

Services provided by the Hormone Assay & Analytical Services Core

Expand

Radioimmunoassays (RIA)

- ACTH, aldosterone, corticosterone, cortisol, c-peptide, ghrelin, glucagon, growth hormone, insulin, leptin, progesterone, PYY, testosterone, T3 and T4

High Performance Liquid Chromatography (HPLC)

- amino acids, catecholamines (epinephrine & norepinephrine), creatinine, and purine nucleotides

Luminex multiplex assays

- human and mouse adipokine, cytokine/chemokine, metabolic hormones, IGF, immunology/inflammation, and pituitary assays

ELISA

- glucagon

Enzymatic

- glucose

[Click here for more information](#)

Publications / Citations

1. [Insulin Delivery Into the Peripheral Circulation: A Key Contributor to Hypoglycemia in Type 1 Diabetes](#). Gregory JM, Kraft G, Scott MF, Neal DW, Farmer B, Smith MS, Hastings JR, Allen EJ, Donahue EP, Rivera N, Winnick JJ, Edgerton DS, Nishimura E, Fledelius C, Brand CL, Cherrington AD (2015) *Diabetes* **64(10)**: 3439-51
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3. [Tissue inflammation and nitric oxide-mediated alterations in cardiovascular function are major determinants of endotoxin-induced insulin resistance](#). House LM, Morris RT, Barnes TM, Lantier L, Cyphert TJ, McGuinness OP, Otero YF (2015) *Cardiovasc Diabetol* : 56
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7. [Effects of Acute and Antecedent Hypoglycemia on Endothelial Function and Markers of Atherothrombotic Balance in Healthy Humans](#). Joy NG, Tate DB, Younk LM, Davis SN (2015) *Diabetes* **64(7)**: 2571-80
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8. [Human islet preparations distributed for research exhibit a variety of insulin-secretory profiles](#). Kayton NS, Poffenberger G, Henske J, Dai C, Thompson C, Aramandla R, Shostak A, Nicholson W, Brissova M, Bush WS, Powers AC (2015) *Am J Physiol*

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9. [Interleukin-6 amplifies glucagon secretion: coordinated control via the brain and pancreas](#). Barnes TM, Otero YF, Elliott AD, Locke AD, Malabanan CM, Coldren AG, Brissova M, Piston DW, McGuinness OP (2014) *Am J Physiol Endocrinol Metab* **307(10)**: E896-905
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MeSH Terms

