Recommended Reading

Audebert et al. 2012 Comparative potency approach based on H2AX assay for estimating the genotoxicity of polycyclic aromatic hydrocarbons https://www.sciencedirect.com/science/article/pii/S0041008X12000415

Bazarian J.J., P. Biberthaler, R. D. Welch, et al. Serum GFAP and UCH-L1 for prediction of absence of intracranial injuries on head CT (ALERT-TBI): a multicentre observational study. Lancet Neurol. 2018;17(9):782-789. doi:10.1016/S1474-4422(18)30231-X

Bolognosi et al. 2017 - CBMN meta-analysis and dose response in vinyl-chloride exposed workers: https://pubmed.ncbi.nlm.nih.gov/29173494/?

Ethridge A., et al. (2011). "Extracellular microRNA: a new source of biomarkers". Mutation Research 717 (1-2): 85-90.

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Kirsch-Volders et al. 2018 - CBMN systematic review across various carcinogens in humans: https://pubmed.ncbi.nlm.nih.gov/30389162/

Kopp B., L. Khoury, and M. Audebert. 2019. Validation of the γH2AX biomarker for genotoxicity assessment: a review. Archives of Toxicology 93(8):2103-2114.

Luster, M. I., V. J. Johnson, B. Yucesoy, and P. P. Simeonova. 2005. Biomarkers to assess potential developmental immunotoxicity in children. Toxicology and Applied Pharmacology 206(2):229-236.

Rager, J. E., S. S. Auerbach, G. A. Chappell, E. Martin, C. M. Thompson, and R. C. Fry. 2017. Benchmark Dose Modeling Estimates of the Concentrations of Inorganic Arsenic That Induce Changes to the Neonatal Transcriptome, Proteome, and Epigenome in a Pregnancy Cohort. *Chemical Respiratory in Toxicology* 30: 1911-1920.

Ray, P. D., A. Yosim, and R. C. Fry. 2014. Incorporating epigenetic data into the risk assessment process for the toxic metals arsenic, cadmium, chromium leasd, and mercury: strategies and challenge. *Frontiers in Genetics* 5(201): 1-26.

Roberts R. A., M. Aschner, D. Calligaro, et al. Translational Biomarkers of Neurotoxicity: A Health and Environmental Sciences Institute Perspective on the Way Forward. Toxicol Sci. 2015;148(2):332-340. doi:10.1093/toxsci/kfv188

Sakane et al. 2020: H2AX correlates with chrome abbs in showing effects of chest xrays in exposed humans: https://pubmed.ncbi.nlm.nih.gov/32154776/

Serdar et al. 2016: H2AX biomarker of DNA damage in roofers: https://ehjournal.biomedcentral.com/articles/10.1186/s12940-016-0182-4 ;

Tomasetig et al. 2020: H2AX indicator of DNA damage potency of 27 PAHs across 3 human cell lines: https://www.ncbi.nlm.nih.gov/pubmed/32184089 - (This one shows utility of the biomarker for predictive screening and for risk assessment in providing an in vitro way for cancer TEFs across PAHs)https://pubmed.ncbi.nlm.nih.gov

Vrijens K, Bollati V, Nawrot TS. (2015). “MicroRNAs as potential signatures of environmental exposure or effect: a systematic review”. Environ Health Perspect 123:399–411.
Walker A. L., S. Z. Imam, and R. A. Roberts. Drug discovery and development: Biomarkers of neurotoxicity and neurodegeneration. Exp Biol Med (Maywood). 2018;243(13):1037-1045. doi:10.1177/1535370218801309
Yue J. K., E. L. Yuh, F. K. Korley, et al. Association between plasma GFAP concentrations and MRI abnormalities in patients with CT-negative traumatic brain injury in the TRACK-TBI cohort: a prospective multicentre study. *Lancet Neurol*. 2019;18(10):953-961. doi:10.1016/S1474-4422(19)30282-0

Some of the competing thinking is outlined here:

- https://pubmed.ncbi.nlm.nih.gov/15979392/
- https://www.altex.org/index.php/altex/article/view/455/466
- https://www.frontiersin.org/articles/10.3389/fdata.2019.00036/full
- https://www.pnas.org/content/114/51/E10881.long