

## **Users of Imagine Optic's AOKit™ – bio report impressive results using adaptive optics to enhance bioimaging**

*World renowned researchers present their first results obtained using the AOKit –bio from Imagine Optic to improve Optical Coherence Tomography (OCT) and 3D wide-field microscopy*

San Jose, CA and Orsay, France January 21, 2008 – Imagine Optic, Europe's leading provider of wavefront analysis and adaptive optics technologies, will proudly exhibit results obtained by their AOKit – bio customers at Photonics West in San Jose. Over the course of 2007, the AOKit – bio, officially launched at Optics East last fall, was used by some of the world's most prestigious research to achieve dramatic results in the field of bioimaging. Current customers and applications include:

- The University of California at San Francisco's Sedat Lab – three-dimensional wide-field microscopy for imaging chromosome structure
- The Massachusetts Institute of Technology – multiphoton and confocal microscopy for research in neuroscience and skin disease
- The Howard Hughes Medical Institute – multiphoton microscopy for research in neurobiology

The need for technologies that enable researchers to overcome the limitations imposed on many bioimaging techniques grow as the frontiers of science move inward to the infinitely small. When asked why adaptive optics was the key to advancing rapidly in deep tissue microscopy, Peter Kner, Ph.D. and Optical Physicist at the Sedat Lab at UCSF responded "Resolution and signal intensity degrade rapidly as you image deeper into biological samples because of optical aberrations. Adaptive optics is the way to correct these aberrations and restore image quality deep in live tissue."

Claude Boccara from the Ecole Supérieure de Physique de Chimie Industrielles (ESPCI) commented "Adaptive optics provides the key for unlocking the mysteries behind cellular pathologies including Alzheimer's disease or muscular sclerosis (MS) as well as into the way that cells metabolize and react to medications. The ability to image deep inside the cell and at this level of detail allows research to advance at a faster pace which, we hope, will allow us to bring new detection techniques and treatments to market sooner."

In the future, Imagine Optic will continue to work closely with its customers in this domain to provide them with the tools they need to continue this important work that may one day impact the lives of people around the world. The company is currently engaged in several advanced research projects that employ adaptive optics in bioimaging including the MICADO (MICROscopy with Adaptive Optics) and STELUM (Ultimate Multiphoton Microscopy).

The company will be exhibiting this week on stand 715 at Photonics West in San Jose, the world's premier showcase for optics and photonics products. For more information, please visit [www.imagine-optic.com](http://www.imagine-optic.com).

### About Imagine Optic

Founded in Orsay, France in 1996, the company is Europe's leading provider of Shack-Hartmann wavefront sensing technologies for adaptive optics, quality control and optical measurement. In 2005, Imagine Optic introduced the world's first X-EUV wavefront sensor to respond to customer needs in this synchrotron metrology and nanolithography and, in 2007, the company released a completely renewed version of its award winning HASO™ sensor line as well as adaptive optics and companion software packages. It continues to be a leader in research and development with projects currently underway in the domains of adaptive optics for high-power lasers and bioimaging as well as free space communications.

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Imagine Optics' clients are among the world's top companies and include Sony, Nikon, the Massachusetts Institute of Technology, MIT, Thomson, Zeiss, NASA, the U.S. Air Force, Essilor, Thales Aliena Space, the Howard Hughes Medical Institute, EADS, the European Southern Observatory, the University of California at San Francisco (UCSF), the European Space Agency (ESA), amongst others. In 2006, Imagine Optic realized a turnover of €2,4M and currently employs 23 highly qualified professionals in a variety of domains. If you would like to learn more about us, please visit [www.imagine-optic.com](http://www.imagine-optic.com).

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