

**Next Dimension with STED (Stimulated Emission Depletion) microscopy TCS SP8 STED 3X
and evolution of the resolution with Super-Resolution System
for 3D Localization Microscopy Leica SR GSD 3D**



Free workshop on Super-Resolution microscopy Leica TCS SP8 STED 3X with hands on session.

Date: March 24 - 25, 2015

Place: [Institute of Molecular Genetics AS CR](#), Videnska 1083, Prague 4 (Milan Hasek auditorium ground floor)

March 24 Tuesday:

8:30 Registration

8:45 Welcome (**Prof. Pavel Hozák**, IMG Microscopy Centre leader)

09:00 - 10:00 **Leica TCS SP8 STED 3X - Your Next Dimension**

Presentation about STED 3X technology from Leica, technical principals and information, practical examples, sample preparation and your bonuses!

Dr. Nathalie Garin, European Field Application Specialist at Leica Microsystems

10:00 – 10:30 **How far are we familiar with STED: Leica TCS SP8 STED 3X at IMG?**

Practical aspects - experiment settings: the resolution depends on fluorophores; suitable fluorophores and how to combine them; practical examples.

Dr. Ivan Novotný, Light Microscopy and Flow Cytometry

10:30 – 11:00 **Coffee break**

11:00 – 11:30 **Deconvolution – the way how to reduce image degradations**

Brief theoretical introduction, using Huygens software for deconvolution of microscopic and STED images – practical examples, other software packages

Super-Resolution Workshops

applicable for deconvolution.

Dr. Martin Čapek, Light Microscopy and Flow Cytometry

11:30 – 12:00 **Localization Microscopy Leica SR GSD 3D**

Presentation about Leica SR GSD 3D technology from Leica, technical principals and information, practical examples, sample preparation and your bonuses!

Dr. Mariusz Wladowski, Sales Manager LSR

Hands-on sessions

March 24 Tuesday

13:00 – 15:00 **Demonstration and Hands on session SLOT 1**

15:10 – 17:10 **Demonstration and Hands on session SLOT 2**

(each session 120 min. – registration obligatory)

March 25 Wednesday:

09:00 – 11:00 **Demonstration and Hands on session SLOT 3**

11:10 – 13:10 **Demonstration and Hands on session SLOT 4**

14:00 – 16:00 **Demonstration and Hands on session SLOT 5**

16:10 – 18:10 **Demonstration and Hands on session SLOT 6**

(each session 120 min. – registration obligatory)

Registration:

Please register as soon as possible, the capacity is limited!

Use the links in the table for registering at a particular hands-on session:

SLOT 1 – March 24 Tuesday, 13:00-15:00	SLOT 4 – March 25 Wednesday, 11:10-13:10
SLOT 2 – March 24 Tuesday, 15:10-17:10	SLOT 5 – March 25 Wednesday, 14:00-16:00
SLOT 3 – March 25 Wednesday, 9:00-11:00	SLOT 6 – March 25 Wednesday, 16:10-18:10

Super-Resolution Workshops



Info:

The registration for demonstration and hands-on sessions is obligatory.

Each session - 120 min., max **5** people.

Register for a particular time slot in the registration form.

Please be present for the hands-on session 15 minutes before.

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 specimens via email (kopecky@mikro.cz & mariusz.Wladowski@leica-microsystems.com) **and follow the sample preparation guide for STED**. In case of questions please contact us on above e-mails.

The workshop is limited to researchers and technicians from public research institutions and universities. Due to a limited space the workshop is not intended for representatives of the private sector. Thank you for understanding.

Contact persons: Martin Kopecký, kopecky@mikro.cz

Registration – Markéta Morská, morska@img.cas.cz