

Violin plot showing the distribution of separability across individuals for 18 different samples. The y-axis represents 'Separability across individuals' from -0.5 to 1.0. The x-axis lists the samples: cad, blood, skin, bile, sperm, cys, arg, food, nucl, his, put, afw, pgf2a, phe, met, amo, cs, and urea. Each violin plot shows the density of data points, with a black horizontal line indicating the median. Above each violin, the mean and standard deviation are provided, and below, the P-value is shown. Samples with P-values less than 0.05 are highlighted in red.

Sample	Mean ± SD	P-value
cad	0.3923 ± 0.3425	P=1.8e-06
blood	0.3876 ± 0.3539	P=0.00082
skin	0.2620 ± 0.3205	P=0.0069
bile	0.1663 ± 0.2558	P=0.00042
sperm	0.1483 ± 0.3453	P=0.0061
cys	0.1300 ± 0.3801	P=0.048
arg	0.1159 ± 0.2587	P=0.011
food	0.0952 ± 0.3286	P=0.091
nucl	0.0757 ± 0.2857	P=0.17
his	0.0628 ± 0.2938	P=0.21
put	0.0598 ± 0.2652	P=0.31
afw	0.0557 ± 0.1698	P=0.033
pgf2a	0.0530 ± 0.2514	P=0.21
phe	-0.0262 ± 0.3055	P=0.61
met	-0.0430 ± 0.2079	P=0.28
amo	-0.0519 ± 0.2592	P=0.3
cs	-0.0735 ± 0.1910	P=0.052
urea	-0.1244 ± 0.2892	P=0.031

Heatmap showing the distribution of chemical compounds across 14 conditions. The compounds are listed on the y-axis: OCT, 1-hexanol, ethyl-lactate, citronella, 2-heptanone, 1-pentanol, ethanol, geranyl-acetate, hexyl-acetate, MCH, pentyl-acetate, and 1-butanol. The conditions are listed on the x-axis: DA1, DL3, DL1, DL5, DM3, DM6, DA2, DA4I, D, DM5, DM2, DM1, DM4, and DL4. A text box in the center indicates $n = 84/168 = 50.00\%$. The heatmap shows a complex pattern of presence (dark blue) and absence (light blue) for each compound across the conditions.

serotonin-blocked

n = 40/168 = 23.81%

Odor	DA1	DL3	DL1	DL5	DM3	DM6	DA2	DA4I	D	DM5	DM2	DM1	DM4	DL4
OCT	1	0	1	1	0	0	1	1	0	1	0	0	0	0
1-hexanol	0	0	1	1	0	0	1	1	1	1	1	0	0	0
ethyl-lactate	0	0	1	1	0	0	1	1	1	1	0	0	1	0
citronella	1	0	0	0	0	0	1	1	1	1	0	0	0	0
2-heptanone	1	0	0	0	0	0	1	1	1	1	1	0	0	0
1-pentanol	0	0	0	0	0	0	1	1	1	1	0	1	0	0
ethanol	0	0	0	0	0	0	1	1	1	1	0	0	0	0
geranyl-acetate	0	0	0	0	0	0	1	1	1	1	0	0	0	0
hexyl-acetate	1	0	0	0	1	0	1	1	1	1	0	0	0	1
MCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pentyl-acetate	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1-butanol	1	0	1	0	0	0	1	0	1	1	1	1	0	0