Hormone Assay Core Services

Services provided by the Hormone Assay & Analytical Services Core

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

   - Primary publication · 26085570 (PubMed) · PMC4587648 (PubMed Central) · Added on 7/15/2015

   - Primary publication · 26015434 (PubMed) · PMC4504937 (PubMed Central) · Added on 7/30/2015

   - Primary publication · 25986700 (PubMed) · PMC4484635 (PubMed Central) · Added on 7/30/2015

   - Primary publication · 25783892 (PubMed) · PMC4587587 (PubMed Central) · Added on 7/24/2015

   - Primary publication · 25910195 (PubMed) · PMC4542446 (PubMed Central) · Added on 7/30/2015

   - Primary publication · 25765720 (PubMed) · PMC4408247 (PubMed Central) · Added on 7/30/2015

   - Primary publication · 25695946 (PubMed) · PMC4477350 (PubMed Central) · Added on 7/30/2015

Portal vein glucose entry triggers a coordinated cellular response that potentiates hepatic glucose uptake and storage in normal liver but not adipose tissue is responsive to the pattern of enteral feeding. Changes in glucose and fat metabolism in response to the administration of a hepatopreferential insulin analog. Hepatic glucose uptake and disposition during short-term high-fat vs. high-fructose feeding.

**References**

1. **Endocrinol Metab** 308(7): E592-602
   - Primary publication · 25648831 (PubMed) · PMC4385877 (PubMed Central) · Added on 7/28/2015
   - Primary publication · 25205821 (PubMed) · PMC4233256 (PubMed Central) · Added on 10/7/2014
   - Primary publication · 24960158 (PubMed) · PMC4109548 (PubMed Central) · Added on 7/21/2014
   - Primary publication · 24947349 (PubMed) · PMC4392933 (PubMed Central) · Added on 1/20/2015
   - Primary publication · 24865981 (PubMed) · PMC4101635 (PubMed Central) · Added on 6/2/2014
   - Primary publication · 24744913 (PubMed) · PMC3966249 (PubMed Central) · Added on 7/21/2014
   - Primary publication · 24423306 (PubMed) · PMC3913799 (PubMed Central) · Added on 7/30/2015
   - Primary publication · 24329926 (PubMed) · PMC4055549 (PubMed Central) · Added on 3/10/2014
   - Primary publication · 24327961 (PubMed) · PMC3854988 (PubMed Central) · Added on 2/27/2014
    - Primary publication · 24148347 (PubMed) · PMC3882379 (PubMed Central) · Added on 6/2/2014
11. **Novel PEGylated basal insulin LY2605541 has a preferential hepatic effect on glucose metabolism.** Moore MC, Smith MS, Sinha VP, Beals JM, Michael MD, Jacober SJ, Cherrington AD (2014) *Diabetes* 63(2): 494-504
    - Primary publication · 24089512 (PubMed) · PMC5361402 (PubMed Central) · Added on 6/2/2014
    - Primary publication · 24037094 (PubMed) · PMC3795838 (PubMed Central) · Added on 7/21/2014
    - Primary publication · 23861369 (PubMed) · PMC3776870 (PubMed Central) · Added on 7/21/2014
    - Primary publication · 23673158 (PubMed) · PMC3725568 (PubMed Central) · Added on 7/21/2014
    - Primary publication · 23274894 (PubMed) · PMC3636628 (PubMed Central) · Added on 7/21/2014
16. Portal vein glucose entry triggers a coordinated cellular response that potentiates hepatic glucose uptake and storage in normal...


MeSH Terms

Acetaminophen  Aclit transf erases  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  Eyes 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-Phosphatase
Glucose Clamp Technique  Glucose Intolerance  Glucose Tolerance Test  Glyburide  Glyc erol  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  Hyperinsul inism  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
Pancreatectomy  Pancreatic Polypeptide  Parenteral Nutrition, Total  PAX6 Transcription Factor  Peer Group  Peptides

Primary publication · 15180990 (PubMed) · Added on 7/30/2015

Primary publication · 14765991 (PubMed) · Added on 7/10/2013

Primary publication · 12370122 (PubMed) · Added on 7/10/2013

J Mol Endocrinol