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32. Chemical and Biological Effects of Radiation, Smelling Nuclear Bullshit 30. Cancer 2 Intro to Cell Signaling Cancer Biology And The Nuclear

Introduction. "Nuclear envelope (NE) defects have been linked to cancer biology since the mid-1800s, but it was not until the last few years that we have begun to understand these historical links and to realize that there are myriad ways that the NE impacts on

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These functions already provide some mechanisms for NE influences on cancer biology, but work in the past few years has elucidated many others. Lamins and many recently identified NE transmembrane proteins (NETs) have been now shown to function in DNA repair, regulation of cell cycle and signaling, apoptosis, cell migration in metastasis, and nuclear architecture and morphology.

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cancer biology since the mid-1800s, but it was not until the last few years that we have begun to understand these historical links and to realize that there are myriad ways that the NE impacts on tumorigenesis. The NE is a complex double membrane system that encloses the genome while providing structural support through the intermediate filament lamin polymer and regulating protein/ mRNA trafficking and ...

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The six cancer-linked nucleoporins and their translocation partners are shown with major

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structural domains, and the structure of the resulting fusion proteins found in cancer cells. (a) Tpr and fusions with HGFR, FGFR1, and NTrk1. (b) Nup214 and fusions with Dek, Set, SQSTM1, and Abl1.

Cancer and the Nuclear Envelope Complex

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Cancer Biology and the Nuclear Envelope, 2014 Recent Advances May Elucidate Past Paradoxes Advances in Experimental Medicine and Biology Series, Vol. 773 Coordinators: Schirmer Eric C., de las Heras Jose I.

Cancer Biology and the Nuclear Envelope

Apoptosis (from Ancient Greek *apoptosis*, *apóptōsis*, "falling off") is a form of programmed cell death that occurs in multicellular organisms. Biochemical events lead to characteristic cell changes and death. These changes include blebbing, cell shrinkage, nuclear fragmentation, chromatin condensation, chromosomal DNA fragmentation, and global [vague] mRNA decay.

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