



**Karolinska
Institutet**

Schedule for
Complex tissue analysis with multistaining and imaging techniques (3BL010)
Magisterprogrammet i biomedicinsk laboratorievetenskap

Term 2 2026
30 March-07 June 2026

Course director: Malgorzata Parniewska (KI, Avd. för Patologi) malgorzata.parniewska@ki.se

Examiner: Pernilla Lång (KI, Avd. för Patologi) Pernilla.Lang@ki.se

Teachers: Malgorzata Parniewska

Pernilla Lång

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Week	Date	Teaching activity	Location	Time	Teachers
0. Introduction + 1. Multistaining technologies and their role in diagnostic pathology and research					
14	Mon 30/3	Introduction to course (video) Mandatory Quiz about course introduction Optional Quiz about staining basics	Canvas		Malgorzata Parniewska
	Tue – Thu 31/3 – 2/4	Self-preparation Module 1 + discussion forum in Canvas			Malgorzata Parniewska Carlos Fernandez Moro
	Fri 3/4	Good Friday			
15	Mon 6/4	Easter Monday			
	Tue – Thu 7 – 9/4	Project work 1			
	Wed 8/4	Q&A session	Zoom	17-18	
	Fri 10/4	TBL 1	Zoom	9–12	
Project work 1 presentation		Zoom	13–16		
2. Image acquisition techniques used in diagnostic pathology and research					
16	Mon –Thu 13 – 16/4	Self-preparation Module 2 + discussion forum in Canvas			Pernilla Lång Wenyang Shi
	Fri 17/4	TBL 2	Zoom	9-12	
17	Mon-Thu 20 – 23/4	Project work 2			
	Wed 22/4	Q&A session	Zoom	17-18	
	Fri 24/4	Project work 2 presentation	Zoom	9–12	
3. Quantitative analysis of tissues using ImageJ					
18	Mon – Thu 27 – 30/4	Self preparation Module 3 + discussion forum in Canvas			Malgorzata Parniewska
	Fri 1/5	May 1st			
19	Mon – Thu 4 –7/5	Project work 3			
	Wed 6/5	Q&A session	Zoom	17–18	
	Fri 8/5	TBL 3	Zoom	9-12	
Project work 3 presentation		Zoom	13-16		

4. Statistical analysis of image data

20	Mon – Fri 11 – 13/5	Self-preparation Module 4 + discussion forum in Canvas			Malgorzata Parniewska
	Thu 14/5	Ascension Day			
	Fri 15/5	-	-	-	
21	Mon – Thu 18 – 21/5	Project work 4			Malgorzata Parniewska
	Wed 20/5	Q&A session	Zoom	17-18	
	Fri 22/5	TBL 4	Zoom	9-12	
		Project work 4 presentation	Zoom	13-16	

5. Machine learning and AI in diagnostic pathology and research

22	Mon – Thu 25 – 28/5	Self-preparation Module 5 + discussion forum in Canvas			Malgorzata Parniewska Carlos Fernandez Moro Malgorzata Parniewska Pernilla Lång
	Fri 29/5	TBL 5	Zoom	9-12	
	Wed 3/6	Q&A session before examination	Zoom	17-18	
	Fri 5/6	Examination	Zoom	13–16	

Opportunities to repeat failed presentation work:

Fri 29/5 13-16