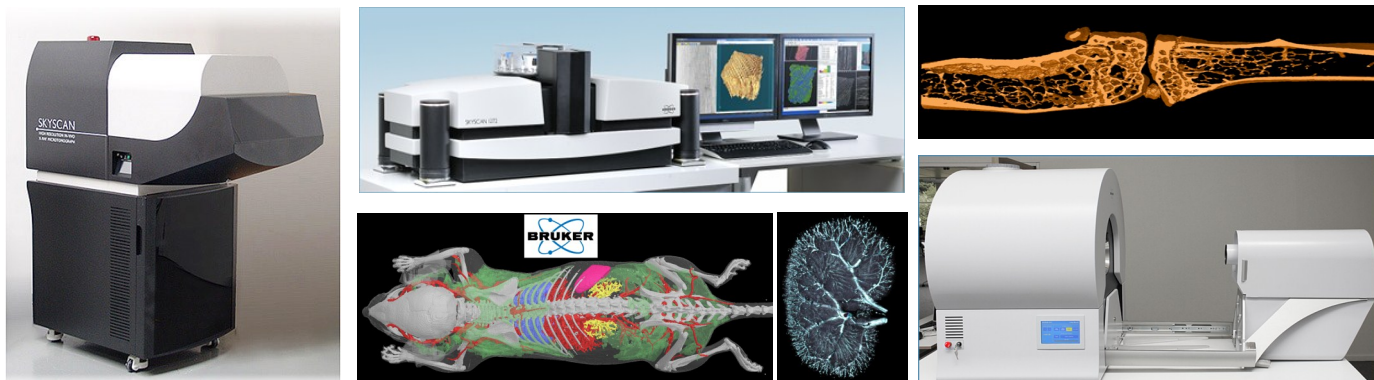


Application of microCT technique for biological applications (preclinical research)

Company RMI, s.r.o. would like to invite you to an educational workshop „**Application of microCT technique for biological applications**“ that will be held with in cooperation with Czech Centre for Phenogenomics in BIOCEV building (address: Průmyslová 595, Vestec) on January 21st 2016.



Participants of the workshop will learn basics of microCT technique (computed tomography), that allows nondestructive analysis of sample inner structure with high resolution. This technique has recently been gaining significance in preclinical research (bio applications), including in-vivo (live animal scanning) or ex-vivo applications (characterization of bones, bone implants, lung, liver, kidney, heart, spleen, fat etc.).

In the beginning of the workshop, basics of microCT will be summarized and explained, so the workshop is well suited also for participants not familiar with the technique yet. The workshop is focused primarily on applications - sample preparation procedures, methods used and examples of real measurements will be shown. Two main application talks will be presented by application specialist of Bruker microCT company - Phil SALMON, Ph.D. from Belgium. Practical demonstrations from research will be presented by a user of Skyscan 1176 instrument - Czech Centre for Phenogenomics represented by Jan Procházka, Ph.D. The real demo measurement will be organized at the end of the seminar—instrument Skyscan 1176 for in-vivo measurements will be presented to those, who will be interested.

Workshop program

10:00 - 10:05	Opening of the workshop, introduction of RMI, s.r.o. and Bruker microCT companies
10:05 - 10:35	Basics of microCT technique
10:35 - 11:10	MicroCT instruments for in-vivo biological applications (live animal scanning)
11:10 - 12:00	In-vivo microCT applications (practical results demonstration)
12:00 - 12:30	Using in-vivo microCT for systematic phenotype analysis
12:30 - 13:30	Lunch break
13:30 - 13:45	MicroCT analysis of mutations in structure genes of tooth enamel
13:45 - 14:25	MicroCT instruments for ex-vivo biological applications (bones, soft tissues, stents...)
14:25 - 15:15	Ex-vivo microCT applications (practical results demonstration)
15:15	End of workshop, demonstration of measurement on Skyscan 1176 for those interested

Registration

We kindly ask those interested in the workshop to register on e-mail sale@rmi.cz before **January 14th 2016**, number of participants is limited. In the e-mail please indicate, whether you are interested in the demonstration of real measurement on instrument Skyscan 1176.

Venue: Biotechnology and Biomedicine Center of the Academy of Sciences and Charles University in Vestec
lecture room 249 (the room and a path to it will be marked)

How to get to the venue:

Public transport

subway to Opatov station (line C) - then by bus number 326 in the direction Jesenice, station Vestec, BIOCEV.

By car

Address: Průmyslová 595, 252 42 Vestec

GPS Loc: 49°58'56.189"N 14°29'12.540"E (entrance to the premises)

GPS Loc: 49°58'49.968"N 14°29'17.600"E (building, where the workshop will take place)

Below are maps with the position of the building, where the workshop will take place. The building photo is also attached.

