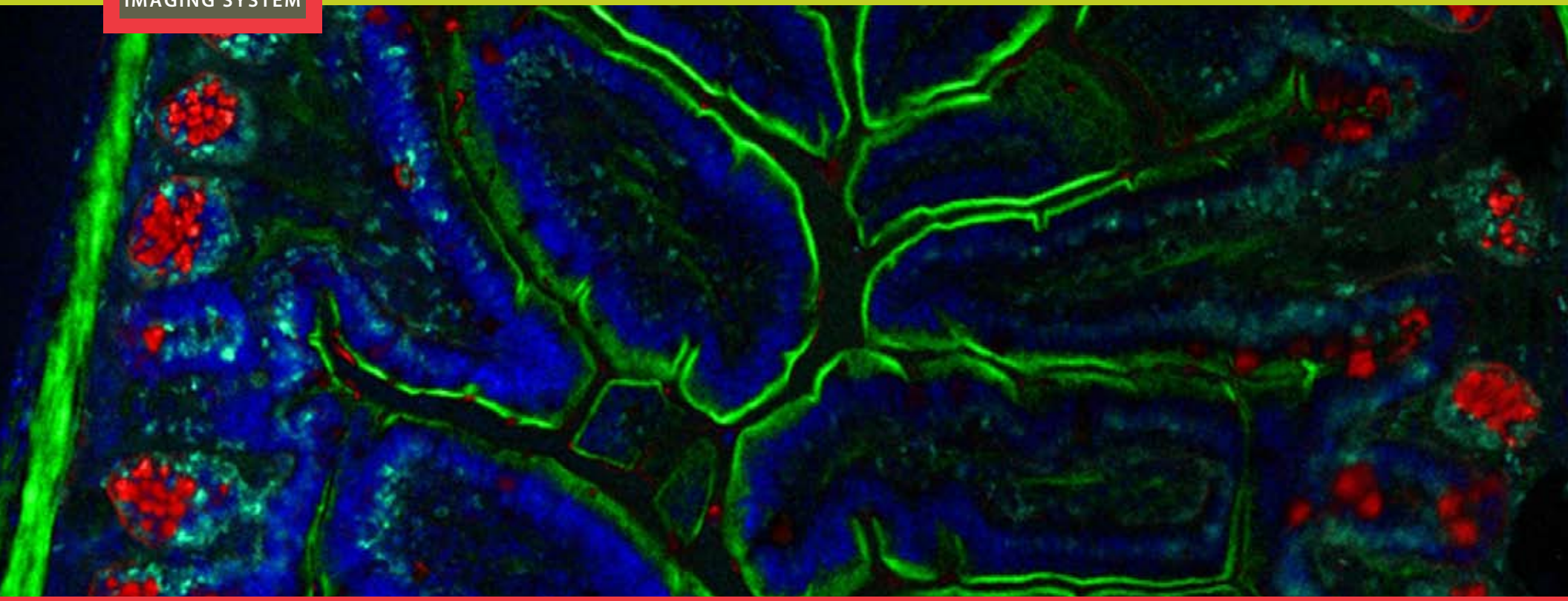
NUANCE

FLUORESCENCE

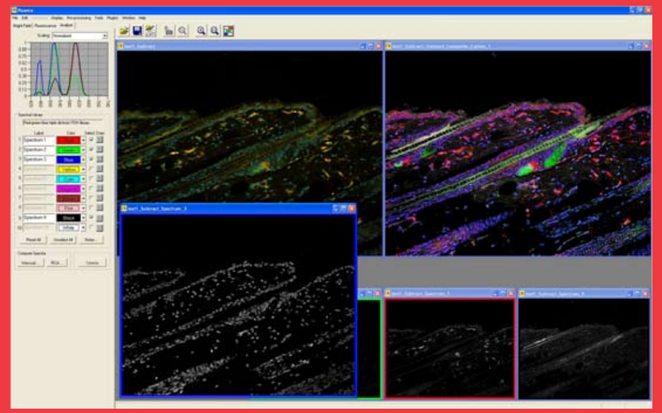
IMAGING SYSTEM



There's only one thing between your microscope and these results.

