

Department of Oncological Sciences

FALL SEMESTER 2021

CANCER GENOMICS - ONCSC 6700-001 [class number 19951]

Advanced Seminar - Special Topics Course – 2 Credit Hours

Second Half - Session 3 (half semester course)

Organizers: Jay Gertz, PhD & K-T Varley, PhD

Meeting Dates: October 19, 2021 – December 7, 2021

Time: Tuesdays / 3:00 - 5:00PM

Location: Huntsman Cancer Institute

Room: HCI Research South-3C* Conference Room

Enrollment cap: 10 students

Genomic assays have revolutionized our understanding of the molecular defects that occur in cancer genomes. This knowledge has shaped our understanding of how tumors arise, revealed extensive heterogeneity within and between patients' tumors, influenced our treatment strategies, and led to new insights about the basic biology of transcription regulation. This course will introduce students to genomic assays that can be used to study cancer.

Emphasis will be placed on understanding the capabilities and limitations of different genomic methods and exploring how the techniques can be applied to address new questions. This is an advanced seminar course with a focus on primary literature, student presentations, and project-based learning.

Prerequisite: This course is designed for graduate students that have completed their first year.

**Masks currently required @ 3' distance - please refer to:*

<https://pulse.utah.edu/site/HCI/HCICOVID19/Pages/Conference-Rooms.aspx>

