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Imaging live cells using highly multiplexed nanomarkers.

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Current cellular imaging technology often rely on marking specific cellular components with fluorescent dyes. The broad emission spectrum of these fluorophores limits however the number of markers which can be used simultaneously in a single image. To overcome this limitation, several researchers have developed nanomarkers with narrow emission bands. When used in combination with hyperspectral fluorescence microscopes, one can distinguish and analyse tens of different cellular components, opening the door to new research, and above all, to faster medical diagnostics. Several imaging modalities, with their corresponding nanomarkers, are presented with an overview of the early results.

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