

**American Journal of Physiology: Endocrinology and Metabolism  
Editorial Board (As of July 1, 2009)**

**EDITOR IN CHIEF**

**Amira Klip, PhD**

Areas of Interest

- Glucose transport and transporters
- Insulin and exercise signaling
- Cellular basis of insulin resistance
- Vesicle traffic
- Skeletal muscle systems

**ASSOCIATE EDITORS**

**Patricia Brubaker, PhD**

Areas of Interest

- Synthesis, secretion, and bioactivity of regulatory peptides from the intestine, pancreas and brain
- Intestinal growth and function
- Islet growth and function
- Glucagon and glucagon-like peptides (GLP-1, GLP-2)
- Diabetes
- Intestinal insufficiency
- Satiety and obesity

**Meredith Hawkins, MD**

Areas of Interest

- Hepatic glucose production
- Neural input to the liver
- Fatty-acid homeostasis
- Insulin resistance and metabolic syndrome
- Plasminogen-activator inhibitor-1
- Macrophage-adipocyte cross-talk
- Adiponectin

**Charles H. Lang, PhD**

Areas of Interest

- Cardiac protein metabolism
- Trauma
- Sepsis
- Endotoxin and inflammation
- Epinephrine
- TNF $\alpha$
- Macrophages

- Insulin-like growth factors
- Binding proteins and growth hormone
- Nutrition
- Protein synthesis and catabolism
- Glucocorticoids
- Glucose metabolism
- Cytokine signaling
- Alcohol
- Thermal injury (burns)
- Translation control of protein synthesis

**André Marette, PhD**

Areas of Interest

- Nitric Oxide and AMPK in insulin action and resistance
- mTOR/S6K1 pathway
- Dietary proteins and insulin resistance
- Phosphatases and insulin signaling
- Obesity and inflammation
- AMPK and exercise

**Kelle H. Moley, MD**

Areas of Interest

- Fertilization and implantation
- Glucose transporters in reproductive tissues
- Meiosis in oocytes
- Maternal diabetes and oocyte maturation
- Signaling in embryo
- Blastocyst physiology and survival

**Martin G. Myers Jr., MD, PhD**

Areas of Interest

- Diabetes and metabolism
- Neural control of metabolism and energy balance
- Leptin signaling
- Neuroendocrine pathways
- Insulin signaling
- Leptin
- Hypothalamus

**Michael J. Quon, MD, PhD**

Areas of Interest

- Insulin resistance
- Insulin signaling
- Endothelial dysfunction
- Nitric oxide
- Mathematical modeling

- Clinical investigation
- Metabolic syndrome
- Glucose homeostasis
- Vascular biology

**Juleen Zierath, PhD**

Areas of Interest

- Insulin resistance and insulin signaling
- Type 2 diabetes
- Exercise physiology and metabolism
- AMPK and energy metabolism in skeletal muscle
- Glucose transport in skeletal muscle
- Calcineurin

**EDITORIAL BOARD**

**E. Dale Abel, MBBS, DPhil**

Areas of Interest

- Mitochondrial function in obesity and diabetes
- Cardiac consequences of obesity and diabetes

**Lydia Aguilar-Bryan, MD, PhD**

Areas of Interest

- Pancreatic islet biology
- Insulin secretion
- Beta cell apoptosis
- Ion channel regulation
- Hypoglycemia

**Kwangmi Ahn, PhD**

Area of Interest

Statistics

**Eugene J. Barrett, MD, PhD**

Areas of Interest

- Insulin action
- Exercise
- Blood flow
- Protein metabolism
- Skeletal muscle

**Michel Beylot, MD, PhD**

Areas of Interest

- Tracers methodology
- Lipids
- Obesity

- Diabetes
- Atheroma
- insulin-resistance
- Adiponectin
- Stable isotopes

**Philip J. Bilan, PhD**

Areas of Interest

- Glucose transport
- Insulin signaling
- Insulin resistance
- Muscle metabolism
- AMP-activated protein kinase (AMPK)
- Glucose homeostasis
- Actin cytoskeleton
- Diabetes

