

BC225/NB230 Chromatin Structure and Function, Winter 2016

Monday 11:00-12:30 (~12:15)

Thursday 9:00-10:30 (~10:15)

Location: Room 3120 in Bio Sci 3 / BC Conference room (Med Sci I D240)

I. Basic mechanisms and regulation of chromatin structure organization

M 1/4/16 (1) Introduction: Chromatin architecture

histone modifying enzymes (Sassone-Corsi-1): **(Med Sci I D240)**

W 1/6/16 (2) BC Seminar Bing Ren, UC San Diego

Th 1/7/16 (3) ATP-dependent chromatin remodeling (Steffan-1): **(Bio Sci 3)**

M 1/11/16 (4) Nuclear organization (Yokomori-1): **(Med Sci I D240)**

II. Epigenetic regulation of cellular functions

Th 1/14/16 (5) Epigenetic regulation of transcription

Chromatin changes in germ lines (Jonathan Gaucher)(Sassone-Corsi-2): **(Med Sci I D240)** ___#1_____

~~M 1/18/16~~ No class. Holiday

W 1/20/16 (6) BC Seminar Sha Sun, UCI Dev& Cell

Th 1/21/16 (7) Chromatin - Transcriptional initiation and elongation

Chromatin and DNA replication (Steffan-2): **(Bio Sci 3)**___#2_____

M 1/25/16 (8) **Higher-order chromatin structures I (Ali Mortazavi):**___Michael-1 ___#3_____

Th 1/28/16 (9) Chromatin regulation in DNA repair (Yokomori-2): **(Med Sci I D240)**___Eva-1 #4_____

M 2/1/16 (10) Chromatin Regulation in Stem Cells in Development (Dai-1): **(Med Sci I D240)**___Isabella-1 ___#5_____

Th 2/4/16 (11) Chromatin Regulation in Stem Cells in Cancer (Dai-2): **(Med Sci I D240)**___Hsiaochen-1 ___#6_____

M 2/8/16 (12) "microRNAs (miRs) - Tiny players with novel functions in disease" (Special Lecture: Irene Pedersen)

___Isabella-2 ___#7_____

Th 2/11/16 (--) **Abcam West Coast Epigenetics Day**

<http://www.abcam.com/events/west-coast-epigenetics-day>

Outside Speakers: Peter Fraser (Babraham Int. UK), Romain Barres (Univ. Copenhagen, Denmark), Hillary Collier (UCLA), Albert La Spada (UCSD), Eric Verdin (Gladstone Int., S.F.); UCI Speakers: Qing Yang, Feng Qiao, Selma Masri, Karen Brami-Cherrier, Janine Kwapis, Irene Munk Pedersen, Akanksha Singh-Taylor, Rob Spitale

~~M 2/15/16~~ No class. Holiday

III. Chromatin regulation in human health and disease

W 2/17/16 (13) BC Seminar Marcelo Wood "The role of nucleosome remodeling in synaptic plasticity, memory, and intellectual disability disorders"

Th 2/18/16 (14) Histone modifying enzymes in learning and memory (Wood-1): **(Bio Sci 3)** ___Michael-2 ___#8_____

M 2/22/16 (15) The role of histone modifying enzymes in addiction (Wood-2):_ **(Bio Sci 3)**___Sussie-1 ___#9_____

W 2/24/16 (16) BC Seminar Rob Spitale/UCI (Pharm Sci)

Th 2/25/16 (--) No class

~~M 2/29/16~~ (--) No class

Th 3/3/16 (17) **DNA and RNA modifications in learning and memory (Tim Bredy)** **(Bio Sci 3)**___Sussie-2 ___#10_____

M 3/7/16 (18) Chromatin abnormalities and human disease (Steffan-3): (Htt, etc.) **(Bio Sci 3)**___Eva-2_#11_____

W 3/9/16 (19) BC Seminar Paolo Sassone-Corsi (BC)

Th 3/10/16 (20) Chromatin abnormalities and human disease (Yokomori-3) (cWohesinopathies, FSHD): **(Med Sci I D240)**

___Hsiaochen-2 ___#12_____