The Application of Stable Isotope Exposures for Chemical-Specific DNA Damage Analysis and Cancer Risk

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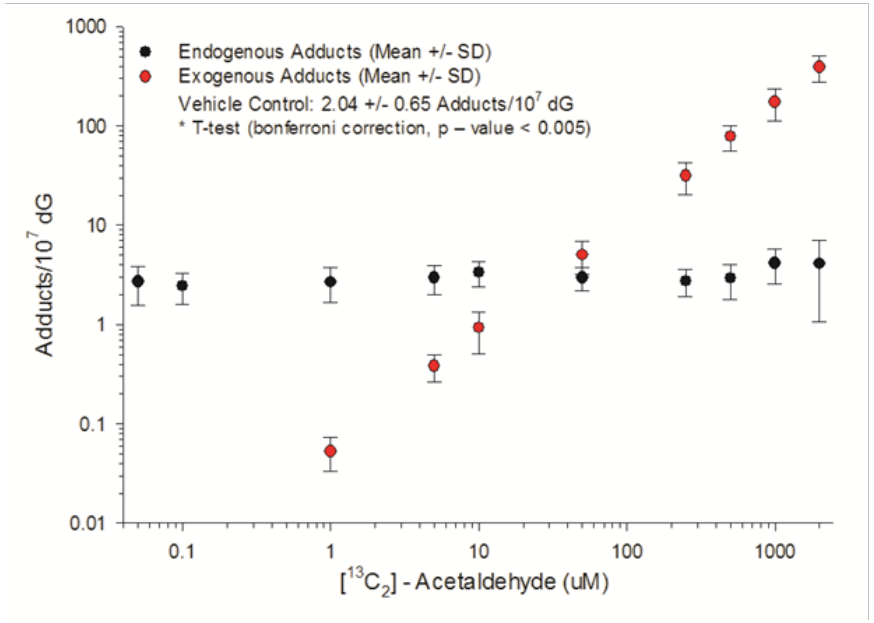
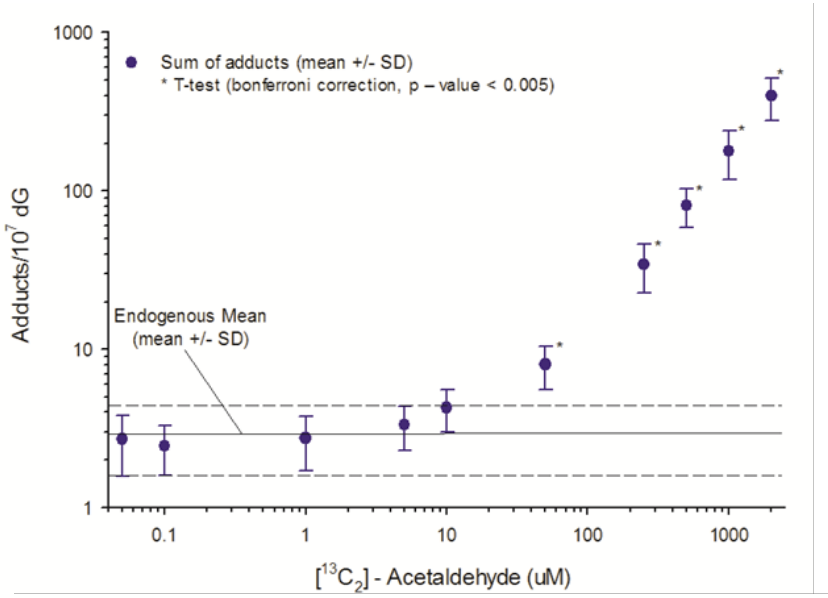
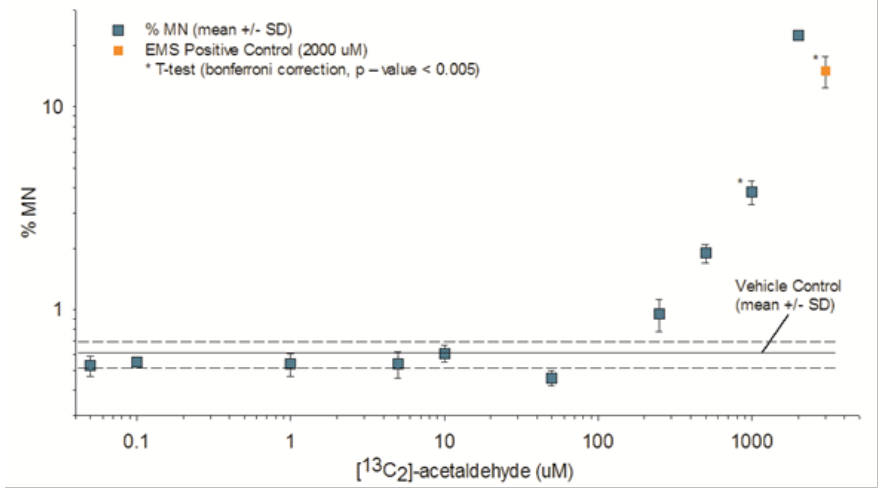
Table 1
The endogenous exposome steady-state amounts of endogenous DNA damage.

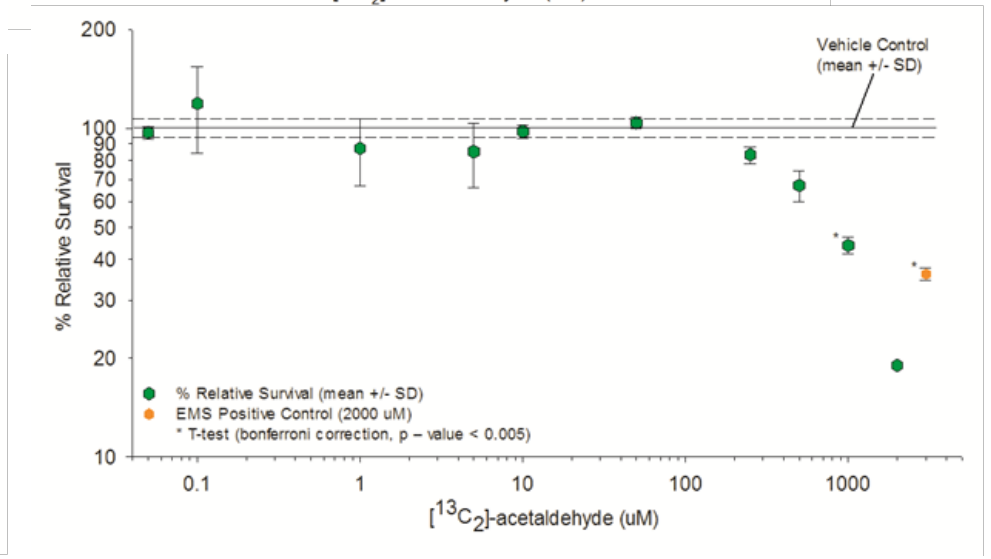
Endogenous DNA lesions	Number per cell
AP sites	30,000
OHEtG	3,000
7-(2-Oxoethyl)G	3,000
8-OxodG	2,400
Formaldehyde	1,000–4,000
Acetaldehyde	1,000–5,000
7-Methylguanine	2,300
AcrdG	120
M_1dG	60
N^2,3-Ethenoguanine	36
1N^2-Etheno dG	30
lN^6-EthnodA	12
O^6-Methyl dG	2
Total	40,000+

Comparison of Endogenous and Exogenous Exposure to Acetaldehyde









Moeller B C et al. Toxicol. Sci. 2013;toxsci.kft029