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Detecting cholesterol changes in lipid bilayers

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Detecting cholesterol changes in lipid bilayers.

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Abstract

Developing controlled methods for cholesterol manipulation in biological and artificial systems is an exciting goal and attracts the attention of bio-scientists. A technique is needed sensitive to cholesterol content and with good spatial resolution to look for changes in membrane cholesterol content in intact cells. This article describes the detection of cholesterol changes in lipid bilayers by laurdan generalized polarization and two-photon excitation fluorescence microscopy.