

Schedule for Genetic Analysis II 7.5 p, BIOR60, 2017

Introduction D215, Thu 16/2, 9⁰⁰ - 10³⁰

Note! The introduction is compulsory

Course book Griffiths AJF, Miller JH, Suzuki DT, Lewontin RC, Gelbart WM.
2015. An introduction to genetic analysis, 11th ed., W. H. Freeman
& Co

Personel	Bengt O Bengtsson (BOB)	Teacher
	Torbjörn Säll (TS)	Teacher
	Bengt Hansson (BH)	Teacher
	Lars Hård (LH)	Guest lecturer
	Alf Ceplitis (AC)	Guest lecturer
	Mats Hansson (MH)	Guest lecturer

Unit 1 – Statistical methods in linkage

Thu 16/2	900-1030	D215	TS	Lecture	Expected values and ML
	1100-1200		TS	Problem set	

Fri 17/2	900-1030	D215	TS	Lecture	Applications to crosses
	1100-1200		TS	Problem set	

Mon 20/2	900-1030	D215	TS	Lecture	Applications to pedigrees
	1100-1230	MH	Lecture	Mapping for breeding and research	
	1330-1430		TS	Problem set	

Tue 21/2	900-1030	D215	TS	Lecture	Association mapping
		1330-1430		TS	Problem set

Unit 2 – Quantitative genetics and marker applications

Wen 22/2	900-1100	D215	TS	Lecture	Covariance and correlation
	1130-1230		TS	Problem set	

Thu 23/2	900-1100	D227	TS	Lecture	Basic model revisited,1
	1130-1230		TS	Problem set	

Fri 24/2	900-1030	D215	TS	Lecture	Basic model revisited,2
	1100-1200		TS	Problem set	

Mon 27/2	900-1030	D215	TS	Lecture	QTL mapping
	1100-1200		TS	Problem set	

Tue 28/2	900-1200	D215	TS	<i>Practical</i>	Association mapping
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Unit 3 – Genes in populations

Wen 1/3	900-10 ³⁰	D215	BH	Lecture	
	1100-1200		TS	Problem set	

Thu 2/3	900-10 ³⁰		D215	BH	Lecture
	10 ⁴⁵ – 11 ³⁰		AC	Lecture	Markers in plant breeding
	1130-1145		AC/TS	Coffee	
	1145-1300		AC	Lecture	Markers in plant breeding

Fri 3/3	900-1030		BH	Lecture	
	1100-1300		TS	Problem set	

Mon 6/3	900-10 ³⁰	D215	BH	Lecture	
	1100-1200		TS	Problem set	

Tue 7/3	830-1400	TS	Visit	Syngenta Landskrona	
	(Note the starting time)				

Wen 8/3	900-1500	D215	LH	Lecture	Genetic algorithms in computing

Unit 4- Special topics in evolutionary genetics and paper discussions

Thu 9/3	900-1030	D215	BOB	Lecture	Sex ratio evolution
	1100-1200		BOB	Distribution of papers	

Fri 10/3	900-1030	D227	BOB	Lecture	Genetic conflicts
	1100-1200		BOB	Demonstration	Models in evolutionary genetics
	1300-1500			Students	Paper discussion

Mon 13/3	900-1030	A261b	BOB	Lecture	Sex and all that
	1100-1200		BOB	Papers	Question time
	1300-1500			Students	Paper discussion

Tue 14/3	900-1200	A205	BOB/TS		Presentation of papers
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Exam period

Wen 15/3 900-1400 Teachers available for questions

Thu 16/3 900-1400

Fri 17/3 900-1400 D205-D215 Exam
