Key questions defining research program:
1) How does genetic variation contribute to obesity, diabetes, & dyslipidemia?
2) How and where is fat stored and why?
3) How does lipid metabolism influence energy homeostasis and vice versa?
4) How can we prevent and treat obesity and its complications such as diabetes, fatty liver disease, cardiovascular disease, reproductive disease, and cancer?
5) How does the body sense and respond to nutritional and environmental stress?

Key words describing research program:
1) Obesity and its complications – pathophysiology, prevention, and treatment
2) Diabetes
3) Dyslipidemia
4) Adipose tissue
5) Glucose and fat metabolism

Titles for shovel-ready research projects:
1) Understanding a novel human obesity-risk variant and its role in obesity and diabetes pathogenesis
2) Understanding how tissue-specific fat metabolism contributes to the metabolic syndrome, lipodystrophy, and adipose tissue function
3) Improving the prevention and treatment of human with severe hypertriglyceridemia who are at risk for acute/recurrent pancreatitis
4) Understanding the role of a novel human obesity-risk variant in energy homeostasis, adipose tissue biology, and/or behavior
5) Using clinical informatics to improve prevention and treatment of obesity, diabetes, and dyslipidemia

Data sources for shovel-ready research projects
1) Pubmed, papers published by Kershaw and colleagues
2) Existing Human Data sets with comprehensive metabolic phenotyping of human subjects
3) Cell, animal tissue, and human tissue and blood repositories
4) Clinical informatics databases