

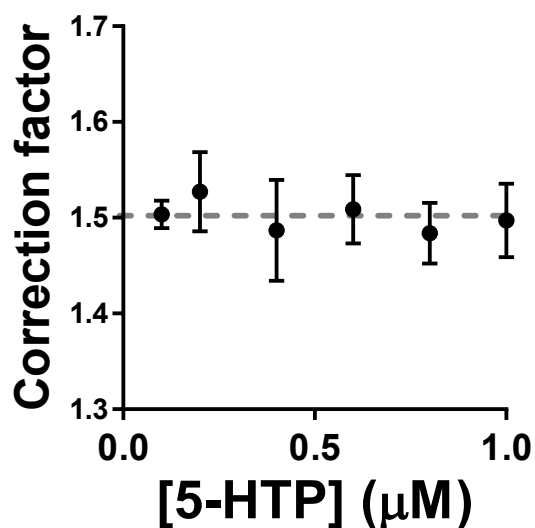
SUPPLEMENTARY INFORMATION

Determination of tryptophan metabolism from biological tissues and fluids using high performance liquid chromatography with simultaneous dual electrochemical detection

Emily L. Brooks^{a,b}, Vongai S. Mutengwa^a, Aya Abudulla^{a,b}, Mark S. Yeoman^{a,b} and Bhavik Anil Patel^{a,b*}

^aSchool of Pharmacy and Biomolecular Sciences and ^bCentre for Stress and Age-Related Disease, University of Brighton, Brighton, UK

Supplementary Figure 1. Correction factor that covers a varying range of 5-HTP concentrations observed in biological tissues and fluids.



Supplementary Table 1. The concentration range, sensitivity, calibration coefficient and limit of detection for all the analytes explored within the 5-HT and KYN pathway

Analyte	Range (μM)	Sensitivity ($\mu\text{C } \mu\text{M}^{-1}$)	R value	LOD (nM)
Norepinephrine	0.01 - 1	0.71 ± 0.04	0.9196	30.91
Dopamine	0.01 - 1	0.74 ± 0.01	0.9975	30.90
5-HTP	0.01 - 1	2.41 ± 0.12	0.9322	22.45
5-HT	0.01 - 1	2.80 ± 0.03	0.9998	6.20
Kynurenine	0.01 - 1	0.20 ± 0.01	0.9774	36.77
DOPAC	0.01 - 1	1.23 ± 0.02	0.9999	7.35
Trpytophan	0.01 - 1	1.90 ± 0.10	0.9232	7.86
Xanthurenic acid	0.01 - 1	0.98 ± 0.02	0.9998	10.96
5-HIAA	0.01 - 1	1.56 ± 0.07	0.9456	21.70
Homovanillic acid	0.01 - 1	0.87 ± 0.04	0.9330	21.66
Anthranilic acid	0.01 - 1	1.19 ± 0.02	0.9978	30.61