Nuance. The multispectral imaging system that eliminates auto-fluorescence and enables multiplexing.

Adding Nuance to your lab is a simple, cost-effective means of upgrading your microscope to be a multi-spectral imaging system. MSI can eliminate a problem you may not know you have —autofluorescence — while providing better, more accurate, and quantitative multiplexing. Nuance increases the signal-to-noise of your fluorophores, down to 1% of a weak marker in the background of another co-localized marker and allows you to resolve up to ten markers simultaneously.



Photography Credits
1. Front Cover — Mouse bowel section stained with 3 Alexa Fluor® dyes and Sytox Blue® courtesy of Invitrogen - Molecular Probes
2. Before /After Shot for Under Inside-Right Panel, Above Spec Chart — Tonsil section stained for kappa (605 nm QDot™) and lambda (655 nm QDot™) using QDMap™ reagents courtesy of Ventana Medical Systems
3. Back Cover — CD20, CD3 and cytokeratin stained tonsil sample image courtesy of Stephen Finn, Joshua Rose and Massimo Loda, Dana Farber Cancer Institute.

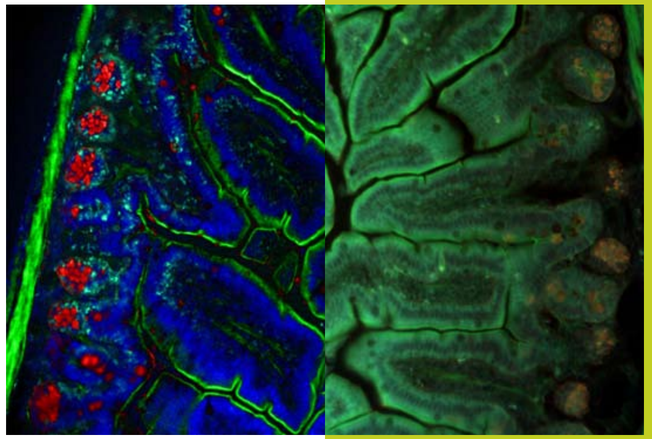
Yes, it's amazing. And yes, you can do it.

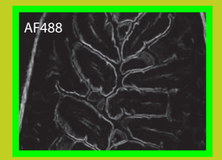
Even if you work on solid tissue, where autofluorescence problems are at their worst, Nuance can sort the signal from noise spectrally and enable you to see just what you need to see in your experiment. What's more, Nuance also sorts data spatially, enabling you to study up to ten fluorophores in a tissue section simultaneously, whether they're co-localized or not. There isn't a more robust solution to your image-based data capture needs available today.

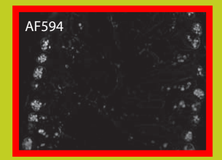
Eliminate autofluorescence in your results.

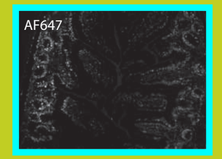
Nuance enables you to image multiple fluorophores, even in formalin-fixed, paraffin-embedded samples, because of its ability to eliminate autofluorescence. Even frozen tissue sections can have significant autofluorescence. Why settle? The Nuance solution can be yours.