**Christian Bjorbaek, PhD**

Areas of Interest

- Leptin
- Obesity
- Hypothalamus
- Neuropeptides
- Signaling
- Central insulin signaling

**V. Gustavo Blanco, MD, PhD**

Areas of Interest

- Na, K-ATPase
- Na, K-ATPase isozymes
- Ion-motive ATPases
- Ouabain
- Digitalis-like compounds
- Sperm physiology

**Sue C. Bodin, Ph.D.**

Areas of Interest

- Skeletal muscle atrophy
- Regulation of skeletal muscle mass
- Protein synthesis and muscle hypertrophy
- MuRF1 and MAFbx/Muscle E3 ligase
- Metabolic diseases and muscle loss
- IGF1 and skeletal muscle
- Skeletal muscle function

**George A. Brooks, PhD**

Areas of Interest

- Lactate metabolism
- Lactate transporter expression
- Exercise
- Glucose fatty acid interactions
- Mitochondria
- Altitude

**Wenhong Cao, MD**

Areas of Interest

- Gluconeogenesis
- Hepatic lipogenesis
- Signal transduction
- Insulin resistance
- MAP kinases
- Mitochondrial dysfunction

**Gregory D. Cartee, PhD**

Areas of Interest

- Glucose transport
- Exercise metabolism
- Calorie restriction
- Insulin signaling

**Christin Carter-Su, PhD**

Areas of Interest

- Growth hormone receptors, signaling pathways, and function
- Prolactin receptors and signaling pathways
- Leptin receptors and signaling pathways
- Cytokine family of receptors and their signaling pathways (this includes all receptors that activate JAK tyrosine kinases such as EPO, LIF, IFNs, most interleukins, but does not include IL-1, IL-8, TNF, etc)
- JAK tyrosine kinases
- Stat transcription factors
- SH2B family adapter proteins

**Bandana Chatterjee, PhD**

Areas of Interest

- Androgen action
- Prostate
- Orphan nuclear receptors
- Metabolic syndrome
- Inflammation
- Hormonal cancer

**Naibedya Chattopadhyay, PhD**

Areas of Interest

- Parathyroid hormone
- Vitamin D
- Bone
- Hypercalcemia of malignancy
- Calcium signaling

**Alexander V. Chibalin, PhD**

Areas of Interest

- Sodium pump (Na,K-ATPase)
- Whole body potassium homeostasis
- Glucose transporter biology
- Membrane traffic
- Effect of exercise/muscle contraction on glucose metabolism and ion homeostasis
- Physiological effects of proinsulin C-peptide

**Streamson C. Chua, Jr., MD, PhD**

Areas of Interest

- Leptin
- Leptin receptor
- Genetics
- Diabetes modifier genes
- Obesity
- Diabetes mellitus, type 2
- Diabetic nephropathy
- Hyperphagia
- Neuropeptides

**Gary Cline, PhD**

Areas of Interest

- Islet beta cell
- Metabolism
- Insulin secretion
- Insulin resistance
- NMR
- Mass spectroscopy

**John Clore, MD**

Areas of Interest

- Type 2 diabetes mellitus
- Free fatty acids
- Gluconeogenesis
- Hepatic insulin resistance
- Fatty acid composition

**Cheryl A. Conover, PhD**

Areas of Interest

- Insulin-like growth factors (primary area of interest)
- Aging
- Cell physiology
- Cardiovascular disease
- Bone physiology

**Kirk P. Conrad, MD**

Areas of Interest

- Maternal cardiovascular and renal adaptations to normal and abnormal pregnancies (preeclampsia and intrauterine growth restriction)
- Cardiovascular and renal actions of relaxin
- Normal and pathological placentas (preeclampsia and intrauterine growth restriction)

**Robert Considine, PhD**

Areas of Interest:

- Adipose tissue
- Adipokines
- Diabetes
- Obesity
- Food intake

**Greg Cooney, PhD**

Areas of Interest

- Insulin resistance
- Obesity
- Energy expenditure
- Type 2 diabetes
- Animal models

**John A. Corbett, PhD**

Areas of Interest

- Beta cell biology
- Cell death
- Cell stress
- Cytokines and cytokine signaling
- Innate immunity

