

## Molecular Devices

Thursday, March 27, 2025  
13:30 - 14:30, Lecture Hall 105

### **Sensitive and Reliable: How the Spectral Optimization Wizard and AutoPMT can help you get the most out of your fluorescence experiments**

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Optimizing fluorescence measurements can be a daunting task, often requiring hours or even days to determine the best excitation and emission wavelength pairs and the optimal gain setting for your fluorescence detector. In this workshop, we will introduce you to two powerful tools that can transform your fluorescence research: the Spectral Optimization Wizard (SOW) and AutoPMT.

The Spectral Optimization Wizard (SOW) saves you valuable time by automatically finding the optimal wavelengths with the highest signal-to-noise ratio, scanning every possible excitation and emission wavelength combination. This ensures that you achieve the best results for your specific setup and chemical environment.

In addition to finding the right wavelength pair, it is crucial to set the correct gain for your photomultiplier tube (PMT) or detector. AutoPMT addresses this challenge by selecting the appropriate gain setting for each well on your plate, allowing you to measure the lowest and highest possible concentrations in the same run. This eliminates the need for diluting samples or repeatedly reading your plate, ultimately enhancing the flexibility and reliability of your assays.

Join us to discover how these innovative tools can help you maximize the dynamic range of your fluorescence measurements, ensuring sensitive and reliable results every time.

Don't miss this opportunity to learn how to get the most out of your fluorescence experiments and take your research to the next level.

