

Table S1. Factor loading matrix of the four principal components.

Treatment Time	Principal Components	Positive Scoring Coefficients	Negative Scoring Coefficients
Day 1	PC1 (40.71%)	F440/F520 (0.475) F440/F690 (0.416) F440/F740 (0.315) F440 (0.273)	F690/F740 (−0.409) F520 (−0.313) F520/F740 (−0.312) F690 (−0.232)
	PC2 (31.77%)	F740 (0.487) F690 (0.422)	F690/F740 (−0.484)
	PC3 (21.50%)	F440 (0.531) F520 (0.524) F740 (0.323) F520/F690 (0.316) F690 (0.287) F440/F740 (0.246) F440/F690 (0.226) F520/F740 (0.202)	—
	PC4 (5.78%)	F690/F740 (0.682) F440/F740 (0.420) F440/F520 (0.266) F690 (0.242)	F520/F690 (−0.378)
Day 3	PC1 (49.66%)	F440/F690 (0.435) F440/F740 (0.418) F440/F520 (0.328) F520/F690 (0.280) F440 (0.213)	F690 (−0.407) F740 (−0.362) F520 (−0.237)
	PC2 (22.52%)	F520/F740 (0.602) F520 (0.455) F520/F690 (0.411) F690/F740 (0.260)	F440/F520(−0.403)
	PC3 (15.14%)	F440 (0.520) F740 (0.445) F520 (0.397) F520/F690 (0.255)	F690/F740(−0.498)
	PC4 (12.45%)	F690/F740 (0.557) F440 (0.536) F690 (0.345) F440/F740 (0.291) F440/F520 (0.280)	F520/F690 (−0.322)
Day 5	PC1 (66.28%)	F520/F690 (0.384) F520/F740 (0.372) F440/F690 (0.371) F440/F740 (0.345) F520 (0.318) F440 (0.205)	F690 (−0.352) F740 (−0.292) F440/F520 (−0.240) F690/F740 (−0.219)
	PC2 (12.68%)	F740 (0.563) F440 (0.527) F520 (0.296)	F690/F740 (−0.484)
	PC3 (11.66%)	F440/F520 (0.678) F440 (0.496) F440/F740 (0.370) F690/F740 (0.218)	F520 (−0.203)
	PC4 (9.03%)	F690/F740 (0.603) F520 (0.429) F690 (0.402) F440 (0.299) F520/F740 (0.226)	F440/F520 (−0.292) F440/F690 (−0.210)
Day 7	PC1 (69.15%)	F520/F690 (0.376) F440/F690 (0.366) F520/F740 (0.365) F440/F740 (0.347) F520 (0.325) F440 (0.262)	F690(−0.343) F740 (−0.285) F440/F520 (−0.227) F690/F740 (−0.216)
	PC2 (11.85%)	F740 (0.600) F520 (0.300) F440 (0.276)	F690/F740 (−0.567) F440/F740 (−0.273)

Day 9	PC3 (10.21%)	F440/F520 (0.764) F440 (0.460) F440/F690 (0.234) F440/F740 (0.213)	F520 (−0.202)
	PC4 (8.45%)	F690/F740 (0.561) F440 (0.505) F690 (0.438) F520 (0.373)	---
	PC1 (71.03%)	F440/F690 (0.371) F520/F690 (0.364) F440/F740 (0.363) F520/F740 (0.346) F440 (0.335) F520 (0.285)	F690(−0.343) F740 (−0.277) F690/F740 (−0.228)
	PC2 (11.24%)	F740 (0.548) F520 (0.448)	F690/F740 (−0.512) F440/F520 (−0.386)
	PC3 (10.40%)	F440/F520 (0.672) F740 (0.253)	F690/F740 (−0.445) F520/F740 (−0.370) F520 (−0.310)
	PC4 (7.01%)	F440 (0.480) F690 (0.455) F690/F740 (0.433) F520 (0.368) F440/F520 (0.344) F740 (0.257)	---

Note: Only loadings ≥ 0.2 were selected.