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

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

AU **Abstract (summary)** [Translate](#)

PUB

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.

AB

Indexing (details)  Cite

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RF, CAU,
CTI, CPUB,
CYR, CVO,
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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
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AU	Correspondence author	Basaga, Huveyda Sabanci Univ, Mol Biol Genet & Bioengn Program, Fac Engn & Nat Sci, Istanbul, Turkey.
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Laubach, Jacob P ; Tai, Yu Tzu ; Richardson, Paul G ; Anderson, Kenneth C . **EXPERT OPINION ON INVESTIGATIONAL DRUGS** 23.4 (Apr 2014): 445-452.

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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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You can search for cited patents with the query RF(PATENT).

Citing articles

Finding articles that cite a known paper or author can reveal much about the continuation or discontinuation of certain areas of research, and who might be supporting or challenging the work.

The easiest way to search for citing articles is to locate the document representing your reference and use the 'citing' link within it. For example, to find articles citing "Initial sequencing and analysis of the human genome" published by Lander et al in Nature 2001, search first for the Lander article, open it, locate the citing link towards the bottom of the document, and click it:

Initial sequencing and analysis of the human genome

Lander, E S; Int Human Genome Sequencing Consortium; Linton, L M; Birren, B; Nusbaum, C; et al. **NATURE** 409.6822 (Feb 15, 2001): 860-921.

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Abstract (summary) [Translate](#)

The human genome holds an extraordinary trove of information about human development, physiology, medicine and evolution. Here we report the results of an international collaboration to produce and make freely available a draft sequence of the human genome. We also present an initial analysis of the data, describing some of the insights that can be gleaned from the sequence.

Indexing (details)

...		
Number of references	450	
Citing documents	Find SciSearch documents that cite this document: 000166938800058	
Publication date	Feb 15, 2001	
Source attribution	SciSearch, © Publisher specific	
Accession number	000166938800058	

S14 [can\(000166938800058\)](#) SciSearch®: a Cited Reference Science Database **10065** [Actions](#) ▼

The resulting 10,065 articles are those citing the Lander paper above.

It is also possible to search for papers citing your reference on the Command Line or Advanced Search page. Start with the parts of the reference you know. Use field code RF which covers the whole reference, or the more specific ones CAU (cited author), CTI (cited title), CPUB (cited publication), CYR (cited year), CPG (cited first page), CVO (cited volume), and CDOI (cited DOI). Use LNK to combine parts of the same reference, or AND to combine different references.

For example, to find articles which cite the Lander 2001 paper on the human genome:

<input type="checkbox"/>	S15	<input type="checkbox"/> rf(lander LNK 2001 LNK "human genome")	SciSearch®: a Cited Reference Science Database	10067*	Actions ▼
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The 10,067 results are articles in SciSearch which cite Lander's paper, in effect the same as the result of set 14.

To find articles which cite Sanger's 1977 paper on DNA sequencing:

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With very prominent names you may find the results a little imprecise as 'Sanger' or 'Lander' may be part of the article title. In such cases, using the more specific field codes will return better results, e.g.:

<input type="checkbox"/>	S23	<input type="checkbox"/> cau(sanger) and cau(lander)	SciSearch®: a Cited Reference Science Database	458°	Actions ▼
		Databases:	SciSearch®: a Cited Reference Science Database		

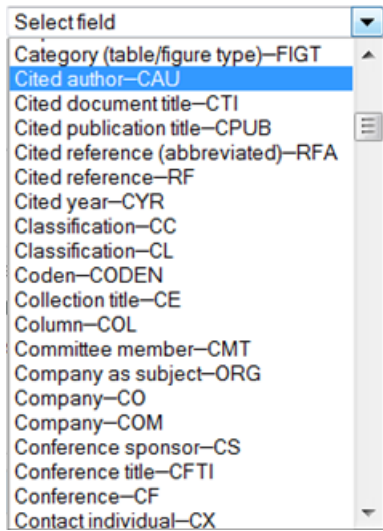
All parts of the reference are searchable. For example, to search for a reference dated 1971, from volume 48 or 49, page 267 with the word 'allergy' in the title or publication name, enter: *rf(1971 LNK (48 OR 49) LNK 267 LNK allergy)*

The reference is searchable in its entirety too, if you know it or want to copy and paste it, e.g.:

<code>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")</code>					
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<input type="checkbox"/>	S26	<input type="checkbox"/> 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")	SciSearch®: a Cited Reference Science Database	7°	Actions ▼
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Look Up Cited authors

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Contains Begins with

Combine terms with: OR AND Add to search

You've selected 3 Cited authors to add [view | clear] ◀ Previous Next 100 ▶

Cited authors	Count
<input checked="" type="checkbox"/> ackerman, a	183
<input type="checkbox"/> ackerman, a a	1
<input checked="" type="checkbox"/> ackerman, a b	4296
<input checked="" type="checkbox"/> ackerman, a bernard	3
<input type="checkbox"/> ackerman, a c	1
<input type="checkbox"/> ackerman, a d	103
<input type="checkbox"/> ackerman, a e	43
<input type="checkbox"/> ackerman, a f	45
<input type="checkbox"/> ackerman, a g	2
<input type="checkbox"/> ackerman, a h	126
<input type="checkbox"/> ackerman, a j	67
<input type="checkbox"/> ackerman, a l	609
<input type="checkbox"/> ackerman, a m	4
<input type="checkbox"/> ackerman, a n	1

◀ Previous Next 100 ▶

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When looking up cited publications, bear in mind that about 80% of references have fully spelled out publication titles, and 20% may have abbreviations, so browse several options to get good coverage.

