FRET by all means

Nov 12. – Nov 13., 2026
IMCF at BIOCEV, Průmyslová 595, Vestec

Program (still subject to last minute changes)

Thursday, Nov 12.

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

09:10 – 09:40 General principles of Forster Resonance Energy Transfer
Dalibor Pánek

09:40 – 10:30 How to image FRET? Part I.
Aleš Benda, Piotr Jurkiewicz

10:30 – 10:45 Coffee break

10:45 – 11:10 How to image FRET? Part II.
Aleš Benda, Piotr Jurkiewicz

11:10 – 11:40 FRET by flow cytometry
Ondřej Honc

11:40 – 12:30 Typical applications of FRET
Petra Prokšová/Marie Olšinová

12:30 – 13:30 Lunch

13:30 – 17:00 Hands-on – 3 groups – 1st round

Flexible Coffee break

Hands-on sessions:

1. **Spinning disc** – Dalibor Pánek and Petra Prokšová – ***FRET by sensitized emission and acceptor photobleaching*** on Nikon CSU-W1
2. **Confocal** – Marie Olšinová and Piotr Jurkiewicz – ***FLIM-FRET*** on Leica SP8
3. **Flow cytometry** – Ondřej Honc – ***FRET using flow cytometry*** on BD LSRFortessaTM SORP and Cytek® Aurora

		Group 1	Group 2	Group 3
Thursday Nov 12th	1st round	Spinning disc	Confocal	Flow cytometry
Friday Nov 1šth	2nd round	Flow cytometry	Spinning disc	Confocal
	3rd round	Confocal	Flow cytometry	Spinning disc

Friday, Nov 13.

09:00 – 12:30 Hands-on – 3 groups – 2nd round
Flexible Coffee break
12:30 – 13:15 Lunch

13:15 – 13:45 FRET quantification
Ondřej Havránek
13:45 – 17:30 Hands-on – 3 groups – 3rd round
Flexible Coffee break plus feedback form

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