**David D'Alessio, MD**

Areas of Interest

- Insulin secretion
- Incretins
- glucose tolerance
- diabetes

- gut hormones

**Yves Deshaies, PhD**

Areas of Interest

- Physiological effects and mechanisms of action of PPAR ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) agonism
- Adipose tissue metabolism
- Liver lipid metabolism
- Triglyceride-rich lipoprotein metabolism and its hormonal modulation
- Impact of insulin resistance and inflammation on lipid metabolism

**Nicolaas EP Deutz, MD, PhD**

Areas of Interest:

- Nutrition
- Amino acids
- Stable isotopes
- Protein synthesis
- Interorgan metabolism

**Sherin U. Devaskar, MD**

Areas of Interest

- Any developmental studies targeted at metabolism
- Nutrient transporters during development
- Fetal origins of adult disease
- Postnatal diet influences
- Hypothalamus and energy balance

**Henry J. Donahue, PhD**

Areas of Interest

- Bone
- Mechanotransduction
- Gap junctions
- Fluid flow
- Cancer metastasis
- Biomaterials
- Tissue engineering

**Jeffrey S. Elmendorf, PhD**

Areas of Interest

- Cytoskeletal systems and regulation
- GLUT4 and other glucose transporters
- Insulin signaling and insulin resistance
- Hypercholesterolemia/plasma lipoproteins
- Plasma membrane cholesterol/lipids
- Exercise, AMPK, and insulin sensitivity

**Harry Elsholtz, PhD**

### Areas of Interest

- Pituitary
- G-protein coupled receptors
- Signal transduction, kinase pathways
- Transcription regulation, DNA-binding proteins, chromatin
- Structure/function analysis of proteins, mutagenesis, siRNA

### **Shereen Ezzat, MD**

#### Areas of Interest

- Pituitary
- Growth hormone
- Fibroblast growth factors (and receptors)
- Endocrine oncology

### **I. George Fantus, MD**

#### Areas of Interest

- Insulin signaling/receptors
- Adipocytes (adipose tissue)
- Tyrosine kinase
- Glucose transport
- Hexosamines (O-glycosylation)
- Diabetic nephropathy (complications)
- Insulin resistance and cancer

### **Mark A. Febbraio PhD**

#### Areas of Interest

- Insulin resistance,
- Inflammation,
- Signal transduction
- Obesity,
- Cytokines

### **Jorge P. Figueroa, MD, PhD**

#### Areas of Interest

- Maternal adaptations to pregnancy
- Steroids and pregnancy
- Nitric oxide
- Endocrinology of pregnancy and parturition
- Fetal programming
- Fetal growth and metabolism
- Metabolic syndrome

### **James D. Fluckey, PhD**

#### Areas of Interest

- Protein synthesis or mRNA translation
- Insulin signaling

- Resistance exercise
- Microgravity
- Skeletal muscle protein metabolism

**Adria Giacca, MD**

Areas of Interest

- Lipotoxicity
- Glucotoxicity
- Hepatic insulin action and clearance
- Oxidative stress
- Glucose and insulin kinetics
- Vascular effects of insulin

**Vincent Giguere, PhD**

Areas of Interest

- Nuclear receptors
- Estrogen
- Functional genomics
- Transcriptional Regulation
- Cardiac energetics

**Ira J. Goldberg, MD**

Areas of Interest

- Lipases
- Lipoproteins
- Lipotoxicity
- Cardiac energetics
- Diabetes-atherosclerosis

**Laurie J. Goodyear, PhD**

Areas of Interest

- Skeletal muscle
- Exercise
- AMPK
- Glucose transport
- Type 2 diabetes

**George H. Greeley, PhD**

Areas of Interest

- Gastrointestinal
- Pancreas
- Molecular
- Hormone
- Secretion
- Insulin

**Philippe Halban, PhD**

Areas of Interest

- Beta cell growth and survival
- Islet inflammation
- Beta cell function in type 2 diabetes
- Proinsulin biosynthesis and processing
- Beta cell glucotoxicity

