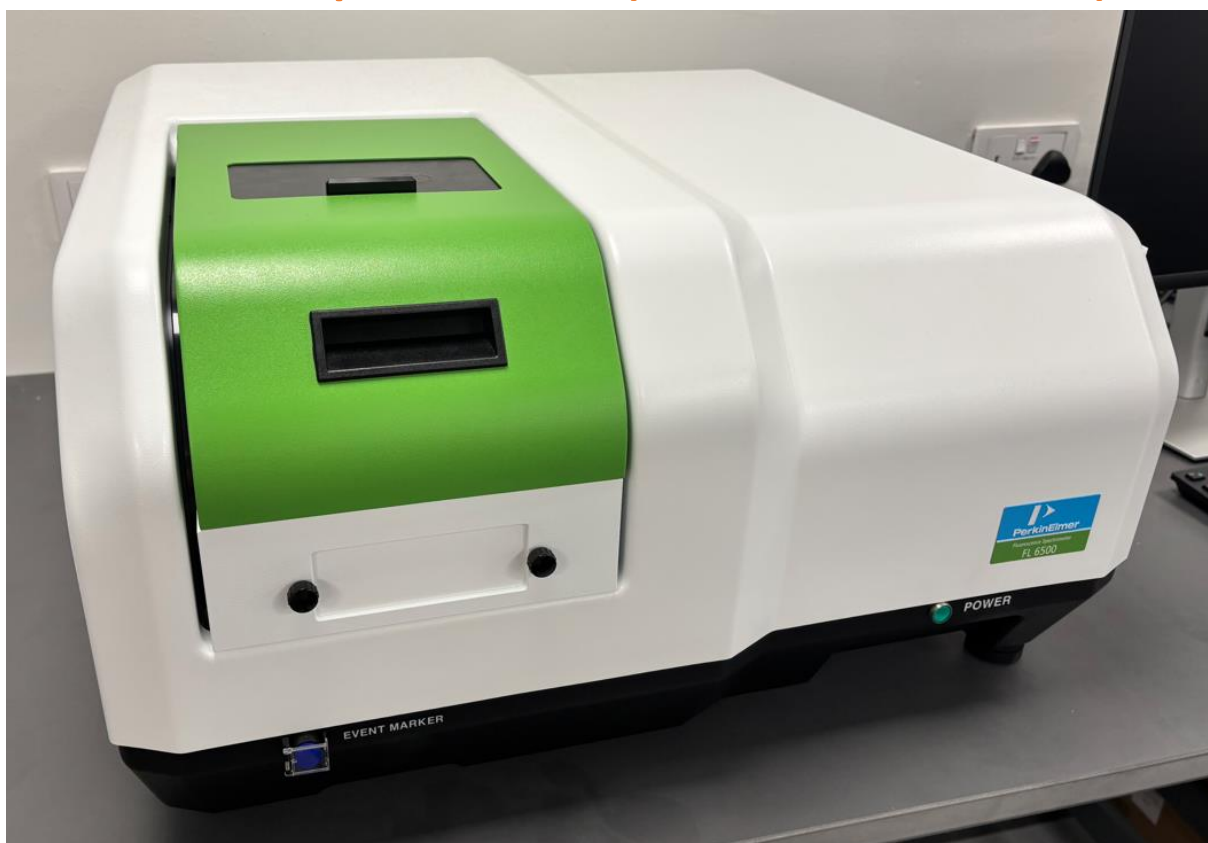


Fluorescence spectrometer (PerkinElmer FL-6500)



A fluorescence spectrometer (alternatively known as 'fluorimeter' or 'fluorescence spectrophotometer') is an analytical instrument that measures light emitted by a sample after excitation by a specific wavelength of light.

Many molecules absorb photons and rapidly re-emit part of that energy as longer-wavelength fluorescent emission. A fluorescence spectrometer quantifies this emission to provide information about concentration, environment, molecular interactions, etc.

Overview of our PerkinElmer FL-6500 fluorescence spectrometer:

- **Measurement types:** Excitation spectrum, Emission spectrum
- **Sample accessories:** single cell holder (for liquid samples), variable angle solid sample holder (for thin or slightly thick solid sample with flat faces), powder cell (for powder samples).
- **Scan ranges:** Excitation — 190 to 900 nm; Emission — 190 to 900 nm.
- **Light source:** Xenon flash lamp (with adjustable power and frequency)
- **Excitation filters:** 290 nm, 370 nm, 530 nm
- **Emission filters:** 320 nm, 430 nm, 515 nm, 590 nm, 610 nm, 665 nm