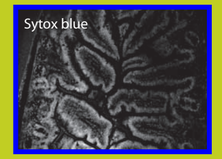
before











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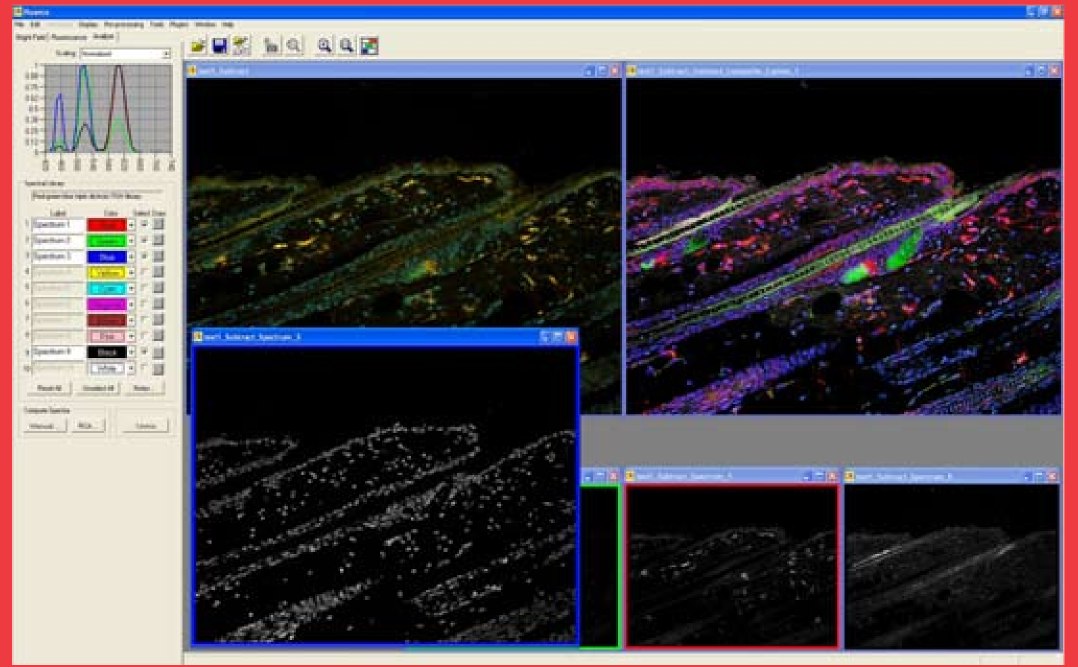

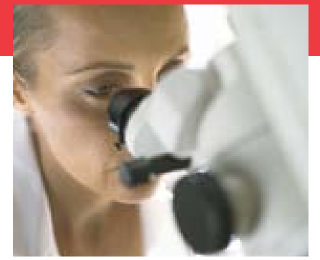

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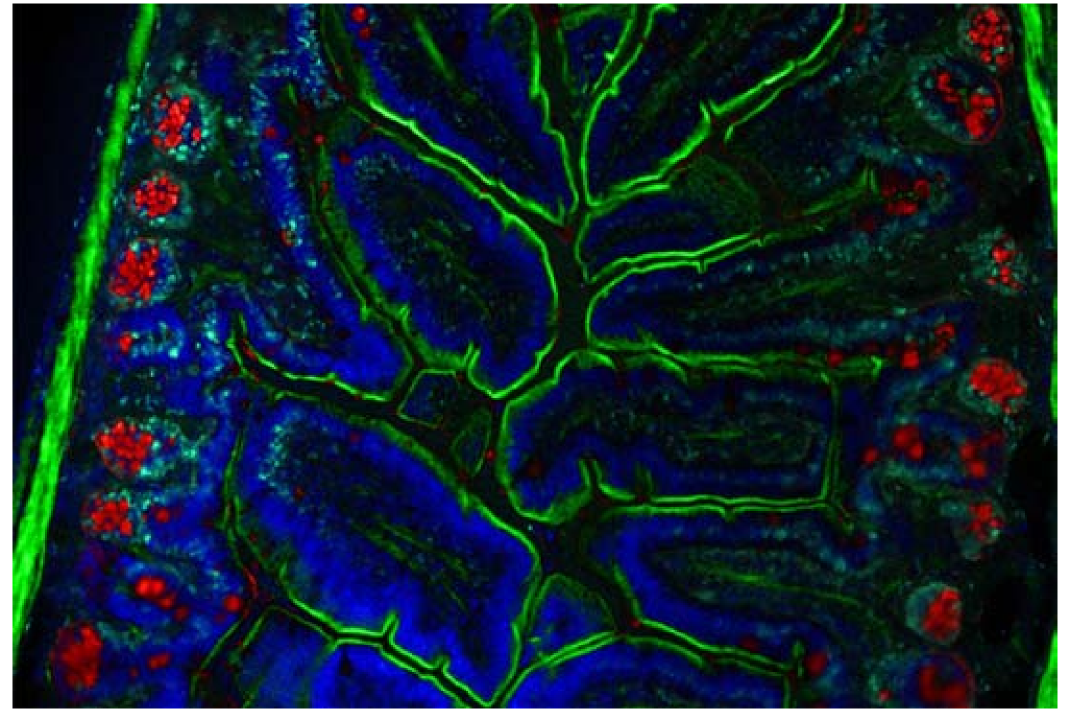


