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

☆ 99 被引用次数：123 相关文章 所有 6 个版本

[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 ...

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The breast cancer suppressor protein, BRCA1, is a ubiquitin ligase expressed ... linked to inhibition of estrogen receptor α (ER α) transcriptional activation by BRCA1. ... could 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 FKBPL: 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 Wijayarathne - 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 ...