



BIOMARKER ANALYSIS

QUANTITATIVE ANALYSIS WHICH CAN HELP TO DEFINE MECHANISM OF ACTION FOR TARGETED THERAPEUTICS

INTEREST

- Quantitative analysis of specific biomarkers can be useful establishing an etiologic mechanism in generating a definitive diagnosis and in predicting a treatment response.
- Recently biomarker analysis has become critical to explore drug safety and efficacy.
- UROsphere can assess a variety of biomarkers in different preclinical models.

TYPE OF ASSAYS

- Enzymatic assays: colorimetry, fluorescent
- Immunochemistry assays: EIA and ELISA tests

SOURCES

- Plasma
- Urine
- Tissue

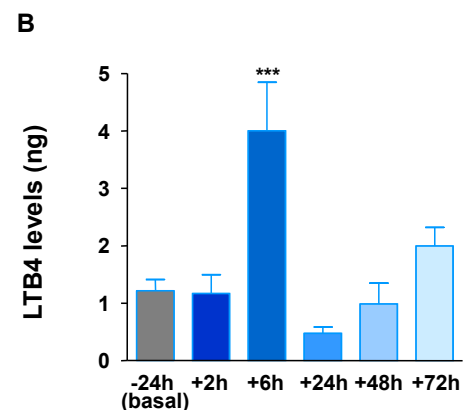
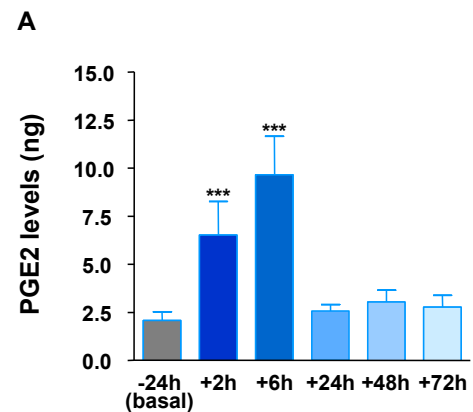
BIOMARKERS EVALUATED

- Neuroimmune biomarkers: NGF, SP, CGRP
- Inflammatory biomarkers: arachidonic acid metabolites (PGE2, LTB4, TXB2) (in collaboration with Ambiotis)
- Standard biomarkers: myeloperoxidase activity, creatinine, total protein

UROsphere can also evaluate the feasibility of additional biomarkers to meet clients' needs.

SCIENTIFIC PUBLICATIONS

- Lluell P *et al*, ICS Annual meeting, San Francisco, USA, 2009



(A) PGE2 and (B) LTB4 levels in urine collected from rats after acute cystitis induced by cyclophosphamide.

*** $p < 0.001$ versus basal (one way ANOVA followed by Bonferroni/Dunnnett test).