

Course Schedule

VM0130 Clinical genomics in veterinary medicine, 7.5 Credits Spring semester 2025

20241214_GL

L: Lecture; G: Group Discussion; C: Computer exercise (compulsory); D: Dry laboration (compulsory)

W	Day	Date	Time	Subject/Activity	Teacher	Where
				THEME 1 Genes, genomes and gene expression		
4	Mon	Jan 20	14.00-14.30 14.30-16.00	Course plan L1: Introduction to animal genomics – an overview	GL GL	Zoom Zoom/prerecorded lecture
	Tue	Jan 21	14.00-16.00	L2: Genome structure and function	SM	Zoom/prerecorded lecture
	Wed	Jan 22		Read course literature linked to lecture 1, 2	Own studies	
	Thu	Jan 23		Read course literature linked to lecture 1, 2	Own studies	
	Fri	Jan 24	13.00-17.00 Deadline 17.00	Read course literature for Group discussion 1: Mitochondrial disease Assignment Lecture 2	Own studies (SM)	 Canvas
	Sat	Jan 25				
	Sun	Jan 26				
5	Mon	Jan 27	15.00-17.00	L3: Transcriptome and transcriptional regulation	GA	Zoom/prerecorded lecture
	Tue	Jan 28	14.00-16.00	Group Discussion 1: Mitochondrial disease, Part I (the group discuss)	GL	Zoom
	Wed	Jan 29		Read course literature linked to lecture 3	Own studies	
	Thu	Jan 30		Read course literature linked to lecture 3	Own studies	

	Fri	Jan 31	13.00-17.00	Time to prepare group discussion report	Own studies in groups	
			Deadline 17.00	Assignment Lecture 3	(GA)	Canvas
	Sat	Feb 1				
	Sun	Feb 2				
6	Mon	Feb 3	14.00-16.00	THEME 2 Genetics and epigenetics in disease Group Discussion 1: Mitochondrial disease, Part II (the group reports)	GL	Zoom
	Tue	Feb 4	14.00-16.00	L4: Genome mapping of disease and defects	GL	Zoom/prerecorded lecture
	Wed	Feb 5		Read course literature linked to lecture 4	Own studies	
	Thu	Feb 6	15.00-16.00	L5: A translocation associated with gonadal hypoplasia in cattle	AJ	Prerecorded lecture
			16.00-16.30	Time for questions on L5	AJ	Zoom
	Fri	Feb 7	13.00-17.00	Read course literature linked to lecture 4	Own studies	
			Deadline 17.00	Assignment Lecture 4	(GL)	Canvas
	Sat	Feb 8				
	Sun	Feb 9				
7	Mon	Feb 10	15.00-17.00	L6: Epigenetics in disease	GA	Zoom/prerecorded lecture
	Tue	Feb 11		Read course literature linked to lecture 6	Own studies	
	Wed	Feb 12	10.00-11.00	C: Introduction to computer exercise, alternate am time	GA	Zoom
			14.00-15.00	C: Introduction to computer exercise, alternate pm time	GA	Zoom
			15.00-17.00	C: Computer exercise	Own studies	
	Thu	Feb 13		Read course literature linked to lecture 6	Own studies	
	Fri	Feb 14	13.00-17.00	Read course literature linked to lecture 6	Own studies	
			Deadline 17.00	Assignment Lecture 6	(GA)	Canvas

	Sat	Feb 15				
	Sun	Feb 16				
8	Mon	Feb 17	14.00-16.00	THEME 3 Genetics and genomics in a clinical setting L7: Clinical sequencing	GL	Zoom/prerecorded lecture
	Tue	Feb 18	13.00-17.00	Read course literature linked to lecture 7	Own studies	
	Wed	Feb 19	13.00-17.00	Read course literature linked to lecture 7	Own studies	
	Thu	Feb 20	14.00-16.00	L8: Molecular genetic diagnostics	SM	Zoom/prerecorded lecture
	Fri	Feb 21	13.00-17.00	Read course literature linked to lecture 7	Own studies	
			Deadline 17.00	Assignment Lecture 7	(GL)	Canvas
	Sat	Feb 22				
	Sun	Feb 23				
9	Mon	Feb 24	13.00-17.00	Time for recap	Own studies	
	Tue	Feb 25	10.00-11.00	D: Introduction to Dry laboration, alternate am time	GL	Zoom
			14.00-15.00	D: Introduction to Dry laboration, alternate pm time	GL	Zoom
			15.00-17.00	D: Dry laboration	Own studies	
	Wed	Feb 26	13.00-17.00	Read course literature linked to lecture 8	Own studies	
	Thu	Feb 27	13.00-17.00	Read course literature linked to lecture 8	Own studies	
	Fri	Feb 28	13.00-17.00	Read course literature linked to lecture 8	Own studies	
			Deadline 17.00	Assignment Lecture 8	(SM)	Canvas
	Sat	March 1				
	Sun	March 2				

10	Mon	March 3	13.00-17.00	Read course literature for Group discussion 2: Cloning, transgenic animals, gene therapy and ethics	Own studies	
	Tue	March 4	13.00-17.00	Read course literature for Group discussion 2: Cloning, transgenic animals, gene therapy and ethics	Own studies	
	Wed	March 5	13.00-17.00	Read course literature for Group discussion 2: Cloning, transgenic animals, gene therapy and ethics	Own studies	
	Thu	March 6	14.00-16.00	Group Discussion 2: Cloning, transgenic animals, gene therapy and ethics, Part I (the group discuss)	GA	Zoom
	Fri	March 7	13.00-17.00	Time for recap	Own studies	
	Sat	March 8				
	Sun	March 9				
11	Mon	March 10	13.00-17.00	Time to prepare group discussion report	Own studies in groups	
	Tue	March 11	14.00-16.00	Group Discussion 2: Cloning, transgenic animals, gene therapy and ethics, Part II (the group reports)	GA	Zoom
	Wed	March 12	14.00-16.00	L9: Cytogenetics	GL	Zoom/prerecorded lecture
	Thu	March 13	13.00-17.00	Read course literature linked to lecture 9	Own studies	
	Fri	March 14	13.00-17.00	Read course literature linked to lecture 9	Own studies	
	Sat	March 15				
	Sun	March 16				
12	Mon	March 17	13.00-17.00	Read course literature linked to lecture 9	Own studies	
	Tue	March 18	13.00-17.00	Reading and preparations for exam	Own studies	
	Wed	March 19	13.00-17.00	Time for questions before exam	SM/GA/GL	Zoom
	Thu	March 20	13.00-17.00	Reading and preparations for exam	Own studies	
	Fri	March 21	13.00-17.00	Reading and preparations for exam	Own studies	

			Deadline 17.00	Assignment Lecture 9	(GL)	Canvas
	Sat	March 22				
	Sun	March 23				
13	Mon	March 24	9.00-16.00	Oral examination	GL	Zoom, separate schedule

Teachers:

Teacher		Contact via email
AJ	Anna Johansson	anna.johansson@slu.se
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