

# LIGHTSHEET AND SUPER-RESOLUTION TECHNIQUES WITH LOW PHOTOTOXICITY AND AUTOFLUORESCENCE FOR PLANT TISSUES

PRACTICAL SESSIONS ON MULTISPECTRAL CONFOCAL SYSTEM **LEICA SP8X** WITH  
**LIGHTNING**, LIGHT-SHEET, **LEICA DVM6, S9i** AND **DM750**

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## 9. – 11. MAY 2018

**LOCATION: INSTITUTE OF EXPERIMENTAL BOTANY**

CENTRE OF PLANT STRUCTURAL AND FUNCTIONAL GENOMICS, ŠLECHTITELŮ 31, 783 71, ROOM 105,  
OLOMOUC-HOLICE, CZECH REPUBLIC

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ORGANIZERS AND SPEAKERS

**JAROSLAV DOLEŽEL**

(INSTITUTE OF EXPERIMENTAL BOTANY, CENTRE OF PLANT STRUCTURAL AND FUNCTIONAL GENOMICS)

**IVAN NOVOTNÝ**

(LIGHT MICROSCOPY CORE FACILITY, INSTITUTE OF MOLECULAR GENETICS OF THE ASCR, V. V. I.)

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**DANIEL SMEETS**

(APPLICATION MANAGER, LEICA MICROSYSTEMS)

**MARTIN KOPECKÝ**

(SALES MANAGER, PRAGOLAB s.r.o.)



PRELIMINARY PROGRAMME

MAY 9, **WEDNESDAY**

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08:45	REGISTRATION
08:55 – 09:00	WELCOME BY MARTIN KOPECKÝ, JAROSLAV DOLEŽEL
09:00 – 09:20	<b>OUR RESEARCH PROGRAM AND ITS FUTURE WITH HIGH RESOLUTION</b> JAROSLAV DOLEŽEL
09:20 – 10:10	<b>SP8 WHITE LIGHT LASER – THE WHITE CONFOCAL AND LIGHTNING – THE FAST, GENTLE AND SENSITIVE CONFOCAL SUPER-RESOLUTION APPROACH</b> DANIEL SMEETS
10:10 – 10:40	<b>PRACTICAL ASPECTS OF STED MICROSCOPY</b> IVAN NOVOTNÝ
10:40 – 11:00	<b>COFFEE BREAK</b>
11:00 – 11:40	<b>FROM SP8 TO DIGITAL LIGHT SHEET – INTRODUCTION AND SAMPLE PREPARATION</b> DANIEL SMEETS
11:40 – 12:10	<b>SUPERRESOLUTION LIVE IMAGING OF PLANTS</b> KOMIS GEORGIOS
12:10 – 12:50	<b>OPEN DISCUSSION WITH ALL SPEAKERS</b> ALL SPEAKERS + MODERATOR
13:00 – 13:45	LUNCH
14:00 – 16:00	<b>PRACTICAL HANDS ON SESSION 1A</b> (Leica SP8 X + DLS MODULE) <b>PRACTICAL HANDS ON SESSION 1B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)

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**MAY 10, THURSDAY**

9:00 – 11:00	<p><b>PRACTICAL HANDS ON SESSION 2A</b> (Leica SP8 X + DLS MODULE)</p> <p><b>PRACTICAL HANDS ON SESSION 2B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)</p>
12:00 – 14:00	<p><b>PRACTICAL HANDS ON SESSION 3A</b> (Leica SP8 X + DLS MODULE)</p> <p><b>PRACTICAL HANDS ON SESSION 3B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)</p>
14:30 – 16:30	<p><b>PRACTICAL HANDS ON SESSION 4A</b> (Leica SP8 X + DLS MODULE)</p> <p><b>PRACTICAL HANDS ON SESSION 4B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)</p>

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**MAY 11, FRIDAY**

9:00 – 11:00	<p><b>PRACTICAL HANDS ON SESSION 5A</b> (Leica SP8 X + DLS MODULE)</p> <p><b>PRACTICAL HANDS ON SESSION 5B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)</p>
12:00 – 14:00	<p><b>PRACTICAL HANDS ON SESSION 6A</b> (Leica SP8 X + DLS MODULE)</p> <p><b>PRACTICAL HANDS ON SESSION 6B</b> (Leica DVM6 + Leica S9i + Leica DM2500 + Leica DM750)</p>



SAMPLES PREPARATION FOR DIGITAL LIGHT SHEET:

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FOR LEICA DLS LIGHT SHEET DOWNLOAD SIMPLE SAMPLE PREPARATION GUIDE [HERE](#) AND WITH PRACTICAL PICTURES [HERE](#).

YOU CAN ALSO READ ARTICLE ON [LEICA SCIENCE WEB](#).

REGISTRATION:

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PLEASE REGISTER AS SOON AS POSSIBLE, THE CAPACITY IS LIMITED! FEE FOR THIS WORKSHOP IS **FOR FREE** BUT REGISTRATION IS REQUIRED AND INCLUDES COFFEE BREAKS REFRESHMENT

USE THE FORM ON THE WEBSITE [WWW.PRAGOLAB.CZ/SP8X](http://WWW.PRAGOLAB.CZ/SP8X) OR REGISTRATION FORM [HERE](#)

REGISTRATION FOR DEMONSTRATION AND HANDS-ON SESSIONS IS OBLIGATORY. EACH SESSION - 120 MIN.; **MAX 6 PEOPLE**.

REGISTER FOR A PARTICULAR TIME SLOT IN THE REGISTRATION FORM.

PLEASE BE PRESENT FOR THE HANDS-ON SESSION 15 MINUTES IN ADVANCE. YOU CAN BRING YOUR OWN SAMPLES BUT BE AWARE THAT ONLY 2 SAMPLES CAN BE DONE IN 1 HANDS-ON SESSION.

**PLEASE INFORM US ABOUT YOUR SAMPLES IN ADVANCE**

**In case of any questions please contact us by e-mail.**

**CONTACT PERSON:**

**MARTIN KOPECKÝ**

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