction/Fetal Biology	A-96
Microcirculation	A-98
Pulmonary Circulation and Fluid Balance	A-101
Membrane Transport	A-104
Temperature Regulation	A-105
Cardiac Dynamics and Metabolism	A-106

Wednesday

Comparative Biochemistry/Metabolic Regulation	A-108
Comparative Physiology: Heart and Circulation	A-111
Comparative Physiology: Kidney/Nitrogen Excretion	A-113
Hibernation and Hypothermia	A-114
Regulation of Epithelial Function by Environmental Factors	A-116
Ontogeny of Gastrointestinal Secretory Functions	A-117
Neural Regulation of Gastrointestinal Secretion	A-117
Cardiac Muscle Physiology	A-118
Smooth Muscle Physiology	A-119
Skeletal Muscle Physiology and Cytoskeleton	A-120
Pulmonary Ventilation	A-123
Lung Cell	A-124
Cardiovascular Adrenergic Systems	A-125
Blood Pressure Regulation	A-126
Neuroendocrine	A-127
Aging	A-128
Neuroscience	A-129
Neural Control of Blood Pressure	A-131
Author Index	A-133