

Occupational Health Alert

Occupational Health Alert October, 2021 issue deals with articles Published from 1st Nov 2021 – 30th Nov 2021 on **Lead Exposure**.

Full text articles will be provided on request.

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Lead Exposure

1.	<p>Lead Exposure in Developmental Ages Promotes Abeta Accumulation by Disturbing Abeta Transportation in Blood-Cerebrospinal Fluid Barrier/Blood-Brain Barriers and Impairing Abeta Clearance in the Liver.</p> <p>Zhou CC, Wang XJ, Li ZC, Lu WJ, Zhang YT, Shen FM, Li DJ. Biol Trace Elem Res. 2021 Nov 17. doi: 10.1007/s12011-021-02969-8. Online ahead of print.</p>
2.	<p>Association between occupational lead exposure and immunotoxicity markers: A systematic review and meta-analysis.</p> <p>Kalahasthi R, Nagaraju R, Balachandar R, Bagepally BS. Toxicology. 2021 Nov 24;153047. doi: 10.1016/j.tox.2021.153047. Online ahead of print.</p>
3.	<p>Lead exposure induced inflammation in bursa of Fabricius of Japanese quail (<i>C. japonica</i>) via NF-kappaB pathway activation and Wnt/beta-catenin signaling inhibition.</p> <p>Wang L, Zheng Y, Zhang G, Han X, Li S, Zhao H. J Inorg Biochem. 2021 Nov;224:111587. doi: 10.1016/j.jinorgbio.2021.111587. Epub 2021 Aug 20.</p>
4.	<p>Does sulfuric acid have a 'protective' effect on battery recyclers exposed to lead?</p> <p>Díaz-Criollo S, Varona-Uribe ME, Téllez-Avila EM, Palma-Parra M, Palencia-Flórez D, Idrovo AJ. Int J Environ Health Res. 2021 Nov;31(7):755-761. doi: 10.1080/09603123.2019.1687659. Epub 2019 Nov 6.</p>
5.	<p>Identifying periods of heightened susceptibility to lead exposure in relation to behavioral problems.</p> <p>Sears CG, Lanphear BP, Xu Y, Chen A, Yolton K, Braun JM. J Expo Sci Environ Epidemiol. 2021 Nov 2. doi: 10.1038/s41370-021-00389-3. Online ahead of print.</p>
6.	<p>Does exposure exacerbate symptoms in veterans with PTSD and alcohol use disorder?</p> <p>Tripp JC, Haller M, Trim RS, Straus E, Bryan CJ, Davis BC, Lyons R, Hamblen JL, Norman SB. Psychol Trauma. 2021 Nov;13(8):920-928. doi: 10.1037/tra0000634. Epub 2020 Jul 16.</p>
7.	<p>Brain copper clearance by the blood-cerebrospinal fluid-barrier: effects of lead exposure.</p> <p>He B, Wang L, Li S, Cao F, Wu L, Chen S, Pang S, Zhang Y. Neurosci Lett. 2021 Nov 26:136365. doi: 10.1016/j.neulet.2021.136365. Online ahead of print.</p>
8.	<p>Evaluation of blood lead among painters of buildings and cars.</p> <p>Ghaffarian-Bahraman A, Taherifard A, Esmaeili A, Ahmadinia H, Rezaeian M.</p>

