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Date revised: 4 August 2021

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TI

Pro-apoptotic effects of lipid oxidation products: HNE at the crossroads of NF-kappa B pathway and anti-apoptotic Bcl-2

Timucin, Ahmet Can; Basaga, Huveyda. **FREE RADICAL BIOLOGY AND MEDICINE** 111 : 209-218. ELSEVIER SCIENCE INC. (Oct 2017)

AU
PUB

⊟ **Abstract (summary)** Translate

AB

The axis between lipid oxidation products and cell death is explicitly linked. 4-Hydroxynonenal (HNE), as well as other lipid oxidation products was also established to induce apoptosis in various experimental settings. Yet, the decision leading to apoptotic execution not only includes upregulation of pro-apoptotic signals but also involves a downregulation of anti-apoptotic signals. Within the frames of this paradigm, HNE acts significantly different from other lipid oxidation products in the regulation of two widely known anti-apoptotic elements, Nuclear Factor-kappa B (NF-kappa B) transcription factors and its target anti-apoptotic B-Cell Lymphoma-2 (Bcl-2) protein. Even so, a review inclusively linking these anti-apoptotic factors and their crosstalk upon HNE exposure is still at demand. In order to elucidate presence of such crosstalk, reports on the link between HNE and NF-kappa B pathway, on the link between HNE and anti-apoptotic Bcl-2 and on the crossroad of these links during HNE exposure were summarized and discussed. IKK, the upstream kinase of NF-kappa B, has been shown to regulate HNE mediated phosphorylation and inactivation of Bcl-2 by our group. Based on this observation and other studies reporting on HNE-NF-kappa B pathway interaction, IKK was proposed to mediate the crosstalk of NF-kappa B pathway and anti-apoptotic Bcl-2 protein, when HNE is present. These reports further suggested that HNE based inhibition of NF-kappa B pathway is highly likely. Besides, evidence on the HNE-anti-apoptotic Bcl-2 axis supported the deduction of HNE mediated NF-kappa B pathway inhibition and IKK mediated Bcl-2 inactivation. In conclusion, through combining all evidences, three possible scenarios intervening the HNE mediated crosstalk between NF-kappa B pathway and anti-apoptotic Bcl-2 protein, was extrapolated.

⊟ **Indexing (details)** 📋 Cite

RF, CAU, CTI,
CPUB, CYR,
CVO, CPG

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SU	Subject	Biochemistry & Molecular Biology; Endocrinology & Metabolism; CYTOCHROME-C RELEASE; ATTENUATES 4-HYDROXYNONENAL-INDUCED APOPTOSIS; HUMAN OSTEOARTHRITIC CHONDROCYTES; CHRONIC CEREBRAL HYPOPERFUSION; GLUTATHIONE-S-TRANSFERASE; PROGRAMMED CELL-DEATH; PC12 CELLS; MEDIATED APOPTOSIS; HYDROGEN-PEROXIDE; LIVER-INJURY
IF	Identifier (keyword)	4-Hydroxynonenal, Nuclear factor-kappa B, B-cell lymphoma-2, Apoptosis
TI	Title	Pro-apoptotic effects of lipid oxidation products: HNE at the crossroads of NF-kappa B pathway and anti-apoptotic Bcl-2
AU	Author	Timucin, Ahmet Can [1] ; Basaga, Huveyda [1]
		[1] Sabanci Univ, Mol Biol Genet & Bioengn Program, Fac Engn & Nat Sci, Istanbul, Turkey, Turkey cantimucin@sabanciuniv.edu; huveyda@sabanciuniv.edu
AU	Correspondence author	Basaga, Huveyda Sabanci Univ, Mol Biol Genet & Bioengn Program, Fac Engn & Nat Sci, Istanbul, Turkey.
GI	Grant	Sabanci University Postdoctoral Fellowship, , Ahmet Can Timucin was supported by Sabanci University Postdoctoral Fellowship.
LG	Language	English
LA	Language of abstract	English
DTYPE	Document type	Review
PUB	Publication title	FREE RADICAL BIOLOGY AND MEDICINE
VOL	Volume	111
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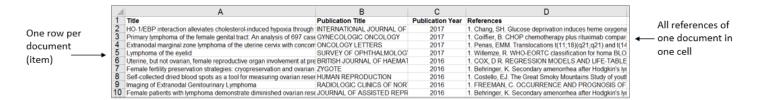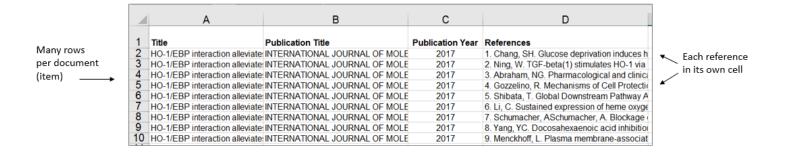|	A	B	C	D
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5	Lymphoma of the eyelid	SURVEY OF OPHTHALMOLOGY	2017	1. Willemze, R. WHO-EORTC classification for homa BLO
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Some references may contain corporate rather than personal authors, e.g.:

