

GENOMICS IN CANCER THERAPY

16:718:603

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Course Description: This 3-credit course focuses on the latest development in personalized cancer therapy and implementation of genomic and precision medicine approaches. A literature-based seminar course combined with patient-oriented bioinformatics and hospital sessions focused on illustrating how cancer patients are diagnosed and how treatments are established. Participants are required to give one journal club presentation each. Grading is based on attendance, presentation and participation (50%), mid (25%) and final (25%) exams. The next offering of this course will be Spring 2020.

Topics
Tumor Types
Tumor Heterogeneity
Therapeutic Resistance Mechanisms in Tumors
Targeted Therapies
Deregulated Genomic Stability
Cancer Metabolism
Cancer Stem Cells