**SYLLABUS**

**CDB 582/583 Organogenesis: Stem Cells to Regenerative Biology**

**Tue/Thur, 1:00-3:00 PM (See locations below)**

**Course Director: Deneen Wellik, Ph.D.**

**(Co-Directors: Jason Spence, PhD and Marina Pasca di Magliana, PhD)**

**Teaching Assistant: Mike Scales**

**Suggested workbook: The Grant Application Writer’s Workbook**

**(Russel and Morrison, 2016 version,** http://www.grantcentral.com/workbooks/**)**

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| **Date & Location** | **Topic & Lecturer** |
| 1/5/17  THSL 2901 | (Syllabus, Handouts)  Course Introduction and Format, Proposal Writing (Deneen Wellik)  Mike Scales,*“Systems and Tools”* |
| 1/10/17  BSRB 2515 | Jason Spence *“Stem Cells – An Introduction”*  Gary Smith, *“Pluripotent Stem Cells for Disease Modeling:  hESCs and hiPSCs”* |
| 1/12/17  THSL 2901 | Jason Spence, *”Directed Differentiation of ES/iPS and Organoids”*  Mike C |
| 1/17/17  BSRB 2515 | Ivan Maillard, *“Hematopoietic stem cells”*  Gloria |
| 1/19/17  THSL 2901 | Daniel Lucas, *"Regulation of the hematopoietic stem cell niche"*  Gloria |
| 1/24/17  BSRB 2515 | Deneen Wellik, *“Mesenchymal Stem Cells and Regional Specificity”*  Naoko |
| 1/25/17 | Specific Aims Page writing assignment due 5:00pm. |
| 1/26/17  THSL 2901 | Proposal Discussion  Please bring 2 printed ‘clean copies’ of your proposal to class. |
| 1/31/17  BSRB 2515 | Roman Giger, *“Axon regeneration in the injured adult mammalian central nervous system”*  Betsy |
| 2/2/17  THSL 2901 | Linda Samuelson, *“Adult Gastrointestinal Stem Cells”*  Betsy |
| 2/7/17  BSRB 2515 | Sunny Wong, *“Stem cells in the skin epidermis:  current understandings & controversies”* Kyriel |
| 2/9/17  THSL 2901 | Lei Lei, *“Tackling 'oogonial stem cells' through single-cell lineage tracing”* Kunal |
| 2/14/17  BSRB 2515 | Jun Wu, *“Molecular regulation and therapeutic potential of brown and beige fat”* Devika |
| 2/15/17 | Specific Aims Page writing assignment due 5:00pm. |
| 2/16/17  THSL 2901 | Proposal Discussion  Please bring 2 printed ‘clean copies’ of your proposal to class. |
| 2/21/17  BSRB 2515 | Marina Pasca DiMagliano, *“Mesenchymal stem cells in the adult pancreas and in pancreatic disease”* Devika |
| 2/23/17  THSL 2901 | Ben Allen, Hh in Lingual and olfactory epithelia  Emily |
| 3/7/17  BSRB 2515 | Ariella Shikanov, “ *Engineering the ovarian follicle environment* ”  Kunal |
| 3/9/17  THSL 2901 | Lisa Larkin, *“Utilization of Skeletal Muscle Tissue Engineering for Repair of Volumetric Muscle Loss”*  Mike C |
| 3/14/17  BSRB 2515 | Stacey Huppert, Cincinnati Children’s, *“Molecular factors regulating hepatic cell identity”* Kyriel |
| 3/13/17 | Specific Aims Page writing assignment due 5:00pm. |
| 3/16/17  THSL 2901 | Proposal Discussion  Please bring 2 printed ‘clean copies’ of your proposal to class. |
| 3/21/17  BSRB 2515 | Instructors available in class for help |
| 3/22/17 | Final Proposal working draft of Specific Aims page due 5:00pm |
| 3/23/17  THSL 2901 | Proposal Discussion |
| 3/28/17  BSRB 2515 | Ed Goldman, *“Nothing Beats a Good Pair of Genes (or Jeans): Stemming the Debate about Stem Cell Research”* |
| 3/30/17  THSL 2901 | Bev Yashar, *“Ethical Considerations of Stem Cell Research”*  SAs due 4/1, 5 p.m. |
| 4/4/17  BSRB 2515 | Student Presentations |
| 4/6/17  THSL 2901 | Student Presentations |
| 4/11/17  BSRB 2515 | Student Presentations |
| 4/13/17  THSL 2901 | Student Presentations  CRITIQUES DUE 4/18 by 5pm |
| 4/25/17  BSRB 2515 | Final proposal due 4/25, 5 p.m. |