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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 and the Nuclear Envelope: Recent Advances ...

Cancer biology and the nuclear
envelope: A convoluted relationship 1.
Introduction. The nuclear envelope (NE)
is a double membrane system that

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includes the nuclear lamina plus hundreds of... 2. History of lamin loss and nuclear shape/volume as prognostic indicators in cancer. Observations of nuclear ...

Cancer biology and the nuclear envelope: A convoluted ...

About the authors "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 tumorigenesis.

Cancer Biology and the Nuclear Envelope - Recent Advances ...

These features include nuclear enlargement and increased nuclear-to-cytoplasmic ratio, nuclear membrane irregularities, hyperchromasia, and abnormal chromatin distribution. As our knowledge about the genetic and epigenetic abnormalities of cancer cells

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has increased in recent decades, the pathophysiologic mechanisms that underlie these morphologic abnormalities remain incompletely understood.

Nuclear Morphology and the Biology of Cancer Cells ...

The relevance of nuclear mechanics in cancer comes from the fact that the nucleus is the largest and stiffest organelle of the cell, dominating the overall cellular mechanical response when cells are subjected to large deformations, for instance, when squeezing through narrow constrictions imposed by ECM fibers and other cells [241,242,255].

The Biology of the Nuclear Envelope and Its Implications ...

Despite many advances in understanding the biology of cancer and its associated molecular changes, the most common and reliable diagnosis of cancer cells in tissue biopsies by

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pathologists still relies on the presence of morphological changes in nuclear structure, i.e., increased size, irregular shape and organization . Nonetheless, the functional consequences of these characteristic changes have yet to be determined; thus, it remains unclear whether the observed morphological changes merely ...

Nuclear Mechanics in Cancer

The Society of Nuclear Medicine and Molecular Imaging (SNMMI) and the American Association for Cancer Research (AACR) have reconvened to cosponsor State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, a conference to be held February 14-17, 2018, at the Manchester Grand Hyatt in San Diego, California.

AACR/SNMMI State-of-the-Art Molecular Imaging in Cancer ...

The overarching goal of the laboratory of Lymphocyte Nuclear Biology is to elucidate the nuclear events driving B

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cell development and transformation. In particular, we explore key nuclear events underlying immunoglobulin gene recombination, DNA damage, and transcription in B cells.

Laboratory of Cancer Biology and Genetics | Center for ...

Nuclear Medicine and Biology publishes original research addressing all aspects of radiopharmaceutical science: synthesis, in vitro and ex vivo studies, in vivo biodistribution by dissection or imaging, radiopharmacology, radiopharmacy, and translational clinical studies of new targeted radiotracers...

Nuclear Medicine and Biology - Journal - Elsevier

"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 tumorigenesis.

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Cancer biology and the nuclear envelope : recent advances ...

"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 tumorigenesis.

Cancer Biology and the Nuclear Envelope eBook by ...

Nuclear Receptor Coregulators in Cancer Biology Coregulators (coactivators and corepressors) occupy the driving seat for actions of all nuclear receptors, and consequently, selective receptor modulator drugs.

Nuclear Receptor Coregulators in Cancer Biology

Selinexor (KPT-33) is a drug that inhibits exportin 1 (XPO1 and CRM1), a nuclear transport protein that shuttles nuclear proteins through the nuclear pore and is

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responsible for the removal of proteins from the nucleus: XPO1 mediates the export of over 220 different cargo proteins, including some growth regulatory proteins and the vast majority of tumor suppressor proteins.

Inhibition of Nuclear Export Protein XPO1 in Cancer ...

Schirmer / de las Heras, Cancer Biology and the Nuclear Envelope, Softcover reprint of the original 1st ed. 2014, 2016, Buch, 978-1-4939-5481-0. Bücher schnell und portofrei

Schirmer / de las Heras | Cancer Biology and the Nuclear ...

Background: The expression of transcriptional factor nuclear factor κ B (NF- κ B) in untreated esophageal cancer specimens from patients who receive preoperative chemoradiation is associated with aggressive clinical biology. We hypothesized that nuclear NF- κ B would define clinical biology even when surgery is used as primary

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therapy.

Clinical Biology of Esophageal Adenocarcinoma after ...

MicroRNAs (miRNAs) act as negative regulators of gene expression in the cytoplasm. Previous studies identified miRNAs associated with the spliceosome. Here we study three breast-derived cell-lines with increased tumorigenicity (from MCF-10A to MCF-7 and MDA-MB-231) and compared their miRNA sequences at the spliceosome fraction (SF). We report that the SF-miRNAs expression, identity, and pre ...

Spliceosome-Associated MicroRNAs Identified in Breast ...

Miami chemists' breakthrough technique enables design at the interface of chemistry and biology 1 hour ago A new directed evolution technique to unlock the potential of xeno-nucleic acids

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