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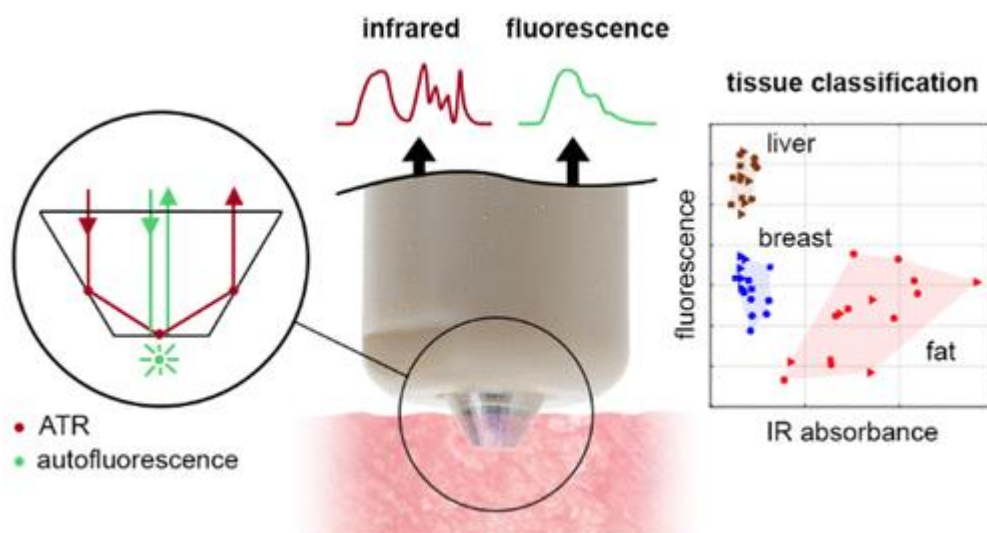
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## Fiber Probe for Simultaneous Mid-Infrared and Fluorescence Spectroscopic Analysis

This multispectral fiber optic probe enables simultaneous analysis of various liquid and solid samples using attenuated total reflection mid-infrared spectroscopy and fluorimetry.

The probe design was optimized using ray-tracing simulation of the light propagation. Technical evaluation of the probe has confirmed its output signal quality is comparable to that of respective probes for single methods. The capability of the probe to deliver complementary chemical information from the same measurement point has been illustrated using model samples of biological tissue. Qualitative analysis of the biological tissue is one of the most important applications of the developed multispectral probe.



**IRis-F1 spectrometer coupled with 10-meter-long ATR fiber probe**