



Course Content

Week 1: Genomic Medicine Gets Personal

- Overview of the Course: Navigating the World of Genomic Medicine [Haddad]
- Introductory Remarks to the Course by Congresswoman Debbie Wasserman Schultz: Putting a Human Face on the Complexity of Genomics [Wasserman Schultz]
- The Human Genomics Landscape: Bringing Genomic Medicine into Focus [Green]

Week 2: Theme 1: The Clinic: Making Precision Medicine a Reality Through Genomics (Part 1: Chromosomal and Mendelian Disorders)

- A More Precise Diagnosis of Chromosomal and Mendelian Disorders [Saadeh]

Week 3: Theme 1: The Clinic: Making Precision Medicine a Reality Through Genomics (Part 2: Prenatal Care)

- Changing the Way Prenatal Diagnosis and Screening Are Done [Ghidini]

Week 4: Theme 1: The Clinic: Making Precision Medicine a Reality Through Genomics (Part 3: Cancer Care)

- Changing the Landscape of Cancer Care Through Genomics [Weiner]
- Targeted Therapy for Melanoma [Atkins]
- Managing Hereditary Breast Cancer [Isaacs]

Week 5: Theme 2: The Diagnostic Lab: Making Precision Diagnosis With Next Generation Tools (Part 1)

- Novel Approaches to Cytogenetic Diagnosis [Meck]
- Molecular Genetics and Next Generation Sequencing [Haverfield]

Week 6: Theme 2: The Diagnostic Lab: Making Precision Diagnosis With Next Generation Tools (Part 2) and

Theme 3: Minding The Business of Genomics

- Pharmacogenetics [Johnson]
- Handling Big Data [Mays]
- A New Business Model in Medicine [Wathieu]

Week 7: Theme 4: Genomics and The Patient, The Family and The Society

- A Round Table Discussion addressing Counseling, Ethical and Legal Issues In The Genomic Era [FitzGerald, Peshkin, Zimmet, and Haddad]

Week 8: Theme 5: Looking to the Future of Medicine in the Genomic Era

- The Time of Our Lives [Morton]
- Personalized Medicine: Changing the Landscape of Medicine [Clarke]
- Conclusion & Looking Ahead [Haddad]