

رتبه دوم ایرانی مقیم خارج
Second Winner - Iranian Researcher Resident Abroad



Project Title:

Elucidation of Molecular Mechanism of Cancer

عنوان طرح:

توضیح مکانیزم مولکولی سرطان

Researcher:

Ramin Sheikhattar (Ph.D.)

محقق:

دکتر رامین شیخ عطار

Country of Residence:

U. S. A

کشور مقیم:

آمریکا

University:

The Wistar Institute

دانشگاه:

انستیتو ویستار

Abstract:

The researcher and his team have focused on the biochemical isolation and functional characterization of multiprotein complexes involved in modulation of transcription and chromatin structure.

Mutations in the components of these chromatin modifying complexes are suspected to lead to severe developmental defects (ATRX, MeCP2) and cancer development (SNF5, CBP).

The research has revealed that such regulatory complexes are not only involved in conveying information from the signal transduction pathways but also are frequent targets of cancer-causing mutations. The on-going projects are characterisation of human Imitation Switch complexes and their functional interaction with higher order chromatin structure and elucidation of the function of brca 1 and brca 2 proteins. He has contributed to more than 28 peer-reviewed papers and chapters in three books.