

Einladung zu einem

Gastvortrag

Prof. Dr. A. Gruber, Ph.D.
Geschäftsführender Direktor
Fachbereich Veterinärmedizin
Institut für Tierpathologie
Robert-von-Ostertag-Str. 15
14163 Berlin

Telefon +49 30 8386 2440
Fax +49 30 8386 2522

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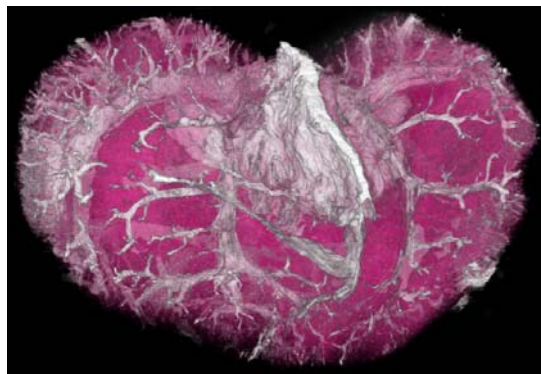
Dr. Martin Groher

www.micro-dimensions.com

wird am **12.05.2015**, 15:00 Uhr im Weiterbildungszentrum

„Veterinarium Progressum“ referieren über:

Beyond Visual Limits - Von Schnittserien zur 3D Histologie



Alle Fachbereichsangehörige und Gäste sind herzlich willkommen!

Mit freundlichem Gruß

Univ.-Prof. Dr. Achim D. Gruber, Ph.D. und Kristina Dietert, Ph.D.

microDimensions – beyond visual limits

Company

microDimensions is a spin-off of the Technische Universität München, founded in 2011. We are experts in the field of microscopic image analysis, in particular 2D and 3D image segmentation, registration, and visualization.

Topics

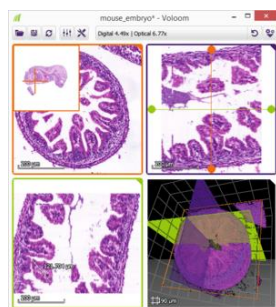


In this talk I will shortly introduce our product *Voloom*, which is a tool for fast 3D reconstruction, volume analysis and visualization of histology image stacks. With *Voloom* users gain new insights into micro-anatomy by reassembling volumes from serial sections imaged by a virtual slide scanner.



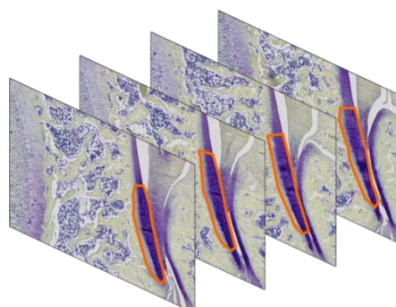
I will then give an overview of the product *Outspace*, which uses microDimensions' unique alignment algorithms to speed up the process of stereology volume measurements. The method based on the Cavalieri principle can be carried out with a minimal amount of user interaction compared to other software solutions.

Finally I will give an outlook in microDimensions' recent technological advances to automatically align multi-stained histology sections. The talk will be followed by a Q&A session and a live demo of the software products if requested.



"Previously, we spent several hours to a couple of days to reconstruct [...] with Voloom] it took 3-5 minutes for initial reconstruction and another 10 minutes for detailed reconstruction." Prof. Y. Yagi, Harvard Medical School

 **Voloom**



"The stereology solution from microDimensions speeds up our workflow by more than 30 percent in comparison to our previous software solution." Dr. Sven Lindemann, Merck KGaA

 **Outspace**

Further Information

- Duration: Approx. 45mins + 15mins Q&A
- This talk is meant for researchers in the fields of biomedical imaging, (digital) pathology and anatomy
- For more information on product functionality or underlying technology please visit <http://micro-dimensions.com>
- About the speaker: Dr. Martin Groher is CEO of microDimensions, holds a PhD from the TU München and authors more than 30 scientific papers on biomedical image analysis.