

# Short Course on Practical Microfluidics

18 to 20 March 2024

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## Schedule

Monday, March 18<sup>th</sup>

	Time	Title	Lecturer
	08:00	Registration	
	08:20 - 08:30	Welcome and administrative information	Cierpka
Lecture	08:30 - 09:30	Introduction to microfluidics	Cierpka
Lecture	10:00 - 11:30	Introduction to fabrication techniques I	Strehle
	11:30 - 12:00	Safety instructions	Albrecht
Lab work	13:00 - 16:00	Practical sessions in small groups (see extra list)	(see list)
Lecture	16:30 - 18:00	Droplet microfluidics	Groß
Lecture	18:00 - 21:00	Pitch session of companies, Welcome reception and buffet	Exhibitors

Tuesday, March 19<sup>th</sup>

	Time	Title	Lecturer
Lecture	08:30 - 10:00	Fabrication techniques II	Dittrich
Lab work	10:30 - 12:00	Practical sessions in small groups (see extra list)	(see list)
Lecture	13:00 - 16:00	Practical sessions in small groups (see extra list)	(see list)
Lecture	16:30 - 17:30	Biomechatronical applications	Witte

Wednesday, March 20<sup>th</sup>

	Time	Title	Lecturer
Lecture	08:30 - 10:00	Introduction to electrokinetics	Hardt
Lab work	10:30 - 12:00	Flow measurement techniques for microfluidics	Rossi
Lecture	12:00 - 12:15	Questions & Answer, Feedback, Farewell	all lecturers

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## List of practical sessions

Lab course 1:	Photolithography and lift-off technique	Koppka / Venier
Lab course 2:	PDMS microfluidic channel molding and nanoimprint lithography	Handte / Schreier
Lab course 3:	2D-concentration space in droplet based microfluidics	Schneider / Cao
Lab course 4:	Flow measurements – APTV	König
Lab course 5:	General defocusing particle tracking – data evaluation	Cierpka / Sachs