**Gary Hammer, MD, PhD**

Areas of interest

- Adrenal
- Steroidogenesis
- Adrenal transcription
- Adrenal cancer
- Adrenal signaling

**Chad Hancock, PhD**

Areas of Interest

- Skeletal muscle insulin resistance
- AMPK
- Exercise
- Phosphocreatine and adenine nucleotides (ATP, ADP, AMP)
- AMP deaminase

**Mark Hargreaves, PhD, FACSM**

Areas of Interest

- CHO metabolism during exercise
- Muscle glycogen
- Glucose uptake
- GLUT4
- Metabolic factors in fatigue

**John A. Hawley, PhD**

Areas of Interest

- Exercise training
- Insulin resistance
- Lipid/fat metabolism
- Carbohydrate metabolism
- Cell signaling

**William W. Hay, Jr., MD**

Areas of Interest

- Metabolism and transport of glucose in the pregnant mother, fetus, placenta, and newborn
- Metabolism and transport of amino acids in the pregnant mother, fetus, placenta, and newborn

- Fetal and neonatal insulin action
- Fetal and neonatal insulin production
- Fetal and neonatal nutrition, metabolism, and growth
- Fetal/developmental origins of adult disease

**Cecilia Holm**

Areas of Interest

- lipid metabolism
- lipase
- adipocyte biology
- insulin secretion
- insulin resistance

**Hari Hundal, PhD**

Areas of Interest

- Insulin signaling
- Glucose transport
- Amino acid transport
- Skeletal muscle
- Adipose tissue

**Jørgen Jensen, PhD**

Areas of Interest

- Muscle metabolism
- Insulin signaling
- Adrenaline
- Glycogen synthase
- Exercise

**Tianru Jin, MD, PhD**

Areas of Interest

- Wnt signaling pathway
- cAMP/PKA/Epac signaling
- Insulin signaling
- Homeodomain proteins
- Proglucagon gene and GLP-1

**Maureen Keller-Wood, PhD**

Areas of Interest

- Hypothalamo-pituitary-adrenal axis
- Pregnancy and/or placental hormones
- glucocorticoid or mineralocorticoid receptors
- fetus, development
- effects of hormones or hormone bioactivation/inactivation in lung, kidney or cardiovascular systems

**Jason K. Kim, PhD**

Areas of Interest

- Insulin resistance
- Obesity
- Inflammation
- Heart
- Metabolism

**Young-Bum Kim, PhD**

Areas of Interest

- Insulin signaling and insulin action
- Insulin resistance
- Glucose metabolism
- Obesity
- Leptin signaling

**Scot R. Kimball, PhD**

Areas of Interest

- mRNA translation
- mTOR signaling
- Branched-chain amino acids
- Insulin
- AMP-activated protein kinase

**Kwang Kon Koh, MD, PhD**

Professor of Medicine

Areas of Interest

- Endothelial function
- Inflammation
- Insulin resistance
- Adipokines
- Atherosclerosis
- Clinical investigation

**Daniel Konrad, MD, PhD**

Areas of Interest

- Insulin resistance
- Obesity
- Adipokines
- Adipose tissue inflammation
- Insulin-mediated glucose uptake

**Anjan Kowluru, PhD**

Areas of Interest

- Pancreatic islet
- Insulin secretion
- Protein kinases and phosphatases

- GTP-binding proteins
- Signal transduction

**Anna Krook, PhD**

Areas of Interest

- Insulin signaling
- Glucose transport
- Regulation of skeletal muscle metabolism
- Type 2 diabetes
- Insulin resistance
- Effect of exercise/muscle contraction on skeletal muscle metabolism
- Effect of cytokines on skeletal muscle metabolism

**Sergio Lavandero, PhD**

Areas of Interest

- Signal transduction
- Growth factors
- Peptide and steroid hormones
- Cell biology
- Cardiovascular physiology and pathology

**Todd Leff, PhD**

Areas of Interest

- AMP-activated protein kinase (AMPK)
- PPARs
- HNF4
- Transcriptional regulation

