

Researcher Information Form

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Cancer Biology

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Research Interest (1-2 Sentences):

The overall goals of the Guan laboratory is to understand the fundamental principles of cell signaling in the regulation of basic cellular functions in normal cell and developmental processes and to determine how the disruption of normal signaling pathways lead to diseases such as cancer.

Unique Resources/Techniques:

Mouse models with conditional KO of FIP200 and other autophagy genes as well as FIP200 mutant knockin mice specifically blocking its autophagy function in different breast cancer models; similar cKO and cKI model for FAK deletion or its kinase-defective mutation.

Extensive experience of mouse models of breast cancer, as well as other molecular and cell biology approaches

Representative Publications (5 Maximum, May use Hyperlink):

See <https://med.uc.edu/cancerbiology/labs/guan-laboratory/publications>