

# TAIMS features

## AIM STATISTICS WORKSHOP 1

*“Well-Level Data vs Plate-Level Data: What’s Your Preference in Analysis?”*



AUTOPHAGY, INFLAMMATION & METABOLISM  
Center of Biomedical Research Excellence

CENTER OF BIOMEDICAL RESEARCH EXCELLENCE  
AUTOPHAGY, INFLAMMATION & METABOLISM

Presentation by: Yiliang Zhu Ph.D.

Professor & Interim Chief, Div of Epidemiology, Biostatistics, and  
Preventive Medicine, Internal Medicine

AIM Center

Dr. Zhu will use data from Dr. Deretic’s lab to illustrate the design and analysis of experiments that generate spatially clustered data.

He will discuss the implications of data clustering for study design (e.g. statistical power) and analysis.

A Q&A session will follow to engage the audience on related issues.

### Learning Objectives:

- Recognizing and leveraging clustered data structure (e.g. wells vs plates) in experimental design and analysis
- Understanding difference in analyzing independent data (e.g. plate-level) vs dependent (e.g. well-level data)
- Appreciating the rationale and practice of statistical power including post-hoc power analysis

Date: May 30<sup>th</sup>, 2023

Time: 3:00PM

Via Zoom: <https://hsc-unm.zoom.us/j/99812815360>