

22nd Summer Institute in Statistical Genetics (SISG)
Module 16: Cancer Genetic Counseling and Interpretation

July 24, 2017

Assigned readings:

- *Bennett JGC 2008 - Standardized Human Pedigree Nomenclature*
- *NSGC Position Statements*
- *Couch Jama Oncology 2017 - Breast cancer risk and cancer panels*

8:00 Check-in/Coffee

Session 1

8:30-9:00 Introductions/expectations Bennett/Amendola

9:00-9:30 Introduction to genetic counseling Amendola

9:30-10:00 The practical family history Bennett

10:00-10:30 Break

Session 2

10:30-11:15 Review of hereditary cancer Amendola

11:15-noon Taking a cancer focused family history Bennett

Noon-1:30 pm Lunch

Session 3

1:30-2:30 Introduction to cancer genetic testing Amendola

2:30-3:00 Counseling issues in cancer genetics Bennett

3:00-3:30 Break

Session 4

3:30-4:30 In Depth: hereditary colon cancer syndromes Bennett

4:30-5:00 Wrap-up/lessons learned Bennett/Amendola

5:00-6:00 Mixer

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July 25, 2017

Assigned Readings:

- *King et al 2014, Population Screening for BRCA*
- *Richards et al 2015, ACMG Variant Interpretation Recommendations*
- *Lalli et al 2015, Pediatric ACC*
- *Raskind et al 2017, LiFraumeni Screening Commentary*

8:00 Check-in Coffee

Session 5

8:30-9:30 Introduction to variant interpretation Amendola

9:30-10:00 Practical variant interpretation Amendola

10:00-10:30 Break

Session 6

10:30-11:15 In Depth: Hereditary breast cancer syndromes Bennett

11:15-noon The lived experience of hereditary breast cancer Bennett

Noon-1:30pm Lunch

Session 7

1:30-2:15 TP53: Guardian of the Genome case series Amendola

2:15-3:30 TP53: Case series Bennett

3:00-3:30 Break

Session 8

3:30-4:00 Socratic interview: Population Screening Bennett/Amendola

4:00-4:30 Case studies/wrap up Bennett

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July 28, 2017

Assigned readings:

- *Imai et al 2010, DTC Concordance*
- *Nielsen et al 2017, DTC Behavior Changes*
- *Jain et al 2016, Tumor Genomic Profiling*

8:00 Check-in/Coffee

Session 9

8:30-9:00 Changing landscape for hereditary cancer Amendola/Bennett

9:00-10:00 Introduction to genomic sequencing Amendola

10:00-10:30 Break

Session 1

10:30-11:15 Returning exome sequencing results Amendola

11:15-11:50 Would you want to know? Bennett

11:50-noon Online evaluation Bennett/Amendola

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