By eliminating auto-fluorescence and unmixing the fluorophores in this mouse bowel section, Nuance provides a high-contrast image showing a composite of four unmixed components.

Nuance outperforms other systems.

Even if your imaging facility has multiple fluorescence microscopy systems, including laser scanning systems, none of them delivers the performance of Nuance when it comes to tissue fluorescence. With its ease-of-use and lower price-point, you'll quickly get a return on your Nuance investment. Nuance will be a valuable addition to your lab.

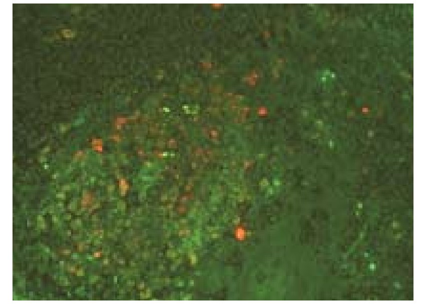
FPO

Utilize our breakthrough to enable yours.

Breakthrough results in your lab require microscopy systems designed to facilitate your experiments, improve your image quality, and significantly advance your research. Your lab requires Nuance.

Contact us at 1-800-383-7924 or at www.cri-inc.com/nuance to learn more about Nuance or to schedule a demonstration of this breakthrough system.

before



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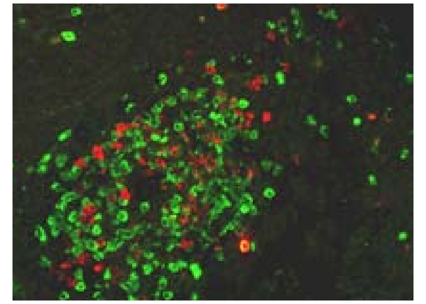


On the left, a standard color fluorescence image of a tonsil section stained for kappa and lambda. On the right, an unmixed Nuance image of that tissue with the autofluorescence removed.

Nuance Fluorescence

	Nuance VIS-FL	Nuance VIS-Flex	Nuance GNIR	Nuance GNIR-Flex
Spectral range	420-720 nm	420-720 nm	500-950 nm	500-950 nm
CCD	Sony ICX285	Sony ICX285	Sony ICX285	Sony ICX285
Bandwidth*	30 nm	15 nm or 30 nm	60 nm	30 nm or 60 nm
Mount required	1x C-mount	1x C-mount	1x C-mount	1x C-mount

