## Revised Lecture & Presentations Schedule – Bio 376 – Fall 2017

Oct. 16 (M)   Drosophila development I. Early development and the maternal genes: determination of anterior posterior polarity. Reading: pp. 38-41 (syncitial specification), 115-116 (morphogen gradients), 277-293. VIDEO: Drosophila embryogenesis.   Oct. 18 (W)   Drosophila II. Maternal genes continued, Zygotic genes: gap, pair-rule and segment polarity genes in anterior-posterior patterning. Homeotic selector genes. Reading: pp. 284-303.     Oct. 20 (F)   FALL HOLIDAY   The Homeotic Complex/Hox genes: Conservation of anterior/posterior pattern formation, evolution via changes Hox gene number & expression. Reading: pp. 301-303, 402-404, 789-792.     Oct. 25 (W)   Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).     PRIMARY LITERATURE PRESENTATION/DISCUSSION 1 (attendance required) Reed et al., 2008 article     Oct. 30 (M)   C. elegans early development and cell specification. Reading: pp. 265-273.     Nov. 1 (W)   Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer', primary embryonic induction. Reading: pp. 343-348.     Nov. 3 (F)   PRIMARY LITERATURE PRESENTATION/DISCUSSION 2 (attendance required) Misale et al., 2012 article     Nov. 6 (M)   Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.     Nov. 8 (W)   Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509.     Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123-1124); Chilton, 2006.     Nov. 10 (F)   Second HOURLY EXAM     Nov. 15 (W)   Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509-511.     Nov. 20 (M)   INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)     Nov. 27 (M)   Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).     Nov. 29 (W)   INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)     Dec. 16 (W)   Evolution and development (Evo-devo) II.     Evolution and de	Oct. 13 (F)	FIRST HOURLY EXAM				
polarity genes in anterior-posterior patterning. Homeotic selector genes. Reading: pp 284-303.  Oct. 20 (F) FALL HOLIDAY  Oct. 23 (M) The Homeotic Complex/Hox genes: Conservation of anterior/posterior pattern formation, evolution via changes Hox gene number & expression. Reading: pp. 301-303, 402-404, 789-792.  Oct. 25 (W) Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).  Oct. 27 (F) Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).  Oct. 27 (F) Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).  Oct. 30 (M) C. elegans early development and cell specification. Reading: pp. 265-273.  Nov. 1 (W) Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer,' primary embryonic induction. Reading: pp. 343-348.  Nov. 3 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article  Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123-1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511-513 (differential survival).  Nov. 15 (W) Programmed cell death / apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509-511.  Nov. 7 (F) Programmed cell death / apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 27 (M) Cancer and developmental biology II. Meore cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)	Oct. 16 (M)	determination of anterior-posterior polarity. Reading: pp. 38-41 (syncitial specification), 115-116 (morphogen gradients), 277-293. VIDEO: <i>Drosophila</i> embryogenesis.				
Oct. 23 (M) The Homeotic Complex/Hox genes: Conservation of anterior/posterior pattern formation, evolution via changes Hox gene number & expression. Reading; pp. 301-303, 402-404, 789-792.  Oct. 25 (W) Pattern formation in tetrapod limb. Reading; pp. 613-644 (most of Chapter 19).  Oct. 27 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 1 (attendance required) Reed et al., 2008 article Oct. 30 (M) Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer,' primary embryonic induction. Reading; pp. 343-348.  Nov. 3 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading; pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123-1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511-513 (differential survival).  Nov. 15 (W) Programmed cell death/ apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509-511.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progress						
formation, evolution via changes Hox gene number & expression. Reading: pp. 301-303, 402-404, 789-792.  Oct. 25 (W) Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).  Oct. 27 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 1 (attendance required) Reed et al., 2008 article  Oct. 30 (M) C. elegans early development and cell specification. Reading: pp. 265-273.  Nov. 1 (W) Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer,' primary embryonic induction. Reading: pp. 343-348.  Nov. 3 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article  Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123-1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511-513 (differential survival).  Nov. 15 (W) Programmed cell death/ apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509-511.  Nov. 17 (F) Programmed cell death/ apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and development Biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer dur	Oct. 20 (F)					
Oct. 27 (F) Cot. 30 (M) Cot. 3	Oct. 23 (M)	formation, evolution via changes Hox gene number & expression. Reading: pp.				
et al., 2008 article  Oct. 30 (M)  C. elegans early development and cell specification. Reading: pp. 265-273.  Nov. 1 (W)  Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer,' primary embryonic induction. Reading: pp. 343-348.  Nov. 3 (F)  PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article  Nov. 6 (M)  Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W)  Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123-1124); Chilton, 2006.  Nov. 10 (F)  SECOND HOURLY EXAM  Nov. 13 (M)  Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511-513 (differential survival).  Nov. 15 (W)  Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509-511.  Nov. 17 (F)  Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M)  INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 27 (M)  Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W)  INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F)  Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M)  Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W)  INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F)  Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W)  Evolution and development (Evo-devo) III.  Dec. 15 (F)  Lecture catch-up/review [last day of classes]	Oct. 25 (W)	Pattern formation in tetrapod limb. Reading: pp. 613-644 (most of Chapter 19).				