**Yannick LeMarchand-Brustel**

Areas of Interest

- Insulin action and signaling (animal, cellular and molecular studies)
- Insulin resistance
- Glucose transport and metabolism (muscle and adipocyte)
- Adipokines
- Fatty liver diseases (NAFLD, NASH)

**Gary F. Lewis, MD**

Areas of Interest

- Lipoprotein metabolism
- In vivo insulin secretion and action
- HDL metabolism
- VLDL metabolism
- In vivo glucagons-like peptide mechanism of action

**Hung-Mo Lin, PhD**

Area of Interest

Biostatistics

**Feng Liu, PhD**

Areas of Interest

- Insulin signaling
- Adiponectin
- Kinase
- Phosphorylation
- Caloric restriction

**Zhenqi Liu, MD**

Areas of Interest

- Diabetes
- Insulin signaling
- Insulin resistance
- Endothelial function
- Cardiovascular complications

**Gary Lopaschuk, PhD**

Areas of Interest

- Fatty acid oxidation
- Cardiac energy metabolism
- Malonyl-CoA
- Lipotoxicity
- AMP-activated protein kinase

**Anne B. Loucks, PhD**

Areas of Interest

- Amenorrhea
- Luteinizing hormone pulsatility
- Energy availability
- Bone markers
- Nutritional infertility

**Xin-Liang Ma, MD, PhD**

Areas of Interest

- Apoptosis
- Ischemia/reperfusion
- Oxidant/antioxidant
- Heart
- Endothelium

**Patrick MacDonald, PhD**

Areas of Interest

- Insulin secretion
- Glucagon secretion

- Pancreatic islet function
- Ion channel function and regulation
- Exocytosis and membrane fusion
- PI3 kinase and cAMP signaling

**Robert G. MacKenzie, PhD**

Areas of Interest

- Brain
- Hypothalamus
- Dopamine
- Appetite
- Obesity

**Daniel J. MacPhee, PhD**

Areas of Interest

- Uterus
- Myometrium
- Placenta
- Trophoblast
- Focal Adhesion Signalling

**Daniel L. Marks, MD, PhD**

Areas of Interest

- Obesity
- Cachexia
- Melanocortin
- Insulin resistance
- Neuroendocrinology

**Owen P. McGuinness, PhD**

Areas of Interest

- Whole body (carbohydrate, fat and to a lesser extent protein) metabolism in species
- Interaction between inflammation and metabolic processes

**William E. Mitch, MD**

Areas of Interest

- Protein metabolism
- Cell signaling
- Muscle metabolism
- Insulin/IGF-1
- Amino acid metabolism

**Jane A. Mitchell, PhD**

Areas of Interest

- Parathyroid hormone
- Bone
- Cartilage
- Signal transduction
- G protein-coupled receptors

**Patricia E. Molina, MD, PhD**

Areas of Interest

- Neuroendocrine
- Hypoglycemia
- Counter regulation
- Metabolism
- Stress
- Endocrine-Immune
- Inflammation

**Monica Montagnani, MD, PhD**

Areas of Interest

- Insulin signaling pathway
- Endothelial dysfunction/vascular complications
- Nitric oxide
- Metabolic syndrome
- Pharmacological treatment

**Christopher Morrison, PhD**

Areas of Interest

- Obesity
- Ingestive behavior
- Hypothalamus
- Energy homeostasis
- Intracellular signaling

**Heike Münzberg, PhD**

Areas of Interest

- Neuroendocrinology/neuroanatomy
- Leptin
- Obesity
- Energy homeostasis/thermoregulation
- Diabetes

**Jan Nedergaard, PhD**

Areas of Interest

- Brown adipose tissue
- Uncoupling proteins
- Thermogenesis
- Adrenergic effects (norepinephrine, epinephrine)

- Obesity

**Mona Nemer, PhD, FRSC**

Areas of Interest

- Transcription
- Heart Development
- Cardiomyopathies
- Angiotensin Receptors
- Natriuretic Peptides

**Donal O’Gorman**

Areas of Interest

- Insulin resistance
- Exercise
- Metabolism
- Mitochondrial biogenesis
- Gene expression

