

FLIM not only for biologists (FNOB)



Nov 9. – Nov 11., 2026

IMCF at BIOCEV, Průmyslová 595, Vestec
LM at IM and IPhys BF, Vídeňská 1083, Praha 4
SIS code: MB100P03

Program (still subject to last minute changes)

Monday, Nov 9.

09:00 – 09:10 Welcome and introduction of organizers

[Aleš Benda](#)

09:10 – 09:55 Fluorescence lifetime and imaging – Basic principles

[Dalibor Pánek](#)

09:55 – 10:35 Introduction to TCSPC based FLIM instrumentation part I.

[Peter Kapusta](#)

10:35 – 10:50 Coffee break

10:50 – 11:30 Introduction to TCSPC based FLIM instrumentation part II.

[Peter Kapusta](#)

11:30 – 12:10 Flash talks by participants – (2 min about yourself and your research)

12:10 – 13:00 Lunch

13:00 – 13:20 Overview of typical FLIM applications

[Aleš Benda](#)

13:20 – 14:00 Different ways of FLIM data analysis

[Dalibor Pánek](#)

14:00 – 15:00 FLIM acquisition artefacts and interpretation pitfalls

[Peter Kapusta](#)

15:00 – 15:15 Coffee break

15:15 – 15:45 IMCF FLIM tour - instrument Introduction 1 round – 4 stations (Abberior Inst. Infinity Line, Leica SP8 WLL + MH150 P, Leica SP8 cryo + MH150 P, Carl Zeiss LSM880 NLO + HH400)

15:45 – 16:15 Instrument Introduction 2 round

16:15 – 16:45 Instrument Introduction 3 round

16:45 – 17:15 Instrument Introduction 4 round

17:15 – 19:00 [Get together \(pizza time :\) \)](#) plus [technical checkup for data analysis hands-on](#)

Tuesday, Nov 10.

Hands-on sessions:

1. **FLOPA** – BIOCEV – Dalibor Pánek and Zuzana Čočková - *opening, processing and analysing FLIM (Fluorescence Lifetime Imaging Microscopy) data* in FLOPA
2. **Multiplexing** – BIOCEV – Marie Olšinová and Piotr Jurkiewicz – *FLIM-based multiplexing in confocal and STED* on Abberior INFINITY
3. **NAD(P)H** – IPhys – Daniel Hadraba - *Fluorescence lifetime imaging of cellular metabolic pathway* on Leica SP8 2P
4. **Flipper TR** – IMG – Michaela Blažíková and Ivan Novotný - *Sensing lipid membrane packing by Flipper-TR probe in organoids* on Leica Stellaris 8

		Group 1	Group 2	Group 3	Group 4
Wednesday Nov 20th	1 st round	FLOPA	Multiplexing	NAD(P)H	Flipper TR
	2 nd round	Multiplexing	FLOPA	Flipper TR	NAD(P)H
Thursday Nov 21th	3 rd round	NAD(P)H	Flipper TR	FLOPA	Multiplexing
	4 th round	Flipper TR	NAD(P)H	Multiplexing	FLOPA

09:00 – 09:20 Lipid membrane micro-environment sensing

[Piotr Jurkiewicz](#)

09:20 – 13:00 Hands-on – 4 groups – 1st round

[Flexible](#) [Coffee break](#)

[13:00 – 13:45](#) [Lunch](#)

13:45 – 14:00 FLIM data formats and overview of open access FLIM software packages

[Aleš Benda](#)

14:00 – 17:30 Hands-on – 4 groups – 2nd round

[Flexible](#) [Coffee break](#)

Wednesday, Nov 11.

09:00 – 09:20 FLIM multiplexing for live cell imaging

[Aleš Benda](#)

09:20 – 13:00 Hands-on – 4 groups – 3rd round

[Flexible](#) [Coffee break](#)

[13:00 – 13:45](#) [Lunch](#)

13:45 – 14:00 Color coding in FLIM

[Piotr Jurkiewicz](#)

14:00 – 17:30 Hands-on – 4 groups – 4th round

[Flexible](#) [Coffee break plus feedback form](#)



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