



## PRESS RELEASE

### **JenLab wins Oscar for Photonics for a novel MultiPhoton Tomograph**

*At Photonics West 2011 JenLab received the Prism Award in the category Life Sciences for High Resolution Optical Biospies with the Multiphoton tomograph MPTflex™*

SAN FRANCISCO, California, USA -- Winners of the *2010 Prism Awards*, the premier competition for innovation in the multi-billion dollar business of optics and photonics, were announced January 26, 2011 at a Gala Banquet during *SPIE Photonics West*, with 20,000 visitors the world's largest photonics event.

JenLab GmbH received the *Prism Award 2010* in the category *Life Sciences and Biophotonics* for its clinical multiphoton tomograph MPTflex™. As HighTech tool for dermatologists, cell biologists as well as the cosmetic and pharmceutic industry, the MPTflex™ overcomes the poor resolution of skin imaging methods such as ultrasound, OCT, and dermoscopy.

By using two-photon technology, marker-free 3D optical biopsies with subcellular resolution and chemical fingerprints can be provided. The novel tomograph is a compact femtosecond laser system with a flexible scan head that includes two single photon counting detectors for the simultaneous measurement

of tissue autofluorescence (NADPH, flavins, keratin, melanin, elastin) and the second harmonic generation of collagen.

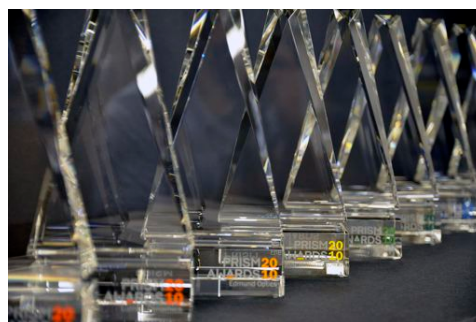
The MPTflex™ allows for rapid and none-invasive detection of the black skin cancer *malignant melanoma* and can monitor the efficiency of treatments such as in *dermatitis* and wound management. Further applications are the evaluation of the safety of sunscreen nanoparticles and the long-term testing of anti-aging products.

JenLab's multiphoton tomographs are in use in hospitals in Brisbane, London, Paris, Irvine/California, Jena, Modena, Gera, Mannheim, Münster, Magdeburg, and Berlin. Furthermore, the major cosmetic industries in Japan and UK as well as L'Oreal and Beiersdorf AG employ the multiphoton tomographs.

Karsten König, CEO of JenLab, announced in his address at the award ceremony the product launch for the American market. First clinical trials started at the *University of California Irvine*. Furthermore, the device will be applied in small animal research in San Diego for stem cell tracking.

The Prism Awards for Photonics Innovation recognize photonic products that challenge conventional ideas, solve problems, and improve life through the generation and harnessing of light. A panel of independent international industry experts judged nearly 100 entries and selected the winners from among 26 finalists in ten categories.

JenLab GmbH was founded as spin-off from the Medical Faculty of the University Jena, Germany in 1999. Primary goals of the company are the development of innovative Femtosecond Laser Technology for biotechnology, cell biology, and medicine. In 2010 the company founder and president Karsten König received the Berthold Leibinger Innovation Award for his achievements in Clinical MultiPhoton Tomography. JenLab has offices in Jena and Saarbrücken in Germany. The distributor in the US is MultiPhoton Laser Technologies, Inc.



Logo Prism Awards Winner

Prism Awards 2010 @SPIE

## Contact

Prof. Dr. Karsten König



### **JenLab GmbH**

German Head Office

Jenlab GmbH Schillerstr. 1, D-07745 Jena, Germany

p: +49 36 41 47 05 01 f: +49 36 41 47 05 43

[info@jenlab.de](mailto:info@jenlab.de)

[www.jenlab.de](http://www.jenlab.de)

### **US distributor**



### **MultiPhoton Laser Technologies, Inc.**

1002 Health Science Road

Irvine, CA 92697, USA

p: (949) 824 2832 f: (949)824 8413

[info@multiphotonlasertechnologies.com](mailto:info@multiphotonlasertechnologies.com)

[www.multiphotonlasertechnologies.com](http://www.multiphotonlasertechnologies.com)

### **More information about the Prism Awards for Photonics Innovation:**

[www.PrismAward.org](http://www.PrismAward.org) and [spie.org/photonics-west.xml](http://spie.org/photonics-west.xml) and [photonics.com](http://photonics.com) and

<http://spie.org/x44454.xml> The international society for optics and photonics

SPIE serves more than 180,000 constituents from 168 countries.



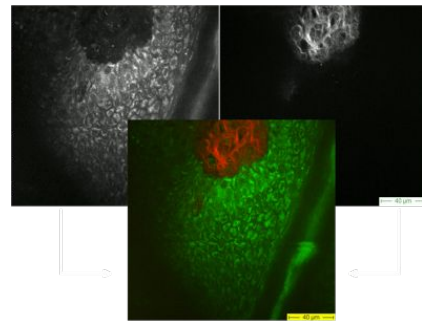
JenLab – Prism Award Winner



M. Kellner-Höfer, K. König, G. Breunig, M. Weinigel



Flexible MPTflex scan head @Paul Kennedy



Multiphoton sections of human skin



Multiphoton Tompgraph MPTflex™



Prism Award for optical biopsies with multiphoton tomography