Array-based disease diagnostics using lipid/polydiacetylene vesicles encapsulated in a sol-gel matrix

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Figure 1, SI: Plasma-induced colorimetric transitions shown in box-plots. Presented are the colorimetric data for the 17 lipid compositions. The middle bold lines correspond to the *median* color-response, the colored boxes account for the first bottom and top *quartiles*, respectively, while the broken vertical lines span the next two quartiles. Outlier data-points are depicted as circles.

Composition 2

Composition 3

Composition 4

Composition 6

Composition 5

n6

Composition 8

Composition 9

Composition 10

Composition 11

Composition 12

Composition 13

Composition 14

Composition 15

Composition 16

Composition 17

Supplemental Table 1:

Mann-Whitney statistical analysis of *gender-* and *age-effects*, respectively, upon the colorimetric responses of the chromatic detectors. The effect of gender is calculated per all 84 samples and the effect of age is calculated within each class group.

Chromatic detector	Gender	Age			
		Clinical group			
		ALS	Neurogenic non-ALS	IBD	Control
n1	0.334	1.000	0.456	0.614	0.557
n2	0.249	0.962	0.902	0.479	1.000
n3	0.258	0.813	0.318	0.139	0.349
n4	0.520	0.962	0.456	0.264	0.051
n5	0.487	0.601	0.318	0.840	0.314
n6	0.494	0.740	1.000	0.579	0.809
n7	0.597	0.230	0.318	0.044	0.152
n8	0.576	0.043	0.128	0.880	0.223
n9	0.901	0.813	0.710	1.000	0.605
n10	0.145	0.109	0.165	0.724	0.654
n11	0.541	0.475	0.259	0.511	0.512
n12	0.299	0.813	1.000	0.050	0.043
n13	0.309	0.109	0.259	0.724	0.605
n14	0.431	0.270	0.383	0.545	0.282
n15	0.820	0.270	0.620	0.920	0.557
n16	0.844	0.417	0.259	0.687	0.705
n17	0.576	0.230	0.456	0.920	0.426

Supplemental Table 2:

Mann-Whitney analysis of the colorimetric response differences per each chromatic detector for every possible pair (6 total pairs) of the 4 class groups (ALS, IBD, neurological non-ALS, control).

Chromatic detector	ALS/IBD	ALS/Control	ALS/ non-ALS	IBD/Control	IBD/ non-ALS	Control/ non-ALS
n1	0.678	0.971	0.5	0.643	0.694	0.526
n2	0.462	0.101	0.192	0.135	0.714	0.284
n3	0.21	0.895	0.377	0.04	0.674	0.071
n4	0.502	0.001	0.259	0.017	0.059	1.56E-05
n5	0.007	0.019	0.077	0.333	0.0005	7.86E-05
n6	0.195	0.857	0.047	0.135	0.333	0.024
n9	0.558	0.231	0.796	0.076	0.362	0.429
n10	0.065	0.352	0.051	0.001	0.674	0.003
n11	0.174	0.00039	0.129	0.053	0.01	1.89E-05
n12	0.005	0.26	0.04702	0.028	0.839	0.147
n13	0.975	0.328	0.056	0.428	0.121	0.009
n15	0.488	0.036	0.769	0.011	0.294	0.107
n16	0.16	0.304	0.986	0.017	0.135	0.448
n17	0.572	0.001	0.666	0.098	0.559	0.001