	Toxicol Ind Health. 2021 Nov 19:7482337211042731. doi: 10.1177/07482337211042731. Online ahead of print.
9.	Exposure of the residents around the Three Gorges Reservoir, China to chromium, lead and arsenic and their health risk via food consumption. Yang J, Xie Q, Wang Y, Wang J, Zhang Y, Zhang C, Wang D. Ecotoxicol Environ Saf. 2021 Nov 19;228:112997. doi: 10.1016/j.ecoenv.2021.112997. Online ahead of print.
10.	Critical aspects of the physiological interactions between lead and magnesium. Wyparło-Wszelaki M, Machoń-Grecka A, Wąsik M, Dobrakowski M. J Biochem Mol Toxicol. 2021 Nov 12:e22964. doi: 10.1002/jbt.22964. Online ahead of print.
11.	Lead in Archeological Human Bones Reflecting Historical Changes in Lead Production. Erel Y, Pinhasi R, Coppa A, Ticher A, Tirosh O, Carmel L. Environ Sci Technol. 2021 Nov 2;55(21):14407-14413. doi: 10.1021/acs.est.1c00614. Epub 2021 Aug 16.
12.	Heavy metal fixation of lead-contaminated soil using Morchella mycelium. Wang Y, Tan R, Zhou L, Lian J, Wu X, He R, Yang F, He X, Zhu W. Environ Pollut. 2021 Nov 15;289:117829. doi: 10.1016/j.envpol.2021.117829. Epub 2021 Jul 27.
13.	Functional consequences of lead and mercury exposomes in the heart. Ferreira G, Santander A, Chavarría L, Cardozo R, Savio F, Sobrevia L, Nicolson GL. Mol Aspects Med. 2021 Nov 13:101048. doi: 10.1016/j.mam.2021.101048. Online ahead of print.
14.	Effects of environmental and occupational lead toxicity and its association with iron metabolism. Słota M, Wąsik M, Stołtny T, Machoń-Grecka A, Kasperczyk S. Toxicol Appl Pharmacol. 2021 Nov 13;434:115794. doi: 10.1016/j.taap.2021.115794. Online ahead of print.
15.	Ultraviolet-B exposure and exogenous hydrogen peroxide application lead to cross-tolerance toward drought in Nicotiana tabacum L. Sáenz-de la O D, Morales LO, Strid Å, Torres-Pacheco I, Guevara-González RG. Physiol Plant. 2021 Nov;173(3):666-679. doi: 10.1111/ppl.13448. Epub 2021 May 20.
16.	Histopathological effects of short-term aqueous exposure to environmentally relevant concentration of lead (Pb) in shorthorn sculpin (Myoxocephalus scorpius) under laboratory conditions. Jantawongsri K, Nørregaard RD, Bach L, Dietz R, Sonne C, Jørgensen K, Lierhagen S, Ciesielski TM, Jenssen BM, Haddy J, Eriksen R, Nowak B. Environ Sci Pollut Res Int. 2021 Nov;28(43):61423-61440. doi: 10.1007/s11356-021-14972-6. Epub 2021 Jun 26.

17.	<p>Direct cardiotoxicity of lead. Chavarría L, Santander A, Cardozo R, Savio F, Mujica N, Dominguez L, Nicolson G, Ferreira G. J Gen Physiol. 2022 Sep 5;154(9):e2021ecc6. doi: 10.1085/jgp.2021ecc6. Epub 2021 Nov 12.</p>
18.	<p>Uneven development of the lead industry leads to regional differences in blood lead levels of children. Liu Y, Xu C, Liu F, Xiao G, Zhou S, Huang L, Lin N, Li J, Chen D, Fu Q, Wang H, Du Q. Environ Pollut. 2021 Nov 15;293:118504. doi: 10.1016/j.envpol.2021.118504. Online ahead of print.</p>
19.	<p>Mitochondria-Mediated Moderation of Apoptosis by EGCG in Cytotoxic Neuronal Cells Induced by Lead (Pb) and Amyloid Peptides. Ayyalasomayajula N, Bandaru LJM, Chetty CS, Dixit PK, Challa S. Biol Trace Elem Res. 2021 Nov 19. doi: 10.1007/s12011-021-02959-w. Online ahead of print.</p>
20.	<p>Prenatal Lead and Depression Exposures Jointly Influence Birth Outcomes and NR3C1 DNA Methylation. Appleton AA, Kiley KC, Schell LM, Holdsworth EA, Akinsanya A, Beecher C. Int J Environ Res Public Health. 2021 Nov 19;18(22):12169. doi: 10.3390/ijerph182212169.</p>
21.	<p>Desynchronized circadian clock and exposures to xenobiotics are associated with differentiated disease phenotypes: The interface of desynchronized circadian clock and exposures to xenobiotics would lead to adverse response and recovery. Makris KC. Bioessays. 2021 Nov;43(11):e2100159. doi: 10.1002/bies.202100159. Epub 2021 Sep 28.</p>
22.	<p>Mitochondria-Mediated Moderation of Apoptosis by EGCG in Cytotoxic Neuronal Cells Induced by Lead (Pb) and Amyloid Peptides. Ayyalasomayajula N, Bandaru LJM, Chetty CS, Dixit PK, Challa S. Biol Trace Elem Res. 2021 Nov 19. doi: 10.1007/s12011-021-02959-w. Online ahead of print.</p>