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1. ASTM. Standard test methods for laboratory testing of non-commercial mosquito repellent formulation on the skin. ASTM-E951-94 (2000);
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There are some cited patents in SciSearch. These consist of some or all of the following elements: assignee, title, publication year, country code, patent number and kind code, for example the first in this list of references:
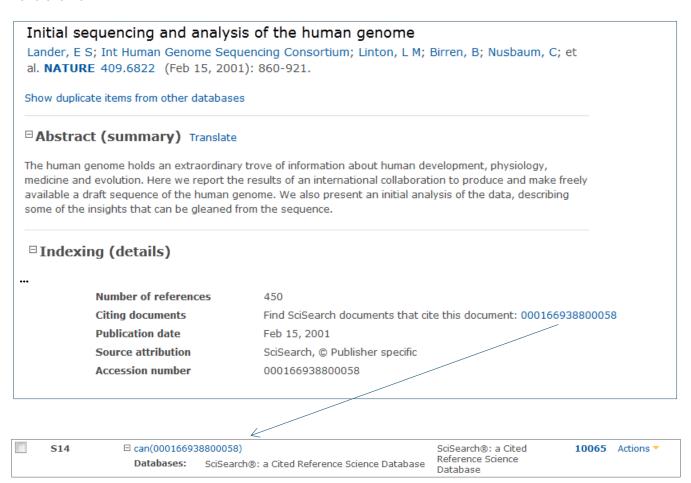
References	1. Kramaric, A. Thermoreversible gel as a liquid pharmaceutical carrier for a galenic formulation. European Patent (1992) 0551626(A1) (Patent);
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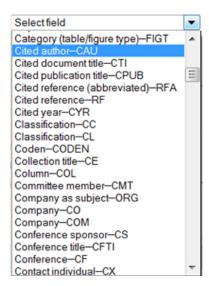|	S23	⊟ cau(sanger) and cau(lander) **Databases:** SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	**458°** Actions ▾

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JOURNAL OF VIROLOGY (2011) 85: 8241. DOI http://dx.doi.org/10.1128/JVI.00519-11")
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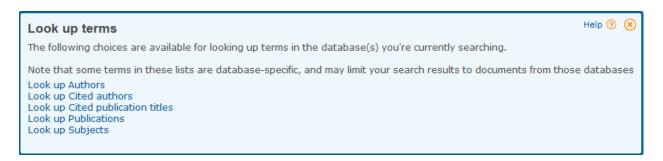
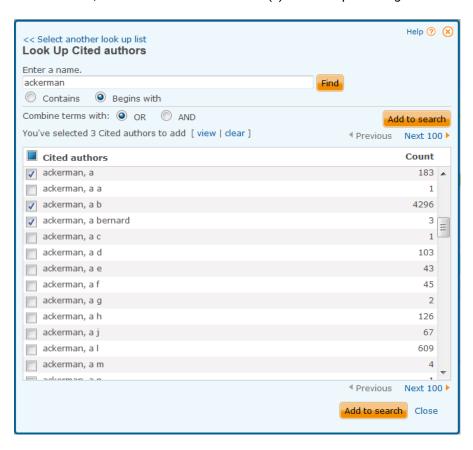|	S26	⊟ rf("Ge, J Y. Newcastle Disease Virus-Vectored Rabies Vaccine Is Safe, Highly Immunogenic, and Provides Long-Lasting Protection in Dogs and Cats. JOURNAL OF VIROLOGY (2011) 85: 8241. DOI http://dx.doi.org/10.1128/JVI.00519-11") **Databases:** SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	**7°** Actions ▾

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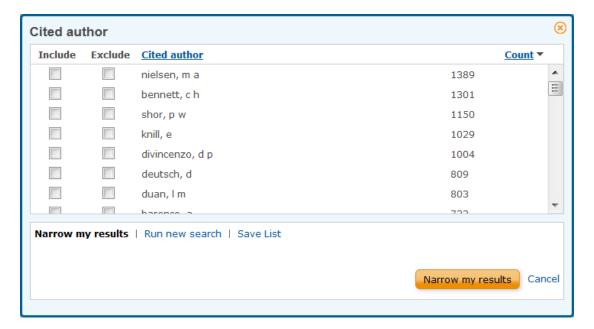
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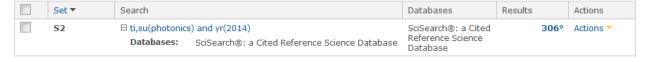
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