

SYNCHROTRON LIGHT ON HEALTH SCIENCES *webinar series*



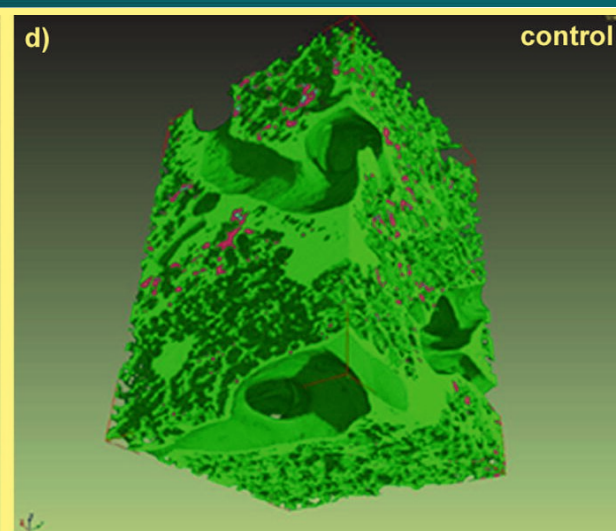
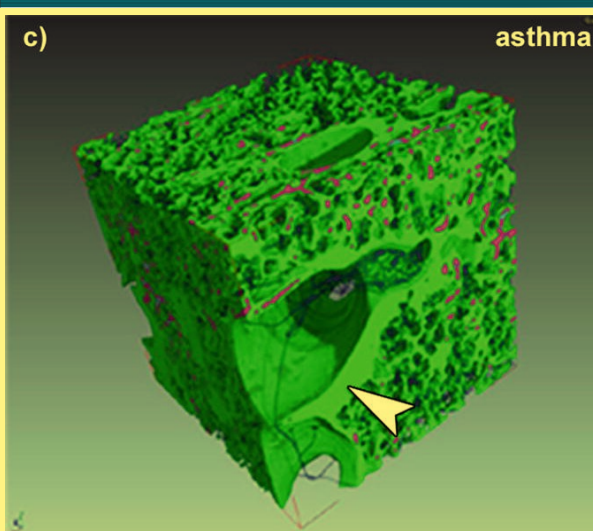
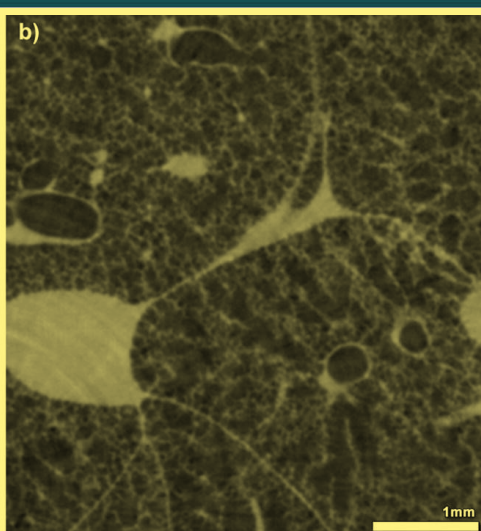
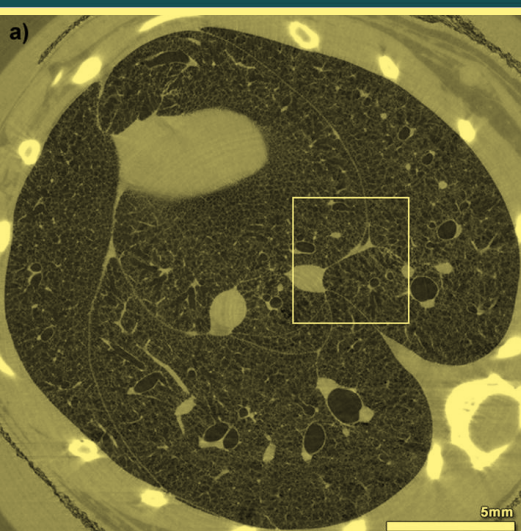
WEBINAR Thursday, July 8th 2021

#01

10:30 - 13:30 (GMT)

15:00 - 18:00 (Tehran Local Time)

Biomedical Applications of SYNCHROTRON RADIATION MICRO & NANO IMAGING



ABOUT THE IMAGE: (a) PBI image (9 μ m pixel size) of an in situ mouse lung inflated with air at a constant pressure of 30 cm water column. (b) shows the level of detail that can be achieved with synchrotron radiation imaging. (c, d) displays the 3D rendering of volumes of interest from an asthmatic and a healthy mouse.

Bayat S., Dullin C., Kitchen M.J., Lovric G. (2018) Synchrotron X-Ray-Based Functional and Anatomical Lung Imaging Techniques. In: Giuliani A., Cedola A. (eds) Advanced High-Resolution Tomography in Regenerative Medicine. Fundamental Biomedical Technologies. Springer, Cham.

TITLES

SPEAKERS

Shedding Light on Regional Lung Structure
and Function with Synchrotron Radiation



Prof. Sam BAYAT

Director of Synchrotron Radiation for Biomedicine Lab (STROBE)
Head of Lung Function Laboratory, CHU Grenoble-Alpes



X-Ray Phase Contrast Imaging
for Biomedicine



Dr. Emmanuel BRUN

Co-Founder of MoreHisto
INSERM UA07



High-Resolution Quantitative Label-Free
Microscopy: Probing the Nano-Bio-World



Dr. Julio Cesar da SILVA

Scientist at Materials, Radiation & Structure Team
INSTITUT NÉEL CNRS



Unveiling the Chemical Landscape of Cells
Using Synchrotron X-Ray Nano-Probe



Dr. Sylvain BOHIC

Scientist at STROBE
INSERM UA07



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