**Ann Louise Olson, PhD**

Areas of Interest

- Insulin action
- Glucose transport
- Adipocyte
- Myocyte
- Transcriptional regulation

**Tommy Olsson, MD, PhD**

Areas of Interest

- Obesity
- Glucocorticoids
- Adipokines
- Pituitary
- Adrenal

**Gianluca Perseghin, MD**

Areas of Interest

- Insulin resistance
- Fatty acids metabolism
- Ectopic and periorgan fat
- Magnetic resonance imaging and spectroscopy
- NAFLD/NASH

**Kitt Falk Petersen, MD**

Areas of Interest

- NMR spectroscopy in humans
- Type 2 diabetes

- Insulin resistance
- Obesity
- Non-alcoholic fatty liver disease
- Weight loss

**Marc Prentki, PhD**

Areas of Interest

- Insulin secretion
- Metabolism
- Pancreatic  $\beta$ -cell growth
- Signal transduction
- Gene expression

**Jerry Radziuk, PhD, MD, CM, FRCP(C)**

Areas of Interest

- Carbohydrate and intermediary metabolism
- Mathematical modeling of metabolic and hormonal systems
- Diabetes and metabolism (pathophysiology, pharmacology etc)
- Insulin kinetics and dynamics
- Tracers and tracer kinetics

**Sasanka Ramanadham, PhD**

Areas of Interest

- Islet biology
- Beta-cell apoptosis
- Insulin resistance
- HIV-protease inhibitor-induced metabolic abnormalities
- Bone physiology

**Michael Roden, MD**

Areas of Interest

- Mitochondrial function muscle/liver
- Free fatty acids and intracellular lipids (muscle, liver)
- Glucose metabolism in humans
- Insulin resistance
- Magnetic resonance spectroscopy
- Exercise in humans

**Richard A. Roth, PhD**

Areas of Interest

- Insulin resistance (in particular IRS serine phosphorylation)
- Akt (substrates, mechanism of action)
- mTOR (substrates, mechanisms for activation)
- insulin degradation (IDE or insulinase)

**Assaf Rudich, PhD, MD**

#### Areas of Interest

- Adipose tissue biology
- Regulation of lipolysis
- Obesity and lipodystrophy
- Adipokines
- Oxidative stress

#### **Liangyou Rui, PhD**

##### Areas of Interest

- Leptin signaling and resistance
- Insulin signaling and resistance
- Liver and adipose tissue regulation of glucose/lipid metabolism
- Obesity
- Regulation of energy/glucose metabolism by SH2B- and JAK2-pathways

#### **Mario JA. Saad, MD**

##### Areas of Interest

- Insulin resistance
- Insulin signaling
- Obesity
- Type 2 diabetes mellitus
- Tyrosine kinases

#### **Kei Sakamoto, PhD**

##### Areas of Interest

- Muscle metabolism
- Cellular signaling
- Insulin resistance
- Exercise/muscle contraction
- AMP-activated protein kinase (AMPK)

#### **Toshiyasu Sasaoka, MD, PhD**

##### Areas of Interest

- Insulin signaling
- Insulin resistance
- Phosphatase
- Brain metabolism
- Adipokines

#### **Leslie S. Satin, PhD**

##### Areas of Interest

- Insulin secretion
- Pancreatic islets
- Oscillations
- Calcium signaling
- Exocytosis

- Ion channels
- Diabetes

**Gary J. Schwartz, PhD**

Areas of Interest

- Obesity
- Diabetes
- Nervous system
- Gut
- Adipose
- Pancreas
- Liver

**Yuguang Shi, PhD**

Areas of Interest

- Diabetes
- Obesity
- Lipid metabolic enzymes
- Insulin secretion
- Cardiolipin and mitochondrial dysfunction
- Oxidative stress

**David Sigalet, MD, PhD**

Areas of Interest

- Enteric hormones
- Nutrient absorption
- Satiety
- Growth
- Glucagon-like peptides

**Ian A. Simpson, PhD**

Areas of Interest

- Insulin
- Glucose transport and metabolism
- Brain metabolism
- Hypoxia/ischemia
- Microglia