Acetaminophen Acyltransferases Adiposity Administration, Intravenous Adolescent Adult Aged Alleles Alprazolam
Amino Acid Motifs Amino Acids Amino Acid Sequence Amino Acid Transport System ASC AMP-Activated Protein Kinases Animals
Antidiuretic Hormone Receptor Antagonists Apolipoprotein B-100 Arabidopsis Proteins Arousal Arterial Pressure Autoantigens
Autonomic Nervous System Base Sequence Basic Helix-Loop-Helix Transcription Factors Bicycling Binding Sites Biocatalysis
Biological Transport Biomarkers Blood Glucose Blood Pressure Body Composition Body Weight Brain C-Peptide Calcium Signaling
Cardiac Output Catalysis Catalytic Domain Cation Transport Proteins Cell Line Cell Line, Tumor Cell Nucleus Cells, Cultured
Cercopithecus aethiops Chemokine CCL2 Child Child Development Disorders, Pervasive Chloramphenicol O-Acetyltransferase Chromatin
Chromosomes Chromosomes, Human, Pair 17 Chronic Disease Cloning, Molecular Consciousness Conserved Sequence COS Cells
Cricetinae Cyclic AMP Cyclic GMP Diabetes Mellitus Diabetes Mellitus, Experimental Diabetes Mellitus, Type 1 Diabetes Mellitus, Type 2
Diet, Fat-Restricted Diet, High-Fat Dietary Carbohydrates Dietary Fats Digestive System Disease Models, Animal DNA
DNA, Complementary DNA-Binding Proteins DNA Mutational Analysis Dogs Dose-Response Relationship, Drug Eating Echocardiography
Electrophoresis, Polyacrylamide Gel Endothelium, Vascular Endothelium-Dependent Relaxing Factors Energy Metabolism
Enhancer Elements, Genetic Enteral Nutrition Enzyme Activators Epidermal Growth Factor Epinephrine Escherichia coli Estradiol
Estrogen Receptor alpha Estrogens Exenatide Exercise Eye Proteins Fasting Fatty Liver Female Fibrinolysis Fructose
G-Protein-Coupled Receptor Kinases GABA-A Receptor Agonists Gastric Emptying Gene Deletion Gene Expression
Gene Expression Regulation Gene Expression Regulation, Enzymologic Genes, Reporter Glucagon Glucagon-Like Peptide-1 Receptor
Glucagon-Secreting Cells Glucokinase Gluconeogenesis Glucose Glucose-6-Phosphatase Glucose-6-Phosphate
Glucose Clamp Technique Glucose Intolerance Glucose Tolerance Test Glyburide Glycerol Glycogen Glycogenolysis
Glycogen Phosphorylase Glycogen Synthase Glycolysis GTP-Binding Protein alpha Subunits, Gq-G11 Heart HeLa Cells Hemodynamics
Hepatocyte Nuclear Factor 1 Hepatocyte Nuclear Factor 3-alpha Hepatocyte Nuclear Factor 3-beta Hepatocytes Heterozygote
Homeodomain Proteins Hormones Human Growth Hormone Humans Hydrocortisone Hyperglycemia Hyperinsulinism Hyperphagia
Hypoglycemia Hypoglycemic Agents Inflammation Inflammation Mediators Infusions, Intravenous Insulin Insulin-Secreting Cells
Insulin Lispro Insulin Receptor Substrate Proteins Insulin Resistance Insulins Insulin Secretion Interleukin-6 Introns Islets of Langerhans
Kinetics Lactic Acid Large Neutral Amino Acid-Transporter 1 Leptin Lipid Metabolism Lipids Lipolysis Lipopolysaccharides Liver
Liver Glycogen Luciferases Maf Transcription Factors, Large Male Methylation Mice Mice, Congenic Mice, Inbred C57BL
Mice, Knockout Mice, Obese Mice, Transgenic Microbiota Microspheres Middle Aged Models, Animal Molecular Sequence Data
Motivation Muscle, Skeletal Muscle Cells Muscles Mutagenesis, Site-Directed Mutation Nitric Oxide Nitric Oxide Synthase Type II
Norepinephrine Obesity Oligonucleotides Organ Size Ovariectomy Overweight Paired Box Transcription Factors Pancreas
Pancreatotomy Pancreatic Polypeptide Parenteral Nutrition, Total PAX6 Transcription Factor Peer Group Peptides

Phosphatidylethanolamines Phosphofructokinase-1 Phosphorylation Pituitary-Adrenal System Plasmids Platelet Activation
Play and Playthings Polyethylene Glycols Polymerase Chain Reaction Portal Vein Postprandial Period PPAR delta Precipitin Tests
Promoter Regions, Genetic Protein Binding Protein Biosynthesis Protein Engineering Protein Interaction Domains and Motifs Proteins
Protein Structure, Tertiary Protein Subunits Pure Autonomic Failure Rats Receptor, Muscarinic M3 Receptors, GABA-A
Receptors, Glucagon Receptors, Vasopressin Recombinant Fusion Proteins Recombinant Proteins Regional Blood Flow Repressor Proteins
Research Ribosomal Protein S6 Kinases, 70-kDa RNA, Messenger Saliva Salts Sequence Alignment Sequence Deletion Serpin E2
Sex Characteristics Sex Factors Signal Transduction Single-Blind Method Social Behavior Somatostatin
Specific Pathogen-Free Organisms Specimen Handling Stress, Physiological Stress, Psychological Subcellular Fractions
Sulfonylurea Compounds Surveys and Questionnaires Sympathomimetics Thrombosis Tissue and Organ Procurement Tissue Distribution
Tissue Donors Trans-Activators Transcription, Genetic Transcriptional Activation Transcription Factors Transfection Triglycerides
Tumor Necrosis Factor-alpha Vascular Endothelial Growth Factor A Vasculitis Venoms Wechsler Scales Weight Gain Young Adult Zinc
Zinc Transporter 8