Supporting Information

Contributions of phenoxazone-based pigments to the structure and function of nanostructured granules in squid chromatophores

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Supplemental

Table S1: Mass fraction remaining of the separated granule components.

Granules	4.293 mg				
	Pigment- Extracted Granules	1.700 mg	39.60%		
	Extracted Pigment	2.472 mg	57.58%		
		Extraction Yield	1.554 mg	62.86%	
			1	0.326 mg	21.0%
			2	0.330 mg	21.2%
			3	0.602 mg	38.7%
			4	0.296 mg	19.0%

Table S2: Rf values of separated pigments and reference dyes. n=22.

Compound	Rf	Std. Dev.
Band 1 (yellow)	0.55	0.01
Band 2 (pink)	0.41	0.02
Band 3 (orange)	0.34	0.01
Band 4 (purple)	0.09	0.005
Amaranth	0.16	0.01
Napthol	0.35	0.04
Fluorescein	0.61	0.08

Table S3: Mass spectra data of known ommochromes found in bands i-iv.

Band i						
Compound	**Elemental Comp.**	**m/z (theoretical)**	**RT**	**m/z (observed)**	**Δ (ppm)**	**NL**
Xanthommatin	C20H13N3O8	424.0775	17.54	424.0761	-3.30128	1.32E+05
Decarboxylated Xanth.	C19H13N3O6	380.0887	15.23	380.0865	-5.78812	1.15E+06
Band ii						
Compound	**Elemental Comp.**	**Monoisotopic Mass**	**Time**	**MS m/z**	**Δ (ppm)**	**NL**
Xanthommatin	C20H13N3O8	424.0775	18.73	424.0761	-3.30128	1.18E+06
Decarboxylated Xanth.	C19H13N3O6	380.0887	15.08	380.0865	-5.78812	1.12E+06
Band iii						
Compound	**Elemental Comp.**	**Monoisotopic Mass**	**Time**	**MS m/z**	**Δ (ppm)**	**NL**
Xanthommatin	C20H13N3O8	424.0775	17.75	424.0758	-4.0087	4.67E+06
Decarboxylated Xanth.	C19H13N3O6	380.0887	15.35	380.0864	-6.05122	1.14E+06
Band iv						
Compound	**Elemental Comp.**	**Monoisotopic Mass**	**Time**	**MS m/z**	**Δ (ppm)**	**NL**
Xanthommatin	C20H13N3O8	424.0775	17.48	424.076	-3.53709	1.23E+06
Decarboxylated Xanth.	C19H13N3O6	380.0887	15.38	380.0882	-1.31548	1.13E+05