

Electronic supplementary information

Urinary profiling of *cis-diol*-containing metabolites in rats with bisphenol A exposure by liquid chromatography-mass spectrometry and isotope labeling

Shangfu Li^{a,†}, Yibao Jin^{b,†}, Jue Wang^b, Zhi Tang^a, Shunqing Xu^c, Tiejie Wang^{b,*} and Zongwei Cai^{a,*}

a State Key Laboratory of Environmental and Biological Analysis, Department of Chemistry, Hong Kong Baptist University, Hong Kong, P. R. China

b Shenzhen Institute for Drug Control, Shenzhen, 518057, P. R. China

c Key Laboratory of Environment and Health, Ministry of Education & Ministry of Environmental Protection, and State Key Laboratory of Environmental Health, School of Public Health, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, People's Republic of China

† These authors contributed to this work equally.

*** Corresponding author:**

Prof. Zongwei Cai and Dr. Tiejie Wang

E-mail: zwcai@hkbu.edu.hk, wangtj88@163.com

Tel: (852) 3411-7070

Fax: (852) 3411-7348

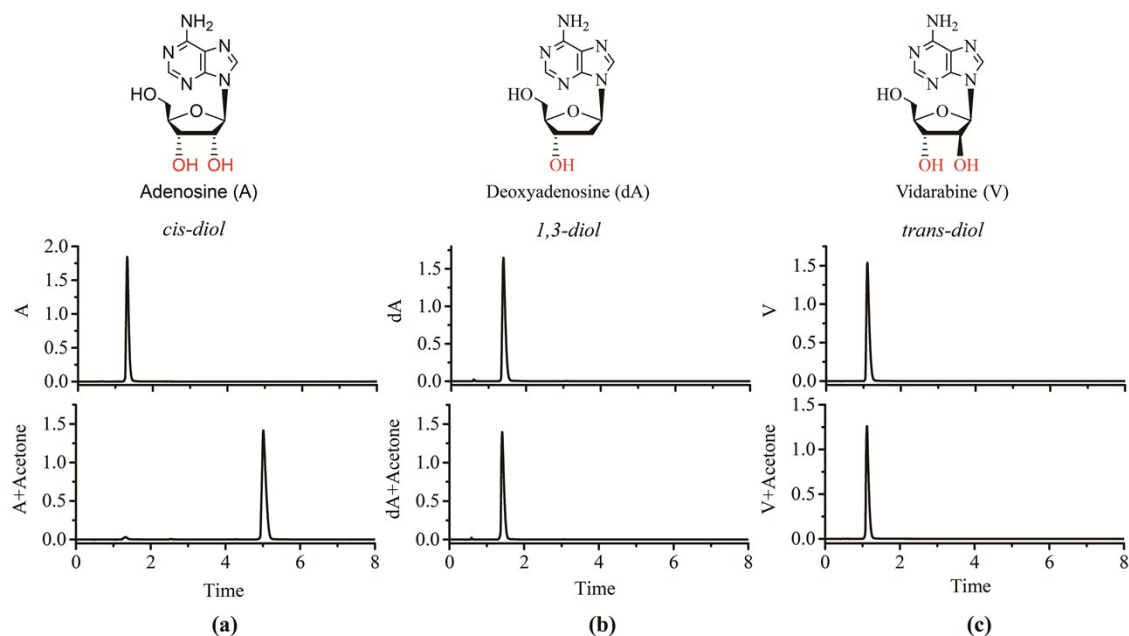


Fig. S1 Selectivity evaluation of the chemical labeling reaction by using acetone to label (a) adenosine, (b) deoxyadenosine and (c) vidarabine. The chromatographic separation was accomplished with ACQUITY-ultra performance liquid chromatography system equipped with a PDA detector. Ultraviolet detection was set at 260 nm.

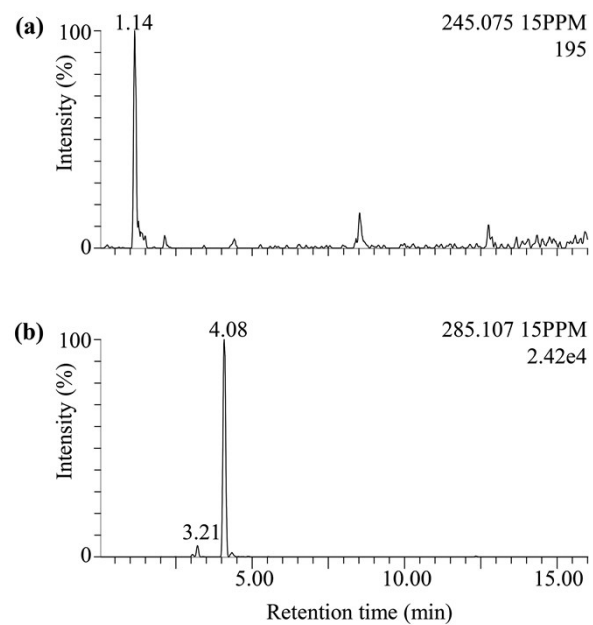


Fig. S2 Chromatographic separation of uridine and pseudouridine on reverse phase column. Extracted ion chromatograms of samples by direct analysis (a) and labeling with acetone (b).

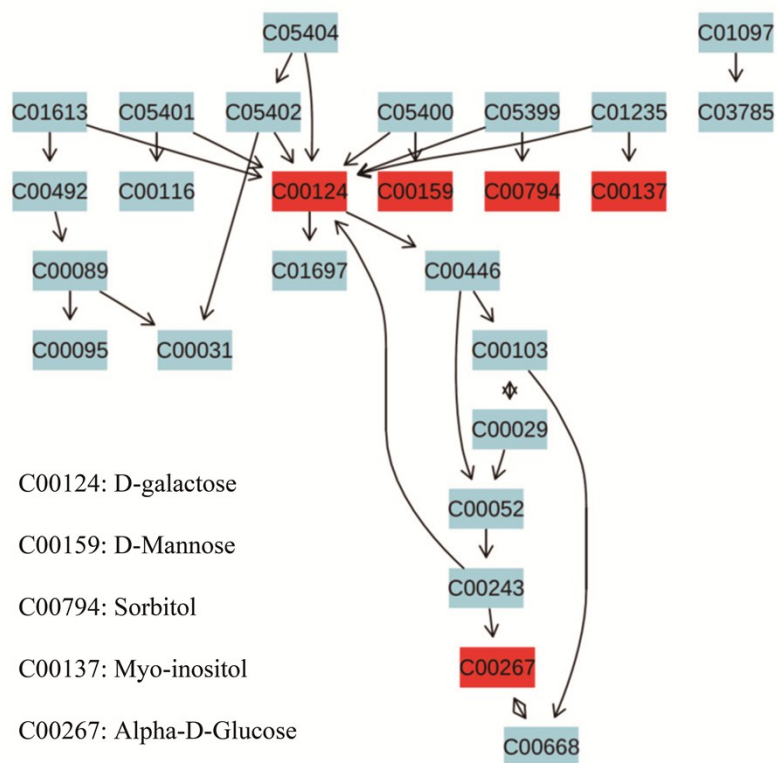


Fig. S3 Differential metabolites in galactose metabolism pathway affected by BPA.