

## HV0167 Animal genetics - health, behaviour and welfare

Note that most course activities are scheduled on Campus

Compulsory course activities in bold  
[asa.ohlsson@slu.se](mailto:asa.ohlsson@slu.se)

Course leader: Åsa Ohlsson

Week	Date	Day	Time	Activity	Teacher	Course moment	Location	Literature ref.no.
12	2023-03-22	Wednesday	9:15-9:45	Course introduction	ÅO	Course introduction and practicalities	BioC/Sal A132	
	2023-03-22	Wednesday	10:00-12:00	Lecture	GA	Genomics, <b>basics</b>	BioC/Sal A132	
	2023-03-23	Thursday		Lecture	ES	Statistical analyses, <b>basics</b> <i>Recorded video</i>	Canvas	39
			13:00-14:30	Discussion	ES	Statistical analyses, <b>basics</b> Questions and discussion on recorded lecture.	Ulls Hus/Sal Y	39
	2023-03-24	Friday	10:00-12:00	Lecture	LR	Recording behaviour and disease	Ulls Hus/Sal X	9, 10
13	2023-03-27	Monday	13:00-15:00	Lecture	LR	Animal breeding, <b>basics</b>	Ulls Hus/Sal X	26, 40
						<b>Quiz Genomics</b> <b>Quiz Statistical analyses</b>		
	2023-03-28	Tuesday	9:00-16:00			<i>Time for own studies</i>		
	2023-03-29	Wednesday	10:00-12:00	Lecture	LS	Ethology, <b>basics</b>	Ulls Hus/Sal Y	13
	2023-03-31	Friday	13:00-15:00	Lecture	LK	Animal welfare, <b>basics</b>	Ulls Hus/Sal X	21, 24
						<b>Quiz Animal breeding</b>		
14	2023-04-03	Monday	10:00-12:00	Lecture	LR	Estimation of genetic parameters for behaviour and health <b>Quiz Ethology</b> <b>Quiz Animal welfare</b>	Ulls Hus/Sal X Canvas	16
	2023-04-04	Tuesday	9:15-16:00	Group work	ES	Case group work Step 1 (1 <sup>st</sup> )	Organized by students	2, 18, 28
	2023-04-05	Wednesday	9:15-12:00	Discussion	ÅO	<b>Check point: Case group work Step 1</b>	Ulls Hus/Sal X	
	2023-04-06	Thursday	9:00-12:00			<i>Time for own studies</i>		
	2023-04-07					<b>EASTER HOLIDAY</b>		

Week	Date	Day	Time	Activity	Teacher	Course moment	Location	Literature ref.no.	
15	2023-04-10		<b>EASTER HOLIDAY</b>						
	2023-04-11	Tuesday	9:15-16:00	Exercise	ES	Computer exercise 1	Ulls Hus/Sal X	20	
	2023-04-12	Wednesday	9:15-12:00	Group work		Case group work Step 1 (2 <sup>nd</sup> )	Organized by students		
	2023-04-13	Thursday	13:00-15:00	Discussion	ÅO	<b>Individual project idea</b>	Ulls Hus/Sal X	38	
	2023-04-14	Friday	9:15-12:00	Group work		Case group work Step 1 (3 <sup>rd</sup> )	Organized by students		
16	2023-04-17	Monday	13:00	Group work		<b>Hand in report: Case group work Step 1</b>	Canvas		
	2023-04-18	Tuesday	9:00-12:00			<i>Time for own studies</i>			
	2023-04-19	Wednesday	13:00			<b>Hand in computer exercise 1</b>	Canvas		
	2023-04-20	Thursday	09:15-12:00	Report	LR	<b>Presentations: Case group work Step 1</b>	Ulls Hus/Sal X	32a-b	
	2023-04-21	Friday	09:15-12:00	Report	LR	<b>Presentations: Case group work Step 1</b>	Ulls Hus/Sal X	32a-b	
17	2023-04-24	Monday	10:00-12:00	Lecture	GA	Molecular genetics I	Ulls Hus/Sal X	8, 17, 27, 33, 35	
	2023-04-25	Tuesday	10:00-12:00	Lecture	TB	Molecular genetics II	Ulls Hus/Sal X	30, 31, 34, 36	
	2023-04-26	Wednesday	9:15-11:00	Lecture	GA	Epigenetics	Ulls Hus/Sal R	15	
			11:15-12:00	Lecture	ÅO	Methods in molecular genetics	Ulls Hus/SalR		
	2023-04-27	Thursday	9:00-12:00	Group work		Case group work Step 2 (1 <sup>st</sup> )	Organized by students		
	2023-04-28	Friday	10:00-11:30	Discussion	ÅO	<b>Check point: Case group work Step 2</b>	Ulls Hus/Sal R		
			13:00-15:00	Lecture	LR	Genetic evaluation	Ulls Hus/Sal X	37	
18	2023-05-01		<b>May 1<sup>st</sup></b>						
	2023-05-02	Tuesday	9:15-15:00	Exercise	ES	Computer exercise 2	BioC/Sal A132		
	2023-05-03	Wednesday	10:00-12:00	Lecture	LR	Selection I	Ulls Hus/Sal X	14, 22	
	2023-05-04	Thursday	13:00-15:00	Lecture	LR	Selection II	Ulls Hus/Sal X	5, 6	
	2023-05-05	Friday	9:00-12:00	Group work		Case group work Step 2 (2 <sup>nd</sup> )	Organized by students		
	2023-05-05	Friday	13:00-15:00	Group discussion		Discussion about genetic evaluation of dogs	Organized by students	1	