**Maria Sörhede Winzell**

Areas of Interest

- Type 2 diabetes
- Islet hormones
- Insulin secretion
- GLP-1
- High-fat diet

**Gregory R. Steinberg, PhD**

Areas of Interest

- Insulin resistance
- Fatty acid metabolism
- Cytokines
- Lipids
- AMP-activated protein kinase

**Gary Sweeney, PhD**

Areas of Interest

- Adiponectin
- Resistin
- Obesity
- Diabetes
- Heart Failure

**Heinrich Taegtmeyer, MD, PhD**

Areas of Interest

- Energy substrate metabolism
- Metabolic regulation in heart and skeletal muscle
- Diabetes and the heart
- Metabolic signals of cardiac growth
- Heart failure
- Hypertrophy
- Atrophy
- Protein turnover
- Ubiquitin proteasome pathway
- Autophagy

**Matthias Tschöp, MD**

Areas of Interest

- Obesity
- Ghrelin
- (Peptide YY) PYY
- Hypothalamus
- Melanocortin

**Michael J. Toth, PhD**

Areas of Interest

- Protein metabolism
- Single muscle fiber
- Myosin heavy chain
- Cachexia
- Heart failure

**Robert Tsushima, PhD**

#### Areas of Interest

- Beta cell biology
- Alpha cell biology
- Cellular electrophysiology
- Islet cell signaling
- Cardiovascular regulation

#### **Thomas C. Vary, PhD**

##### Areas of interest

- Pyruvate/lactate and branched-chain amino acid metabolism
- Protein synthesis
- Eukaryotic initiation and elongation translational control
- Heart and skeletal muscle metabolism
- Alcoholism

#### **Allen Volchuk, PhD**

##### Areas of Interest

- Pancreatic  $\beta$ -cells
- ER stress
- $\beta$ -cell apoptosis
- Insulin secretion

#### **Qinghua Wang, MD, PhD**

##### Areas of Interest

- Glucagon secretion
- Insulin secretion
- Islet cell crosstalk
- Islet cell growth
- Gene therapy
- Peptide therapy

#### **Rennian Wang, MD, PhD**

##### Areas of Interest

- Beta cell regeneration
- Islet biology
- Diabetes
- Growth factor and signaling pathway
- Human pancreas and disease
- Integrin and extracellular matrix

#### **Matthew J. Watt, PhD**

##### Areas of Interest

- Adipose tissue
- Lipolysis
- Skeletal muscle

- Fatty acid
- Fat metabolism
- Insulin resistance
- Obesity
- Exercise
- Triglyceride
- Ceramide
- Triglyceride lipase
- Endocrine regulation of metabolism

**William Winder, PhD**

Areas of Interest

- AMP-activated protein kinase
- LKB1-STRAD-MO25
- Endurance training
- Muscle fatty acid oxidation
- Metabolism

**Minna Woo, MD, PhD**

Areas of Interest

- Islet biology
- Mouse models/knockout/transgenic
- Insulin signaling
- Apoptosis/caspase biology
- Type 1 diabetes/immunology

**Toru Yamaguchi, MD, PhD**

Areas of Interest

- Calcium-sensing receptor
- Osteoblast
- Osteoporosis
- Bone formation
- Stromal cell

**Kevin E. Yarasheski, PhD**

Areas of Interest

- Mass spectrometry
- HIV/AIDS; human immunodeficiency virus/acquired immunodeficiency syndrome
- Skeletal muscle physiology
- Amino acid/protein metabolism
- HIV-metabolic complications or syndromes

**Jianping Ye, MD**

Areas of Interest

- Signal transduction

- Transcriptional regulation
- Inflammation
- Insulin resistance
- Obesity
- Diabetes

**Yehiel Zick, PhD**

Areas of interest

- Insulin signal transduction
- Receptor Tyr kinases
- Insulin resistance
- Beta cell function

**Antonio Zorzano, PhD**

Areas of Interest

- Mitochondrial function and morphology
- Insulin and exercise signaling
- Muscle metabolism
- Adipocyte biology
- Gene expression and gene function
- Nuclear coregulators
- Insulin resistance