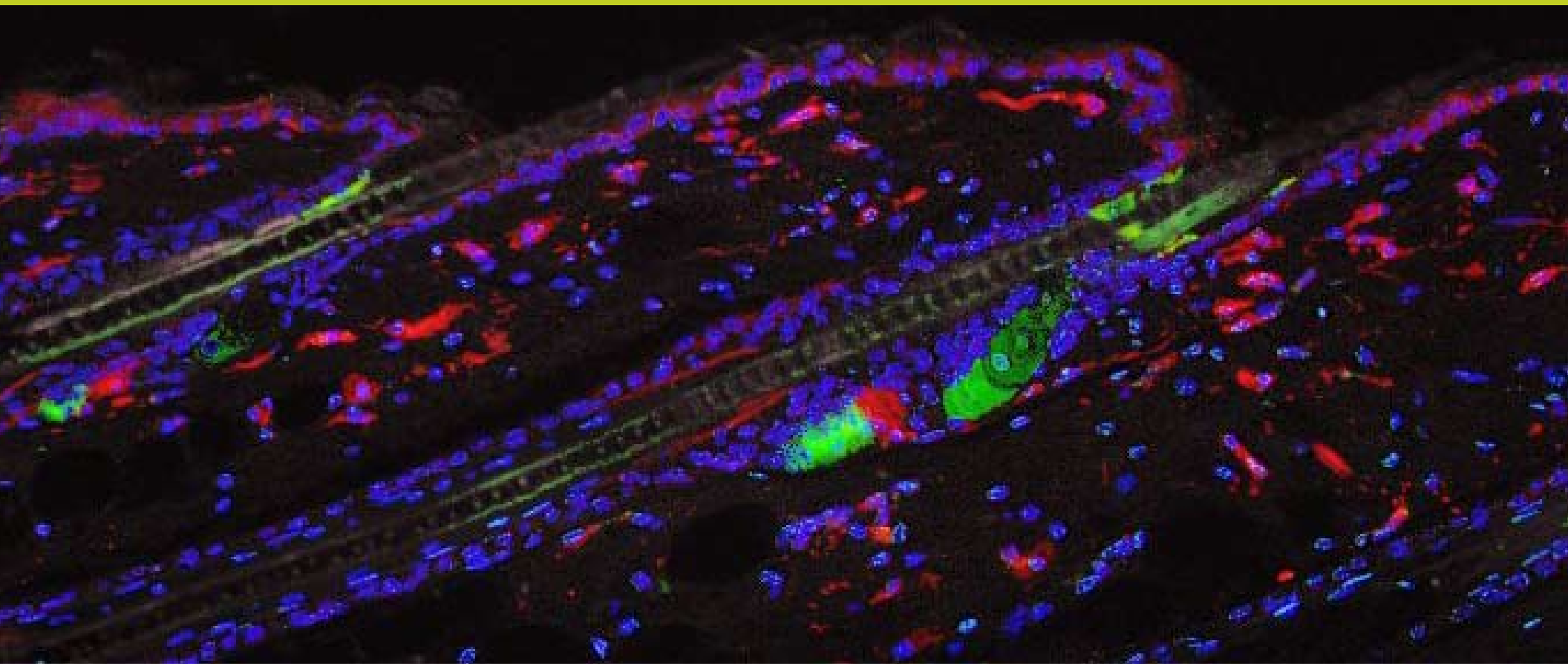
* at 550 nm for VIS models, at 700 nm for GNIR models

"The technology provided by the Nuance system has enabled us to undertake several projects using multiplexed in situ hybridisation from which fluorescent signatures can be unmixed to clearly reveal multiple signals simultaneously."

Dr. Richard Byers,
University of Manchester

About CRi

Cambridge Research & Instrumentation, Inc (CRi) is a Boston-based biomedical imaging company providing innovative optical imaging solutions to our customers for more than 20 years. Our multidisciplinary team is dedicated to working with our academic and commercial customers to provide high-value solutions. We provide comprehensive imaging and analysis solutions that enable the user to investigate and characterize biological phenotypes while preserving spatial context. With over 80 patents pending and issued, CRi's solution platforms encompass sub-cellular, cellular, and whole animal applications. Our innovations are being utilized around the world to enable new breakthroughs in research, health and medicine.



Your local CRi agent or distributor is:

Cambridge Research & Instrumentation, Inc.
CRi 35-B Cabot Road
Woburn, MA 01801 USA

E-mail: sales@cri-inc.com
Toll-Free (USA): 1-800-383-7924
Direct (Worldwide): +1-781-935-9099