

## Stereologie Workshop

<b>Title:</b>	<b>Workshop on Quantitative Microscopy 2023</b>
Date, duration:	14. - 18. August 2023, 5 days
Location:	Institute of Anatomy, "Lesesaal Altbau", Entrance: Bühlstrasse 26, 3012 Bern
Lecturer(s):	Jeny Nyengaard, Matthias Ochs, Christian Mühlfeld, Beat Haenni, Christina Brandenberger, Stefan Tschanz (ANA)
Contact:	Stefan Tschanz, PD Dr. med IT Eng.
Number of participants:	max. 25 students (the workshop is internationally advertised, takes place only with enough registrations)
Target audience:	This workshop is intended for students and researchers from the field of biology and medicine interested in sampling and measurement of 3D structures. Applications involving any kind of microscopy (e.g. light microscopy, confocal laser scanning microscopy, multi-photon microscopy, electronmicroscopy) as well as non-invasive scanning techniques like CT and NMR are welcome.
Registration:	
KSL:	26045
Reward:	2.5 ECTS
Costs:	450 CHF per student
-	PhD students enrolled in the Graduate School for Cellular and Biomedical Sciences ( <a href="#">GCB</a> ) can apply for refund at the PhD program Cutting Edge Microscopy
Learning goals:	This workshop provides an introduction to state-of-the-art stereology with emphasis on its practical application in biomedicine. Experimental design, sampling, use of stereological probes, estimation of stereological parameters, and the application of statistical methods appropriate for stereology are covered. The workshop encompasses lectures, classroom exercises with real biomedical images, and laboratory practicals demonstrating the implementation of proper sampling and processing techniques on real bio- logical organs.



Description: Stereology provides biomedical researchers with efficient and unbiased tools to obtain real 3D data like volume, surface, length, and number of organs, tissues, cells, and organelles from measurements done on microscopic sections.

Participants should bring their specific projects and questions. During the workshop, there will be ample opportunity for discussions with the instructors.

Course structure: Lectures and classroom practicals

Assessment: Introduction to own project and plenary presentation of the stereological project outline at the end of the week