

GBS Core Class 2011

GBS 708: GENETICS/MOLECULAR BIOLOGY

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Recommended text: Molecular Genetics of Bacteria, Snyder and Champness

Time and location: Monday through Friday, 8-10 am, Bevill 170

Week 1

Sep 20:	Nucleic acids & DNA replication in prokaryotes	Michael Niederweis
Sep 21:	Prokaryotic transcription - Initiation	Chuck Turnbough
Sep 22:	Prokaryotic transcription - Elongation & Termination	Chuck Turnbough
Sep 23:	DNA recombination, DNA repair in prokaryotes	Mary-Ann Bjornsti

Week 2

Sep 26:	Prokaryotic translation - Mechanism	David Bedwell
Sep 27:	Prokaryotic translation - Regulation	David Bedwell
Sep 28:	Prokaryotic gene regulation I - Repressors	Michael Niederweis
Sep 29:	Prokaryotic gene regulation II - Activators & Attenuation	Chuck Turnbough
Sep 30:	Prokaryotic gene regulation III – Global mechanisms	Chuck Turnbough

Week 3

Oct 03:	Protein secretion in bacteria	Michael Niederweis
Oct 04:	Reading day	all lecturers
Oct 05:	Exam 1	
Oct 06:	Eukaryotic genome organization	Theresa Strong
Oct 07:	Eukaryotic DNA replication	Xu Feng

Week 4

Oct 10:	Eukaryotic transcription	David Schneider
Oct 11:	RNA processing and stability I – Capping & Splicing	Ching-Yi Chen
Oct 12:	RNA processing and stability II - Turnover	Ching-Yi Chen
Oct 13:	Eukaryotic translation	Sunnie Thompson
Oct 14:	Eukaryotic gene regulation I	Tim Townes

Week 5

Oct 17:	Eukaryotic gene regulation II	Tim Townes
Oct 18:	Diploid Genetics	Peter Detloff
Oct 19:	Mouse Transgenics & Human Gene Mapping	Peter Detloff
Oct 20:	Mendelian inheritance	Bruce Korf
Oct 21:	Reading day	all lecturers

Week 6

Oct 24:	Exam 2	
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