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Epigenetic alterations in the breast: Implications for breast cancer detection, prognosis and treatment

[HTML] nih.gov

AM Dworkin, THM Huang, AE Toland - Seminars in cancer biology, 2009 - Elsevier

... ER β is encoded by ESR2 and is known to inhibit the proliferation and invasion ... Other post-translational modifications of ER α such as phosphorylation, ubiquitination, glycosylation, and acetylation ... A number of drugs including DNMT inhibitors and HDAC inhibitors are being ...

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Estrogen receptor alpha: impact of ligands on intracellular shuttling and turnover rate in breast cancer cells

[PDF] researchgate.net

G Leclercq, M Lacroix, I Laïos... - Current cancer drug ..., 2006 - ingentaconnect.com

... Identification of E3 ubiquitin ligases (ie RSP-5/RPF1, E6-AP...) as ... Polyubiquitination of ER provokes the translocation of the receptor from the promoter ... immobilization, blocking thereby subsequent transcription of target genes since polyubiquitinated receptors are incompetent ...

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Breast cancer endocrine resistance: how growth factor signaling and estrogen receptor coregulators modulate response

[HTML] aacrjournals.org

R Schiff, S Massarweh, J Shou, CK Osborne - Clinical Cancer Research, 2003 - AACR

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[HTML] Implication of proteasome in estrogen receptor degradation

[HTML] wiley.com

A El Khissiin, G Leclercq - FEBS letters, 1999 - Wiley Online Library

... ie chloroquine, NH 4 Cl, bafilomycin and monensin which all inhibit cathepsin B ... and antiestrogenic induced degradative process, raising the question of the selective inhibition by CHX ... other factors [45], or its interaction via a more generalized ubiquitin-independent tagging ...

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Name of Journal: *World Journal of Clinical Oncology*

Manuscript NO: 39548

Manuscript Type: Minireviews

Polyubiquitination inhibition of estrogen receptor alpha and its implications in breast cancer

Tecalco-Cruz AC *et al.* Polyubiquitination inhibition of estrogen receptor in breast cancer

Abstract

Estrogen receptor alpha (ER α) expression and its activity are increased in more than 70% of the cases of breast cancer. Nuclear activity of ER α , a transcriptional regulator, is linked to the development of mammary tumors, whereas the extranuclear activity of ER α is related to endocrine therapy resistance. ER α polyubiquitination is induced by the estradiol hormone, and also by selective estrogen receptor degraders, resulting in ER α degradation *via* the ubiquitin proteasome system. Moreover, polyubiquitination is related to the ER α transcription cycle, and several E3-ubiquitin ligases also function as coactivators for ER α . Several studies have demonstrated that ER α polyubiquitination is inhibited by multiple mechanisms that include posttranslational modifications, interactions with coregulators, and formation of specific protein complexes with ER α . These events are responsible for an increase in ER α protein levels and deregulation of its signaling in breast cancers. Thus, ER α polyubiquitination

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Angeles C. Tecalco-Cruz, Josué O. Ramírez-Jarquín. "Me ...
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Cross-talk between notch and the estrogen receptor in breast cancer suggests novel therapeutic approaches

P Rizzo, H Miao, G D'Souza, C Osipo, J Yun, H Zhao... - *Cancer research*, 2008 - AACR

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[HTML] aacrjournals.org

Estrogen receptor α is a putative substrate for the BRCA1 ubiquitin ligase

CM Eakin, MJ MacCoss, GL Finney... - *Proceedings of the ...*, 2007 - National Acad Sciences

... processes ranging from membrane transport to transcriptional regulation; whereas polyubiquitination is known ... Therefore, monoubiquitination of ER α -LBD by BRCA1/BARD1 may suggest BRCA1/BARD1 ... system may be required for the formation of polyubiquitin chains on ER α ...

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[HTML] pnas.org

[HTML] Crosstalk between estrogen receptor α and the aryl hydrocarbon receptor in breast cancer cells involves unidirectional activation of proteasomes

M Wormke, M Stoner, B Saville, S Safe - *FEBS letters*, 2000 - Wiley Online Library

... However, results of ongoing studies indicate that AhR agonists also inhibit E2-induced expression of ... proteasome-dependent effects of TCDD plus E2 are consistent with reported inhibition of E2 ... after treatment with 10 nM TCDD for 3 h was significantly inhibited (relative to TCDD ...

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[HTML] wiley.com

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Untangling the ErbB signalling network

Y Yarden, MX Sliwkowski - *Nature reviews Molecular cell biology*, 2001 - nature.com

... homodimers 101 and directs them to lysosomal degradation by tagging with polyubiquitin tracts 102 ... myeloid leukaemia, encodes a dominant active form of c-Cbl, a ubiquitin ligase that ... of the its ErbB1 degradation through inhibition of an ...

[PDF] cellsignet.com



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1851571/> - 翻译此页

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2007年3月28日 - The breast cancer suppressor protein, BRCA1, is a ubiquitin ligase ... linked to inhibition of estrogen receptor α (ER α) transcriptional activation by BRCA1. ... have significant implications in controlling breast tissue proliferation.

SHARPIN stabilizes estrogen receptor α and promotes breast cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5652769/> - 翻译此页

作者 : T Zhuang - 2017 - 被引用次数 : 1 - 相关文章

2017年8月19日 - Estrogen receptor α is expressed in the majority of breast cancers and (D) The poly-ubiquitination inhibition effect by SHARPIN depends on ER α of FKBP1: implications for tumor growth and response to tamoxifen.

The Human Estrogen Receptor- α Is a Ubiquitinated Protein Whose ...

www.jbc.org/content/276/38/35684 - 翻译此页

作者 : AL Wijayaratne - 2001 - 被引用次数 : 424 - 相关文章

2001年9月21日 - The human estrogen receptor α -isoform (ER α) is a nuclear transcription ... It has been demonstrated that the binding of different ligands to ER α results in ... OTU Domain-containing Ubiquitin Aldehyde-binding Protein 1 (OTUB1) Receptor Modulators: Implications for the Treatment of Breast Cancer Clin.

Differential Regulation of Estrogen-Inducible Proteolysis and ...

mcb.asm.org/content/25/13/5417.full - 翻译此页

作者 : CC Valley - 2005 - 被引用次数 : 115 - 相关文章

The ubiquitin-proteasome pathway contributes to the control of transcription ... 29, 37, 50, 52, 55), the first identified being estrogen receptor α (ER α) (1, 13, 36). ... gene expression by estrogen in MCF-7 breast cells was not inhibited despite a ... in pituitary and breast cancer cell lines, which is apparent in a decrease in the ...