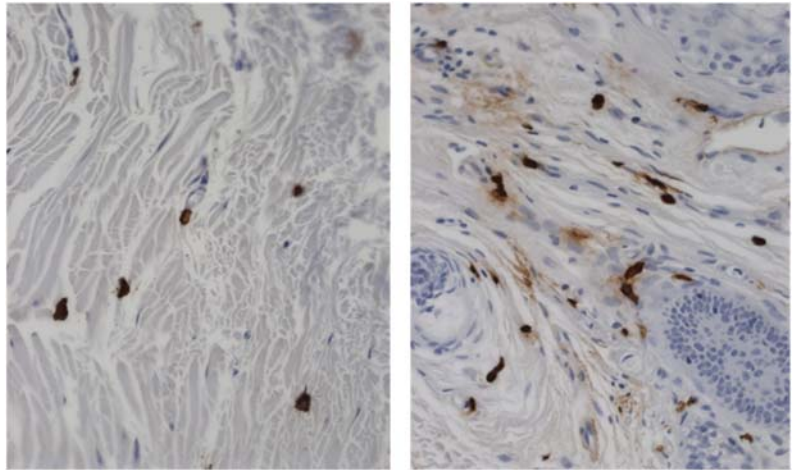


HUMAN AND ANIMAL MODELS FOR MAST CELL BIOLOGY

HUMAN AND RODENT MAST CELL SYSTEMS

- Human skin organ culture to assess mast cell numbers and degranulation
- *In vitro* challenge of rat peritoneal mast cells for histamine and/or IL-17 release
- Measurement of histamine, chymase, tryptase, and IL-17 release
- Histology and cytology using immunohistochemistry and ultrastructure methods
- Development of client-specific applications for drug screening



*Mast Cells in Human Skin Culture:
Control (left) and Degranulated (right)*

PHARMACEUTICAL APPLICATIONS

- Screening of compounds for immediate hypersensitivity potential
- Supplementing of internal testing resources
- Mechanistic determinations of drug efficacy or toxicity
- Suppression of mast cell activation
- Comparative testing of preclinical and clinical drug responses