Program of the 2022 (6th) Telluride Workshop on Chromatin Structure and Dynamics

Organizers: Yawen Bai & Michael Poirier

TSRC Hosts: Cindy Fusting (970) 708-5069; Mark Kozak, (970) 708-4426

Location: Telluride Intermediate School, 725 West Colorado Ave Telluride CO 81435

Saturday, June 25, 2022

5:00-6:30 pm Meet & Greet

Location: Phoenix Bean (221 W Colorado Ave)

June 26-30, 2022

(30 min talk + 15 min questions/discussions; questions are encouraged during talks)

Sunday, June 26, 2020

7:30-8:45 am Breakfast at TSRC

8:45-9:00 am Welcome (TSRC staff)

Structures of nucleosome recognition (I)

9:00-9:45 am Structural studies of chromatin complexes

Song Tan

9:45-10:30 am (TBD: something about structure of chromatin complexes)

Mario Halic

15 min break

10:45-11:30 am Structural visualization of chromatin regulatory complexes using Cryo-EM

Yuan He

Lunch on your own

Afternoon Hiking/free time

Structures of nucleosome recognition (II)

7:30-8:15 pm Structural basis of paralog-specific KDM2A/B nucleosome recognition

Robert McGinty

8:15-9:00 pm Structural insights into the recruitment and regulation of gene silencer PRC2

Vignesh Kasinath

15 min break

9:00-9:45 pm Mechanism of acetylation of nucleosomal H4 by NuA4, the position matters

Zhucheng Chen

Monday June 27, 2022

8:00-9:00 am Breakfast

Hiking/Free time

Lunch on your own

Nucleosome recognition by pioneer transcription factors

1:00-1:45 pm	Mechanistic study of binding and nucleosome invasion by pioneer factors Lucy Bai
1:45-2:30 pm	Strategies for DNA readout in a chromatinized genome Alicia Michael
	15 min break
2:45-3:30 pm	Dynamics of transcription factor invasion into nucleosomes. Michael Poirier
3:30-4:15 pm	Structural mechanisms of native-nucleosome recognition by pioneer factors Yawen Bai
	15 min break
4:30-4:45 pm	Impact of torque and TF-binding on nucleosome investigated by molecular dynamics simulation and SAXS Hidetoshi Kono
4:45-5:30 pm	Gaining access: Dynamic mechanisms for entering and reshaping the chromatin landscape Beat Fierz
7:00-8:00 pm	Group dinner (place TBD)

Tuesday June 28, 2022

8:00-9:00 am Breakfast

Chromatin assembly and dynamics (I)

9:00-9:45 am Illuminating the dynamic remodeling of nucleosomes

Sebastian Deindl

9:45-10:30 am A novel face of a single alpha helix in chromatin assembly

Mair Churchill

15 min break

10:45-11:30 am Dissecting the complex interaction network of HP1α with NMR spectroscopy

Galia Debelouchin

Lunch on your own

Hiking/Free time

6:30-7:30 pm Town Talk

Location: Telluride Transfer Warehouse (201 S Fir Street)
Speakers: Moh El-Naggar, Ron Naaman, and Dave Waldeck

Chromatin assembly and dynamics (II)

Jeffery Hansen

8:30-9:15 pm Structural dynamics of the nucleosome during transcription elongation

Hitoshi Kurumizaka

15 min break

9:30-10:15 pm Single-molecule studies on chromatin fiber

John van Noort

Wednesday June 28, 2022

8:00-9:00 Breakfast

Lunch on your own

Hiking/Free time

Chromatin structure and dynamics

1:00-1:45 pm	Unraveling mitotic chromosome architecture by cryo-electron tomography Maia Azubel
1:45-2:30 pm	In situ studies of chromatin organization by cryo-ET Lu Gan
	15 min break
2:45-3:00 pm	Folding intermediates as a model for in vivo chromatin organization Bing Zhang
3:00-3:45 pm	Super resolution imaging of chromatin structure and dynamics in health and disease. Melike Lakadamyali
	15 min break
4:00-4:45 pm	Riding the tail of the dragon: do R-loops play a role in chromatin structure in vivo? Yamini Dalal
4:45-5:30 pm	Chromosome structural dynamics for cell fate decision making Jin Wang
5:30-7:30 pm Location:	All-Telluride Science Picnic (Families Welcome!) Tent behind Telluride Science Workshop Facility (725 W Colorado)

Thursday June 30, 2022

8:00-9:00 am Breakfast at TSRC

9:00 am Informal gather with directed discussion based on feedback during the meeting