

UTRGV SCHOOL OF MEDICINE RESEARCH SEMINAR



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Epigenetic roles in the malignant progression of melanoma and targeted-therapy resistance

Epigenetic aberrations cause the activation of full range of oncogenic potentials; as such evidenced in permissive chromatin in cancer cells creates a state of epigenetic plasticity that can activate oncogenic pathways driving cancer development. Here, I will discuss the oncogenic roles of the chromatin modifying enzymes of histone acetyltransferase P300/CBP and a multiprotein complex of gene transcription silencer CoREST complex which contains histone deacetylase and demethylase activities in the malignant progression of melanoma. I will also present experimental data suggesting that those histone modifying enzymes may be attractive therapeutic targets for treating melanoma patients with targeted therapy resistance.

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