

BioPhotonics

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WEBINARS



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Photonics Systems for Human Health Care and Biomedical Research

Tuesday, July 22, 2025 1:00 PM - 2:00 PM EDT

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Advanced photonics technologies that allow stable, intimate integration with living organisms will accelerate progress in biomedical research. These systems will also serve as the foundations for new approaches for monitoring and treating diseases. This presentation describes the core concepts in optics, optical materials, devices, and systems for two classes of such technologies: 1) colorimetric, wearable microfluidic systems for capture, storage, and quantitative biomarker analysis of eccrine sweat, and 2) cellular-scale optoelectronic probes for neuroscience studies in small animal models.



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