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On the Cover: The feasibility of a potentially high-throughput methodology is demonstrated, combining automated *in situ* hybridization with quantum dot-labelled oligonucleotide probes followed by spectral imaging for the detection and subsequent deconvolution of multiple signals. This method is semi-automated and quantitative, and can be applied to formalin-fixed paraffin-embedded tissues. See page 20 and accompanying commentary on page 7.

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