Supporting Information

Phytochemicals profiling in single plant cell by High Performance Liquid Chromatography-Mass Spectrometry

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Figure S1 Fluorescent microscopic image of purple cells and colorless cells (A) and fluorescent emission spectrum of two purple cells (cell 1 and cell 2) and a colorless cell (cell 3) (B). The excitation wavelength was 514 nm.
Figure S2 Structures of cyanidin 3-(2G-xylosylrutinoside) and cyanidin 3-O-glucoside.
Figure S3 Multiple extracted ion chromatographs of the mixture of three standards (A) and purple cells extract (B). The HPLC-MS conditions were the same for both samples.
Figure S4 Product ion spectra of cyanidin 3-(2G-xylosylrutinoside) in purple cells (A), cyanidin 3-O-glucoside standard (B), quercetin 3-galactoside in purple cells (C), quercetin 3-galactoside standard (D), rutin in purple cells (E), and rutin standard (F).
Figure S5 UV-Vis spectra (A) and fluorescence spectra (B) of purple cells and standard solutions of target phytochemicals. The fluorescence excitation wavelength was 515 nm.