



BioPhotonics Ph.D. course 2026

Monday August 17th to Friday August 21st

DaMBIC & PhyLife, University of Southern Denmark, Odense Campus, Denmark

Organized by: DaMBIC, Danish Molecular Biomedical Imaging Center & Nikon/Ramcon

Venue: PhyLife and DaMBIC facilities and labs

More information on www.sdu.dk/en/forskning/dambic/courses/biophotonics-course

TENTATIVE PLAN

Monday Aug 17, 2026

08:00	-	09:30	General intro to microscopy and fluorescence	Jonathan
09:30	-	10:30	Confocal laser scanning microscopy	Jonathan
10:30	-	11:00	Coffee break+Announcement of projects	
11:00	-	12:00	Image Analysis	Daniel
12:00	-	12:45	Lunch break	
12:45	-	13:30	Two photon microscopy	Jonathan
13:30	-	18:00	Microscopy practicals	Labs

Tuesday Aug 18, 2026

08:00	-	09:00	Super resolution microscopy I	Jonathan
09:00	-	09:45	Super resolution microscopy II	Jonathan
09:45	-	10:15	Coffee break	
10:15	-	11:30	CARS / MERFISH	Jonathan
11:30	-	12:00	Automatic image acquisition and analysis	Morten
12:00	-	13:00	Lunch break	
13:00	-	13:10	Teams for projects+materials hand-out	
13:10	-	17:30	Microscopy practicals	Labs

Wednesday Aug 19, 2026

08:00	-	09:00	Correlation methods FCS	Jonathan
09:00	-	09:30	Application talk	TBD
09:30	-	10:00	Sponsor Talk, Ramcon / Nikon	
10:00	-	10:30	Coffee break	
10:30	-	12:00	Short demonstrations 1 + 2 (45 min each)	
12:00	-	13:00	Lunch break	
13:00	-	17:30	Microscopy practicals incl. case study	Labs
19:00	-	22:00	Joint dinner (tentative)	

Thursday Aug 20, 2026

08:30	-	12:00	Project	Labs
12:00	-	13:00	Lunch break	
13:00	-	18:00	Project	Labs

Friday Aug 21, 2026

08:30	-	10:00	Presentation preparation	Practical
10:00	-	10:00	Coffee break	
10:00	-	11:30	Presentation preparation	Practical
11:30	-	12:00	Lunch break	
12:00	-	16:30	Presentations and wrap up	Lecture