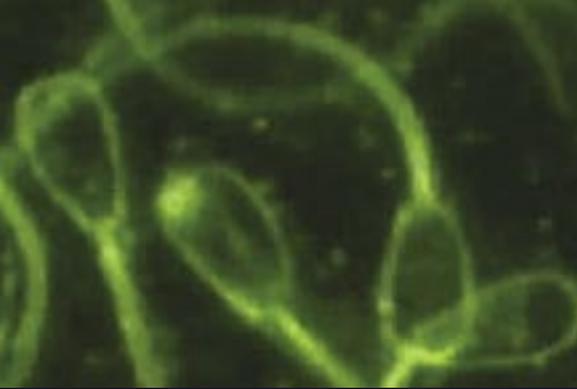


**You'll see...**

Things you've never seen before

**CytoViva™ 150**



### Increased Vitality

See the movement. Watch the interactions key to identifying new mechanisms.

1

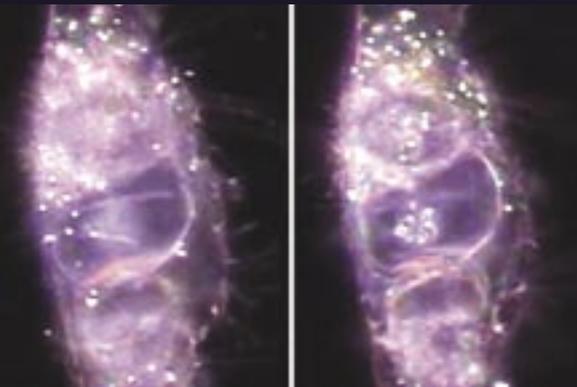
## See... the Difference



### Increased Resolution

See detail you've never seen before in a light microscope: Resolve <150nm. Detect below 50nm.

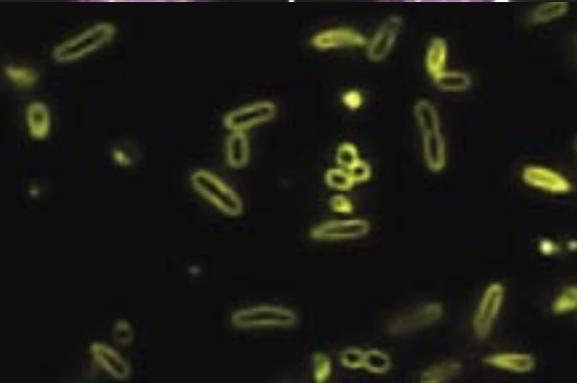
2



### Delicate Optical Sectioning

See the area plane by plane. Focus on the exact location which best illustrates structures and processes critical to your research.

3



### Dramatic Contrast

See clean, velvety, dark backgrounds; crisp edge information. Ideal for automated image analysis.

4

## See... Just how easy Ultra Resolution Imaging™ can be

**Load and lock.** Just install the proprietary condenser/adapter system (a) and use the condenser centration screws to align. CytoViva fits most conventional research and lab stands.

### Optimize.

**Adjust** the objective iris (c) to maximize resolution and generate a rich, velvety, black background.

**Fine tune** condenser height (d) to accommodate samples from conventional slides to cultures 300 microns thick.

**Set** the illuminator iris (e) for the best match between feature and background intensity.





## See... Biology live and in action

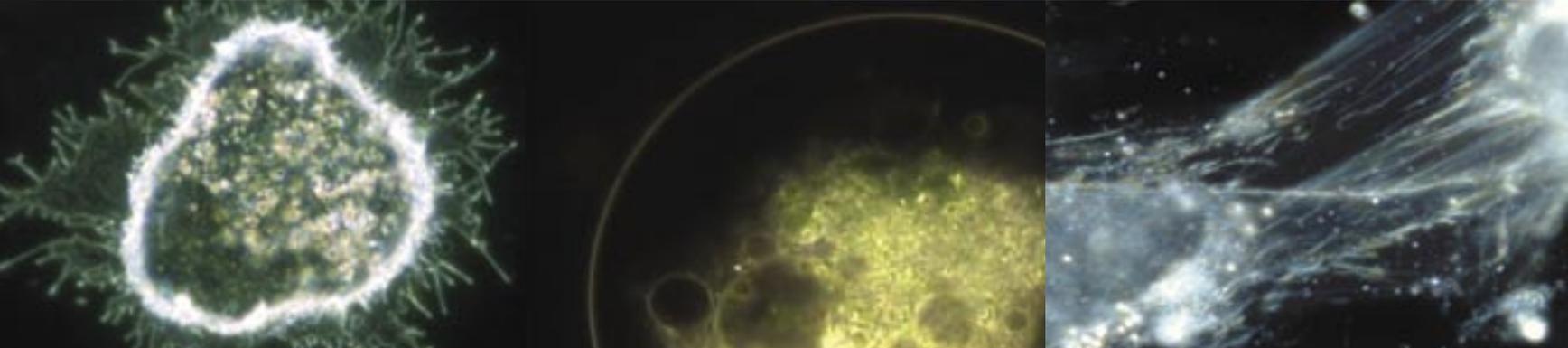
With CytoViva™ 150 you can see things you've never seen before. Once-invisible cell structures. Infinitesimal details. And—most importantly—how things happen, between and within living cells. CytoViva is a new light microscopy technology that lets you study live organisms dynamically, in their own environment.