The search fields, their codes, and the look-up lists are all available on the Advanced Search page too:

The screenshot shows the ProQuest SciSearch Advanced Search page. At the top, it says 'ProQuest Dialog SciSearch®: a Cited Reference Science Database'. Below that are links for 'Basic Search', 'Advanced', and 'Command Line'. The main heading is 'Advanced Search' with a sub-heading 'Look Up Citation'. There are search input fields and a dropdown menu for field codes. The dropdown menu is open, showing a list of field codes such as 'All fields + text', 'Abstract - AB', 'Author - AU', 'Author affiliation - AF', 'Cited reference - RF', 'Cited accession number - CAN', 'Cited author - CAU', 'Cited document title - CTI', 'Cited pagination - CPG', 'Cited publication title - CPUB', 'Cited publication year - CYR', 'Cited volume - CVO', 'Document title - TI', 'Publication title - PUB', 'Subjects - SU', and 'Identifier (keyword) - IF'. There are also 'More options' like 'Accession number - AN', 'ISSN - ISSN', and 'Publisher - PB'. On the right side, there are search tips: 'Use quotation marks (e.g., "DNA testing") to search for a phrase.' and 'diabetes NEAR/3 treatment: NEAR/n looks for documents that contain two search terms within a specified'. At the bottom, there are search options like 'Synonyms', 'Limit to', 'Publication date', and 'Updated', and fields for 'Cited author', 'Cited publication title', and 'Author affiliation'.

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Frequently cited authors in a subject area may be potential collaborators, or you may wish to find key opinion leaders or rising stars. It is easy to identify them as follows. Start with a subject search in the usual way:

<input type="checkbox"/>	Set ▾	Search	Databases	Results	Actions
<input type="checkbox"/>	S1	<input type="checkbox"/> ti,su(quantum computation) Databases: SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	5659*	Actions ▾

Subscription customers will see the 'Cited authors' results filter in the right-hand panel. Open this:

The screenshot shows a 'Narrow results by' filter panel. It has a header 'Narrow results by' and a list of filters: 'Cited author' (selected), 'Cited publication title', 'Author', and 'Language'. Under 'Cited author', there are several author names with their citation counts: 'nielsen, m a (1389)', 'bennett, c h (1301)', 'shor, p w (1150)', 'knill, e (1029)', and 'divincenzo, d p (1004)'. There is also a 'More options...' link.

The five most frequently cited authors in the 5,659 results on quantum computation are displayed. Note that, in cited references, only the first author is included.

Choose 'More options' to review the top 500 cited authors:

Include	Exclude	Cited author	Count
<input type="checkbox"/>	<input type="checkbox"/>	nielsen, m a	1389
<input type="checkbox"/>	<input type="checkbox"/>	bennett, c h	1301
<input type="checkbox"/>	<input type="checkbox"/>	shor, p w	1150
<input type="checkbox"/>	<input type="checkbox"/>	knill, e	1029
<input type="checkbox"/>	<input type="checkbox"/>	divincenzo, d p	1004
<input type="checkbox"/>	<input type="checkbox"/>	deutsch, d	809
<input type="checkbox"/>	<input type="checkbox"/>	duan, l m	803
<input type="checkbox"/>	<input type="checkbox"/>	barenco, a	722

Narrow my results | Run new search | Save List

Narrow my results Cancel

In this example, 'Nielsen, M A' was the most frequently cited author in the results on quantum computation, appearing in 1,389 of the bibliographies in the 5,659 articles. At this point, subscription customers can include or exclude particular authors, run a new search, save the list, or export it to Excel for further analysis:

Narrow my results | Run new search | **Save List**

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Save List Cancel

	A	B	C	D
1	Searched for:	ti,su(quantum computation)		
2	Databases:	SciSearch®		
3				
4	Cited author	Count		
5	nielsen, m a	1389		
6	bennett, c h	1301		
7	shor, p w	1150		
8	knill, e	1029		
9	divincenzo, d p	1004		
10	deutsch, d	809		
11	duan, l m	803		
12	barenco, a	722		
13	cirac, j i	714		
14	grover, l k	696		
15	loss, d	690		
16	kitaev, a y	660		
17	gottesman, d	645		
18	zanardi, p	602		
19	lloyd, s	569		
20	raussendorf, r	523		
21	jones, j a	499		

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Frequently cited publications in a subject area will be a useful guide for authors. These are identified just as easily as the cited authors. Start with the subject:

<input type="checkbox"/>	Set ▾	Search	Databases	Results	Actions
<input type="checkbox"/>	S2	<input type="checkbox"/> ti,su(photronics) and yr(2014) Databases: SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	306°	Actions ▾

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 - optics letters (88)
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 - ieee photonics technology letters (81)
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Cited publication title

Include	Exclude	Cited publication title	Count
<input type="checkbox"/>	<input type="checkbox"/>	optics express	132
<input type="checkbox"/>	<input type="checkbox"/>	nature photonics	95
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<input type="checkbox"/>	<input type="checkbox"/>	applied physics letters	82
<input type="checkbox"/>	<input type="checkbox"/>	ieee photonics technology letters	81
<input type="checkbox"/>	<input type="checkbox"/>	journal of lightwave technology	81
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