Week	Date	Day	Time	Activity	Teacher	Course moment	Location	Literature ref.no.	
19	2023-05-08	Monday	13:00-15:00	Lecture	MJ	From single genes to genomic selection	Ulls Hus/Sal Q	4	
	2023-05-08	Monday	13:00			<b>Hand in computer exercise 2</b>	Canvas		
	2023-05-09	Tuesday	9:00-12:00	Group work		Case group work Step 2 (3 <sup>rd</sup> )	Organized by students		
	2023-05-10	Wednesday	9:00-12:00			<i>Time for own studies</i>			
	2023-05-11	Thursday	13:00			<b>Hand in report: Case group work Step 2</b>	Canvas		
	2023-05-12	Friday	9:15-16:00	Report	ÅO	<b>Presentations: Case group work Step 2</b>	Ulls Hus/Sal X		
20	2023-05-15	Monday	10:00-12:00	Lecture	LR	Breeding program I	Ulls Hus/Sal U	7, 19, 3	
						<b>Hand in individual project draft</b>			
	2023-05-16	Tuesday	9:00-12:00	Group work		Case group work Step 3 (1 <sup>st</sup> )	Organized by students		
	2023-05-16	Tuesday	13:00-14:30	Discussion	ÅO	<b>Check point: Case group work Step 3</b>	Ulls Hus/Sal X		
	2023-05-17	Wednesday	10:00-12:00	Lecture	LR	Breeding program II	Ulls Hus/Sal X	11, 25	
	2023-05-18	Thursday	<b>Kristi himmelfärdsdag (Holiday)</b>						
	2023-05-19	Friday	9:00-16:00			<i>Time for own studies</i>			
						<i>Feedback individual project draft</i>	E-mail		
22	2023-05-22	Monday	13:00-16:00	Group work		Case group work Step 3 (2 <sup>nd</sup> )	Organized by students		
	2023-05-23	Tuesday	10:00-12:00	Lecture	JP	Breeding program: Fur animals	Ulls Hus/Sal U		
			13:00-15:00	Lecture	ÅO	Learning outcomes from international health programs in cats	Ulls Hus/Sal U	40, 41	
	2023-05-24	Wednesday	9:00-12:00	Group work		Case group work Step 3 (3 <sup>rd</sup> )	Organized by students		
	2023-05-25	Thursday	9:00-16:00			<i>Time for own studies</i>			
	2023-05-26	Friday	"Thesis day"						
			15:00			<b>Hand in individual project final</b>			
22	2023-05-29	Monday	13:00			<b>Hand in report: Case group work Step 3</b>			

2023-05-30	Tuesday	9:15-16:00	Report	LR/HR	<b>Presentations: Case group work Step 3</b>	Ulls Hus/Sal R	32a-b
2023-05-31	Wednesday				<b>Hand in application evaluations</b>	Canvas	
2023-06-01	Thursday	9:15-16:00	Report	ÅO	<b>Individual project report and discussion</b>	Ulls Hus/Sal Q	
2023-06-02	Friday	9:15-16:00	Report	ÅO	<b>Individual project report and discussion + Course evaluation</b>	Ulls Hus/Sal X	

**Teachers**

ÅO	Åsa Ohlsson	TB	Tomas Bergström
GA	Göran Andersson	JP	Jussi Perua
ES	Erling Strandberg	MJ	Martin Johansson
KA	Karin Alvåsen	TV	Tytti Vanhala
LR	Lotta Rydhmer	HR	Helena Röcklinsberg
LS	Lena Skånberg		
LK	Linda Keeling		