**Define** live cell mechanisms and processes

**Investigate** how pharmaceuticals destroy tumors and diseased cells

**Visualize** how bacteria and parasites invade and infect cells

**Characterize** attacking organisms in real-time



### What you haven't seen may matter most

CytoViva generates rich contrast as well as high resolution ... less than 150nm ... **at a price you can afford.** This unique combination shatters current limits of traditional microscopy—in a cost-effective, real-time imaging system that **shows you what you've been missing.**

CytoViva couples proprietary condenser optics and a light-guide illuminator with a high NA objective. *Voila!* High resolution images full of **vitality that surpasses** other live-cell imaging techniques that cost five times more.

**Perfect for today's leading-edge live cell research,** CytoViva lets you watch your samples as they respond, *in situ.* **Accurately assess interactions and mechanisms. Get results faster.**

“It’s like not knowing you need glasses. You don’t know what you can’t see. Then someone hands you a pair—and the world is clear, with amazing detail.”

—J. Paul Robinson, PhD, Director of Cytometry Laboratory, Professor of Basic Medical Sciences and Biomedical Engineering, Purdue University

## See... How CytoViva can advance your research

For researchers struggling to define processes within and between living cells, especially those processes involving extremely small entities, CytoViva’s Ultra Resolution Imaging is the easy-to-use solution for collecting real-time information. CytoViva has already had an impact on how biologists explain interactions between cells\*:

**Spirochaete** research presented new explanations for how these parasites invade human cells

**Neutrophil** imaging revealed how these white blood cells heal damaged red blood cells

**Apoptosis** studies elucidated multiple new mechanisms for cell death

\*Articles available at [www.CytoViva.com](http://www.CytoViva.com)



8

9

10

## See... How you can save

Why pay more? CytoViva generates resolution below 150nm, detection below 50nm—both **with amazing vitality**—for a fraction of the cost of similar technology. It installs quickly on leading lab and research-level microscopes and works with conventional cameras, slides and growth chambers.

And, there’s no need for elaborate specimen preparation. No freezing, dehydrating, fixing or staining. Save time and money. Preserve biological function and viability, even for delicate proteins.

## See... the Benefits

- High NA objective with iris optimizes resolution
- Small footprint conserves critical lab space
- Bright, cool illumination minimizes thermal impact and preserves biological activity
- Works with a variety of cameras, maximizing resources
- A great teaching tool! CytoViva can be used on multiple stands in your lab or department

# CytoViva™ 150

Ultra Resolution Imaging™  
for live cell investigations



Pink lines indicate approximation of business  
card slits and DO NOT PRINT; this text DOES  
NOT PRINT

1. Bovine Sperm, 2. High Resolution Optical Test Standard, 3. Cultured Feline Astrocyte/2 Optical Sections\*\*, 4. *Bacillus Subtilis*, 5. Rat Glioma\*\*, 6. Rat Glioma - Distressed\*\*, 7. Feline Mesenchymal Stem Cell\*\*, 8. Human Blood With Neutrophil, 9. *Pleurosigma Angulatum*, 10. Poinsettia Pollen, 11. Rat Astrocyte\*\*, 12. Rat Fibroblast - Distressed\*\*

\*\* Samples courtesy of Scott-Ritchey Research Center, Auburn University

# Seeing is believing

Tour [www.CytoViva.com](http://www.CytoViva.com) and see the evidence for yourself.

