

Table S1 Degradation rates of E2 by *Sphingomonas* sp. with/without various carbon sources at different stages of incubation

Time intervals (h)	E2 alone ($\mu\text{g}/(\text{L}\cdot\text{h})$)	Time intervals (h)	E2 with other carbon sources ($\mu\text{g}/(\text{L}\cdot\text{h})$)
0-24	34.8	0-24	27.9
24-72	5.2	24-48	21.3
		48-72	10.6
72-210	2.2	72-102	1.7
		102-210	0.1

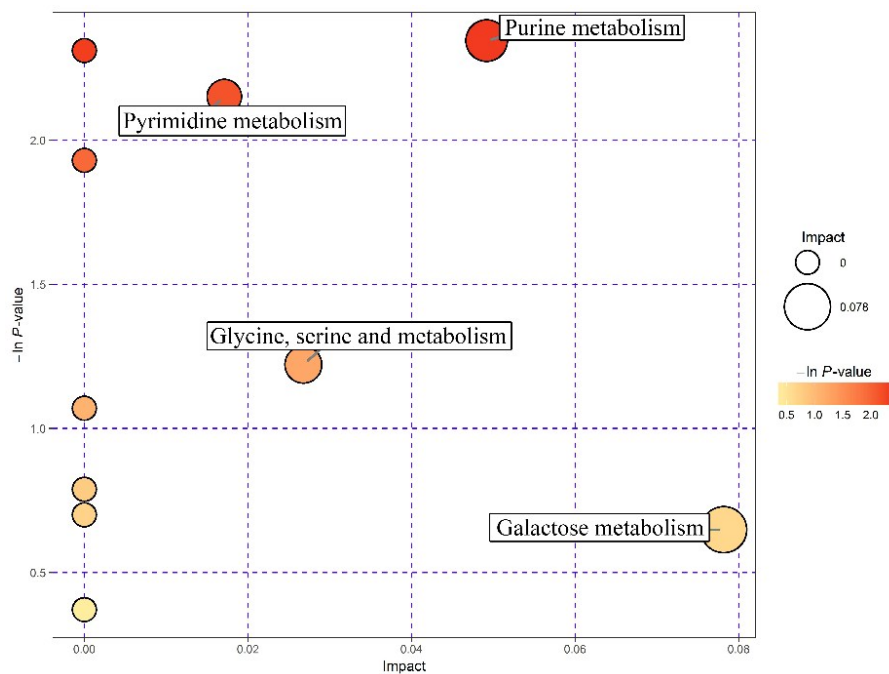


Fig. S1 Bubble plot of centralized metabolic pathway in the presence of E2. Each bubble represents a metabolic pathway. The abscissa (bubble size) represents the influential factor in the topology analysis. The larger the size is, the higher the impact factor. The ordinate (bubble color) represents the P value (normalized as the negative natural logarithm, i.e. $-\ln P$ -value). The deeper the color, the smaller the P value, and the more significantly enriched the metabolic pathway is