Nov. 1 (W) Cell-cell interactions in vertebrate development: Spemann & Mangold and the 'organizer,' primary embryonic induction. Reading: pp. 343-348.  Nov. 3 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article  Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death / apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death / apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 23-25 THANKSGIVING HOLIDAY  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Evolution and development (Evo-devo) II.  Dec. 11 (M) Evolution and development (Evo-devo) III.  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]	Oct. 27 (F)	PRIMARY LITERATURE PRESENTATION / DISCUSSION 1 (attendance required) Reed				
'organizer,' primary embryonic induction. Reading: pp. 343-348.  Nov. 3 (F) PRIMARY LITERATURE PRESENTATION / DISCUSSION 2 (attendance required) Misale et al., 2012 article  Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]	Oct. 30 (M)	C. elegans early development and cell specification. Reading: pp. 265-273.				
et al., 2012 article  Nov. 6 (M) Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.  Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death / apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death / apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 23-25 THANKSGIVING HOLIDAY  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 1 (W)					
Nov. 8 (W) Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]	Nov. 3 (F)					
Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.  Nov. 10 (F) SECOND HOURLY EXAM  Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in C. elegans. Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 23-25 THANKSGIVING HOLIDAY  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]	Nov. 6 (M)	Molecular mechanisms of vertebrate axis formation. Reading: pp. 348-364.				
Nov. 13 (M) Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in <i>C. elegans</i> . Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) Individual Literature Presentations (attendance required)  Nov. 23-25 Thanksgiving holiday  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) Individual Literature Presentations (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) Individual Literature Presentations (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 Finals	Nov. 8 (W)	Developmental Neurobiology I. Axonal growth & guidance. Reading: pp. 488-509. Articles: Tessier-Lavigne & Goodman, 1996 (pp. 1123–1124); Chilton, 2006.				
substances. Reading: pp. 511–513 (differential survival).  Nov. 15 (W) Programmed cell death/apoptosis I. Roles of PCD in normal development, genetics of PCD in <i>C. elegans</i> . Reading: pp. 645-646, 509–511.  Nov. 17 (F) Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.  Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 23-25 THANKSGIVING HOLIDAY  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 10 (F)	SECOND HOURLY EXAM				
Reading: pp. 645-646, 509–511.	Nov. 13 (M)	Developmental Neurobiology II. Neuron-target interactions. Neurotrophic substances. Reading: pp. 511–513 (differential survival).				
Nov. 20 (M) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Nov. 23-25 THANKSGIVING HOLIDAY  Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 15 (W)					
Nov. 23-25  Thanksgiving holiday  Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W)  Individual Literature Presentations (attendance required)  Dec. 1 (F)  Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M)  Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W)  Individual Literature Presentations (attendance required)  Dec. 8 (F)  Evolution and development (Evo-devo) I.  Dec. 11 (M)  Evolution and development (Evo-devo) II. [Class literature presentation (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W)  Evolution and development (Evo-devo) III.  Dec. 15 (F)  Lecture catch-up/review [last day of classes]  Dec. 18 - 22  Finals	Nov. 17 (F)	Programmed cell death/apoptosis II. Molecular mechanisms. Same as above.				
Nov. 27 (M) Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 20 (M)	INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)				
cycle regulation. Reading: Gilbert website, supplement(s).  Nov. 29 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 23-25	THANKSGIVING HOLIDAY				
Dec. 1 (F) Cancer and developmental biology III. Reading: same as for previous  Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 27 (M)	Cancer and developmental biology II. More cancer molecular mechanisms, cell cycle regulation. Reading: Gilbert website, supplement(s).				
Dec. 4 (M) Stem cells, cellular 'potency,' human iPSCs. Reading: Chapter 5 (parts, TBD)  Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Nov. 29 (W)	1				
Dec. 6 (W) INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)  Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Dec. 1 (F)					
Dec. 8 (F) Evolution and development (Evo-devo) I.  Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Dec. 4 (M)					
Dec. 11 (M) Evolution and development (Evo-devo) II. [CLASS LITERATURE PRESENTATION (attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	Dec. 6 (W)	INDIVIDUAL LITERATURE PRESENTATIONS (attendance required)				
(attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive loss of function in a limb enhancer during snake evolution.]  Dec. 13 (W) Evolution and development (Evo-devo) III.  Dec. 15 (F) Lecture catch-up/review [last day of classes]  Dec. 18 - 22 FINALS	. ,	1				
Dec. 15 (F) Lecture catch-up/review [last day of classes] Dec. 18 - 22 FINALS	Dec. 11 (M)	(attendance required) - How snakes lost their limbs: Kvon et al., 2016 - Progressive				
Dec. 15 (F) Lecture catch-up/review [last day of classes] Dec. 18 - 22 FINALS	Dec. 13 (W)					
	Dec. 15 (F)	-				
	Dec. 18 - 22	FINALS				
Dec. 20 (W)   Final Exam - 8:00 - 10:00 AM	Dec. 20 (W)	FINAL EXAM - 8:00 - 10:00 AM				