“Looking through CytoViva, you are face to face with living biology. You see into the world of cell biology that you didn’t know existed. You are visualizing the future of underlying biological processes as it merges with the present.”

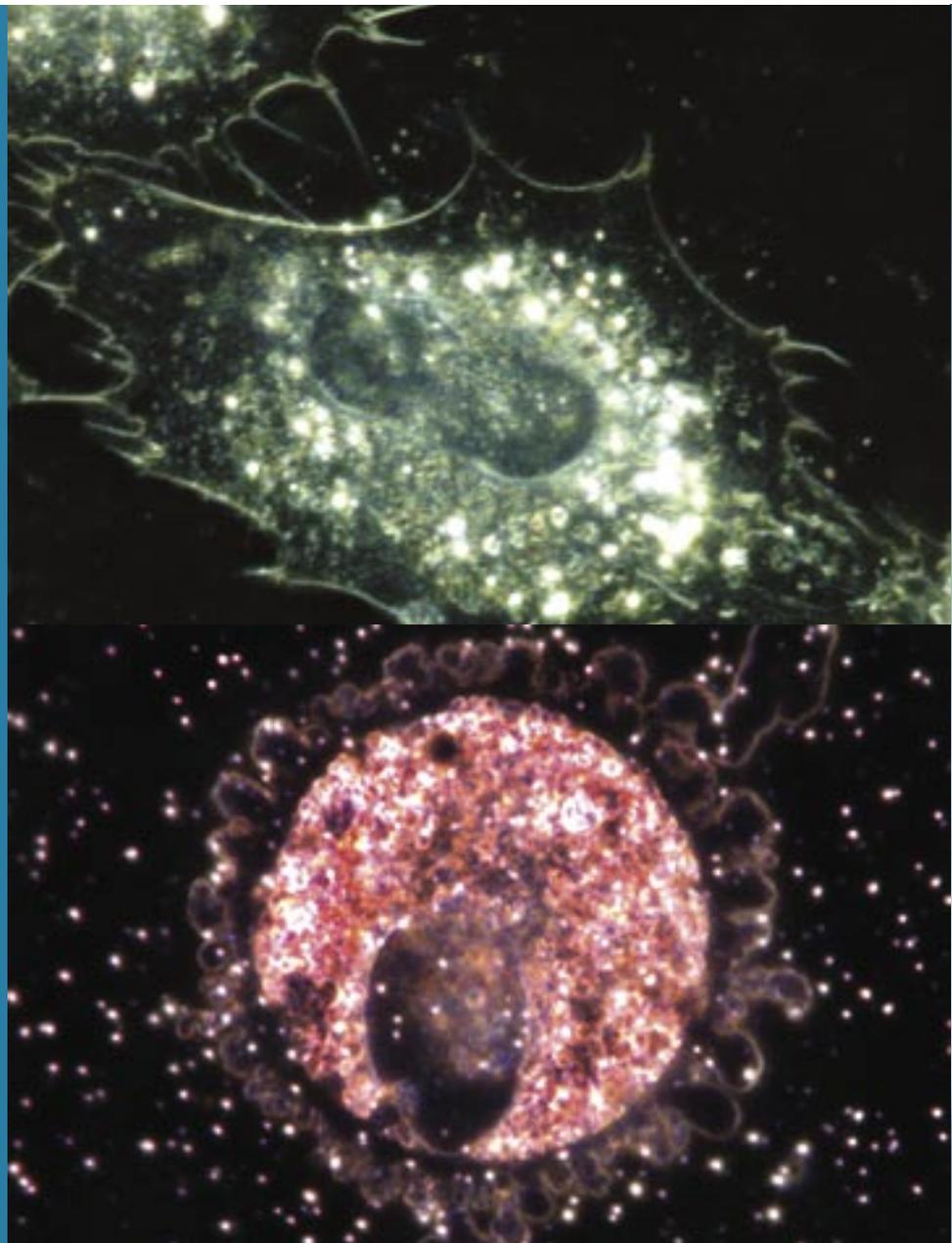
—John A. Smith, MD, PhD, MMM,  
Divisional Director,  
Department of Pathology,  
University of Alabama at Birmingham

11

## About us:

*CytoViva was invented by Dr. Vitaly Vodyanoy of Auburn University and is manufactured and sold by Aetos Technologies, Inc., a unique technology development company that bridges the gap between university research and commercialization.*

12



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