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Translational Medicine

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Dr Arun K Rishi was born in Meerut India After the initial college education in India Dr Rishi obtained a MSc in Biochemistry from University College London UK and a PhD in Molecular Biology from Imperial College of Science Technology and Medicine London UK He subsequently trained as a postdoctoral fellow at MIT and the Brigham and Womens Hospital Harvard University Medical School Boston USA and later held faculty positions at the Pulmonary Center Boston University Boston and University of Maryland Cancer Center Baltimore Maryland USA Dr Rishi is currently a professor at the Karmanos Cancer Institute and the Oncology Department of the Wayne State University School of Medicine Detroit Michigan USA Dr Rishi's research interests focus on studying pathways and molecular mechanisms regulating cell growth/survival and death/apoptosis in cancer cells Dr Rishi identified and characterized a novel apoptosis inducing protein termed CARP1/CCAR1 that regulates apoptosis induced by diverse agents including an apoptogenic retinoid CD437 Adriamycin Etoposide but not by chemotherapy agents such as Cisplatin CARP1 also regulates apoptosis by EGFRs and protein kinase A CARP1 is a phosphoprotein that functions in part by interacting with multiple regulators of cell growth and apoptosis signaling Data from biopsies of human breast cancers and NonHodgkin's Lymphomas NHL suggest an inverse correlation of CARP1 expression with the grades of the tumors indicating a potential prognostic value and a tumor suppressor property of CARP1 Our ongoing studies are focused to further elucidate the molecular mechanisms of adriamycin and EGFRs signaling that target CARP1 and CARP1 interactions with regulators of cell growth and apoptosis Our longterm goal is to exploit this knowledge for development of strategies to inhibit a <u>strategies to inhibit a strategies including the drugresistant cancers</u>.



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Research Interest

Pathways and molecular mechanisms regulating cell growth/survival and death/apoptosis in cancer cells.

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