



UNIVERSITÀ DEGLI STUDI
DEL SANNIO Benevento

DST

DIPARTIMENTO DI SCIENZE E TECNOLOGIE

Dottorato di Ricerca in Scienze e Tecnologie per l'Ambiente e la Salute



GIORNATE SCIENTIFICHE DEL DST



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Future perspective to precision medicine in endometrial cancer

MERCOLEDÌ 8 MAGGIO 2019 ORE 13:00

Sala Riunioni del DST

Via F. de Sanctis, Benevento

ABSTRACT

Endometrial cancer is the most frequent gynecologic malignancy affecting women in developed countries. Based on differences in histology and clinical outcome, the disease has been divided into two types. Type I is the most frequent, usually endometrioid adenocarcinomas and associated to previous long-term unopposed estrogen exposition. Type II, affecting older women and associated to serous adenocarcinoma arising from atrophic endometrium. Although Type II tumors represent about 15% of all endometrial carcinomas, it accounts for 40% of cancer related deaths. Recent reports have recommended the use of systemic adjuvant therapy for type II tumors. However, the clinic-pathologic features may not be so accurate to classify the disease. The use of high throughput technologies for genomic/transcriptomic analyses allowed a better understanding on endometrial cancer biology. This new scenario has refined the classification of the disease and opened a new paradigm to optimize endometrial cancer treatment. In this lecture I'll cover how the molecular/genomic classification in TCGA endometrial cancer samples can be used in clinical practice to guide treatment.