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Subject: Terpene - die Kraft der Natur  
Posted by [el huevo](#) on Mon, 01 Jun 2009 08:30:18 GMT  
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Hallo zusammen,  
ich bin durch Zufall auf eine schöne Zusammenfassung der verschiedenen Arten von Terpenen, eine große Gruppe von Naturstoffen, gestolpert und finde diesen Artikel absolut lesenswert.

Zumal uns ein Überblick über die wunderbaren Eigenschaften von diesen Pflanzenstoffen geschaffen wird, die von einigen von uns auch in topischen Lösungen bereits Anwendung finden.

<http://www.pharmazeutische-zeitung.de/index.php?id=1354>

egg

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Subject: Re: Terpene - die Kraft der Natur  
Posted by [Yes No](#) on Mon, 01 Jun 2009 15:19:14 GMT  
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Grad zum Thema (gefunden auf hairsite, poster 'benji')

Zitat:perillyl alcohol inhibits androgen receptor function and expression (Topicals)

posted by benji, 31.05.2009, 01:48

Titre du document / Document title

Perillyl alcohol inhibits the expression and function of the androgen receptor in human prostate cancer cells

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Résumé / Abstract

Perillyl alcohol is a hydroxylated monocyclic monoterpene. In animal study, monoterpene has shown to have an anti-tumor effect. The aim of this study is to evaluate whether POH plays an important role in the development and progression of prostate cancer (pCa). We treated LNCaP cells with different concentrations of perillyl alcohol (POH). First of all, we performed cell proliferation assay and prostate-specific antigen (PSA) and human glandular kallikrein (hK2) quantification assays. LNCaP cells were treated with or without POH for Western blot analysis of androgen receptor (AR) and c-Jun. Finally, we performed transient transfection assay by transfecting LNCaP cells-which were treated with or without POH-with pGL-3 luciferase vector containing PSA promoter and AR promoter. We observed inhibition of the expression and function of the AR by POH. through inhibition of androgen-induced cell growth and androgen-stimulated secretion of prostate-specific antigen and hK2, in human pCa cell line LNCaP. In addition, we demonstrated, for the first time, that POH inhibits the transcription activities of the AR gene

promoter by over-expression of c-Jun protein. These novel properties of POH strongly suggest that POH could be highly useful for intervention of pCa.

Perillyl alcohol is isolated from the essential oils of several plants including cherries, lavender, peppermint, spearmint, celery seeds, sage, cranberries, lemongrass, ginger grass, savin juniper, Conyza newii, caraway, Perilla frutescens, and wild bergamont.

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