

Biomarker assays are an important part of KCAS' full service assay capabilities. Our dedicated and highly experienced scientists use state-of-the-art technologies for biomarker analysis to support preclinical, clinical and exploratory projects where fast data turn-around may be of essence.

### Fit-for-Purpose Applications

- Need-based, fit-for-purpose qualification or validation
- Consultative in determining your needs
- Experience in both method development and kit adaption
- Single-plex and multiplex analysis
- Measurements in both animal and human matrices
- Nominal or no-cost qualification of most multiplex panels

### Equipment



- Genalyte Maverick™ Detec on System (pictured above)
- MesoScale Discovery Sector Imager 6000 > ELISA and RIA instruments
- Precellys 24 homogenizer

### Biomarker Panels

#### Bone Metabolism I Human

- Vitamin D3, PTH
- Tartrate-resistant acid phosphate (TRACP-5b)
- Alkaline phosphatase (ALP), Scleros n, Osteoprotegrin (multiplex panel)
- Osteocalcin, Osteopontin, Osteonectin (multiplex panel)
- N-terminal propeptides of procollagen type 1 (P1NP), C-telopeptide of type 1 collagen (CTX)

#### Renal Injury

- Neutrophil gelatinase-associated lipocalin (NGAL)
- Rat kidney injury molecule (Kim-1)/T-cell immunoglobulin (Tim-1)

#### Metabolic Disorders

- Insulin, Glucagon
- Calcitonin, Calcitonin Gene Related Peptide (CGRP), Substance-P

Pro-Inflammation Cytokine Panel  
> TNF  $\alpha$ , IFN  $\alpha$ , IL-1 $\alpha$ , IL-6

### Customized Solutions

- Long-term sample storage
- Global sample kit production and shipping expertise
- Custom reporting available

### Facility

- 33,000 sq ft laboratory centrally located in the Greater Kansas City area