



“Victor Babes” National Institute of Pathology and Leica Microsystems are glad to invite you to the

ELECTRON MICROSCOPY SAMPLE PREPARATION WORKSHOP FOR TEM AND CRYO TEM APPLICATIONS

Venue: “Victor Babes” National Institute of Pathology,
Splaiul Independentei 99–101, Bucharest, Romania
Date: 20th and 21st February 2018

DAY 1 – TUESDAY, 20TH FEBRUARY 2018

Lectures		
09:30–10:00	Registration	
10:00–10:20	Welcome and introducing the agenda	Mihaela Gherghiceanu & Medist Life Science
10:20–10:45	Overview of sample prep. techniques for TEM applications	Andreas Nowak
10:45–11:30	Cryo-electron microscopy in biomedical research	Mihaela Gherghiceanu
11:30–11:45	Coffee break	
11:45–12:15	Cryo sectioning according Tokuyasu method & immuno gold labelling	Andreas Nowak
12:15–12:45	HPF vs Chemical fixation – the advantages of cryo fixation	Frederic Leroux
12:45–13:45	Lunch	
13:45–14:20	High pressure freezing and follow-on techniques for TEM, cryo TEM & cryo SEM	Andreas Nowak
14:20–14:45	Coffee break & and dividing participants in groups	

Practical demonstration: see next page



DAY 1 – TUESDAY, 20TH FEBRUARY 2018 (CONTINUED)

Practical demonstration (3 groups, each group 1.5 hours and then swapping groups)		
14:45–16:15	Group RED : Cryo sectioning	Andreas Nowak
	Group GREEN : GP – immersion freezing for cryo TEM application	Emanuel Fertig
	Group BLUE : High pressure freezing & discussing freeze substitution for room temp sectioning application	Frederic Leroux
16:15–16:30	Coffee break	
16:30–17:00	Q&A, open application discussions – end of day one	All

DAY 2 – WEDNESDAY, 21ST FEBRUARY 2018

Practical demonstration (continuing)		
09:30–11:00	Group RED : High pressure freezing & discussing freeze substitution for room temp sectioning application	Frederic Leroux
	Group GREEN : Cryo sectioning	Andreas Nowak
	Group BLUE : GP – immersion freezing for cryo TEM application	Emanuel Fertig
11:00–11:20	Coffee break	
11:20–12:50	Group RED : GP – immersion freezing for cryo TEM application	Emanuel Fertig
	Group GREEN : High pressure freezing & discussing freeze substitution for room temp sectioning application	Frederic Leroux
	Group BLUE : Cryo sectioning	Andreas Nowak
12:50–14:00	Lunch	
14:30–15:00	Q&A, open discussions on topics we covered	All
15:00–16:00	Latest developments and trends in cryo EM Sample Preparation, including CRYO CLEM	Frederic Leroux
16:00–17:00	Q&A, open application discussions – end of the workshop	All

REGISTRATION

If you would like to register for the workshop, or if you have questions about it, please send an email until 14th February 2018 to one of the below contacts:

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Pre-registration is mandatory. Participation is free of charge, but seats are limited (12 participants for the practical workshop and 70 participants for the lecture session).