

Supporting information

Blue fluorogenic probes for cell plasma membranes fill the gap in multicolour imaging

Remy Kréder, Sule Oncul, Oleksandr A. Kucherak, Kyrylo A. Pyrshev, Eleonore Real, Yves Mély, Andrey S. Klymchenko

Synthesis of probes

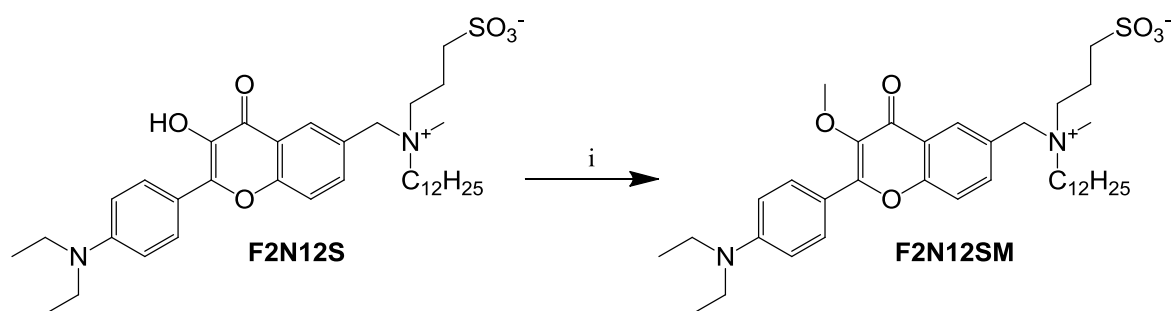


Figure S1. Synthesis scheme of the probe F2N12SM.

(i) MeI, K₂CO₃, MeOH, RT overnight (80%).

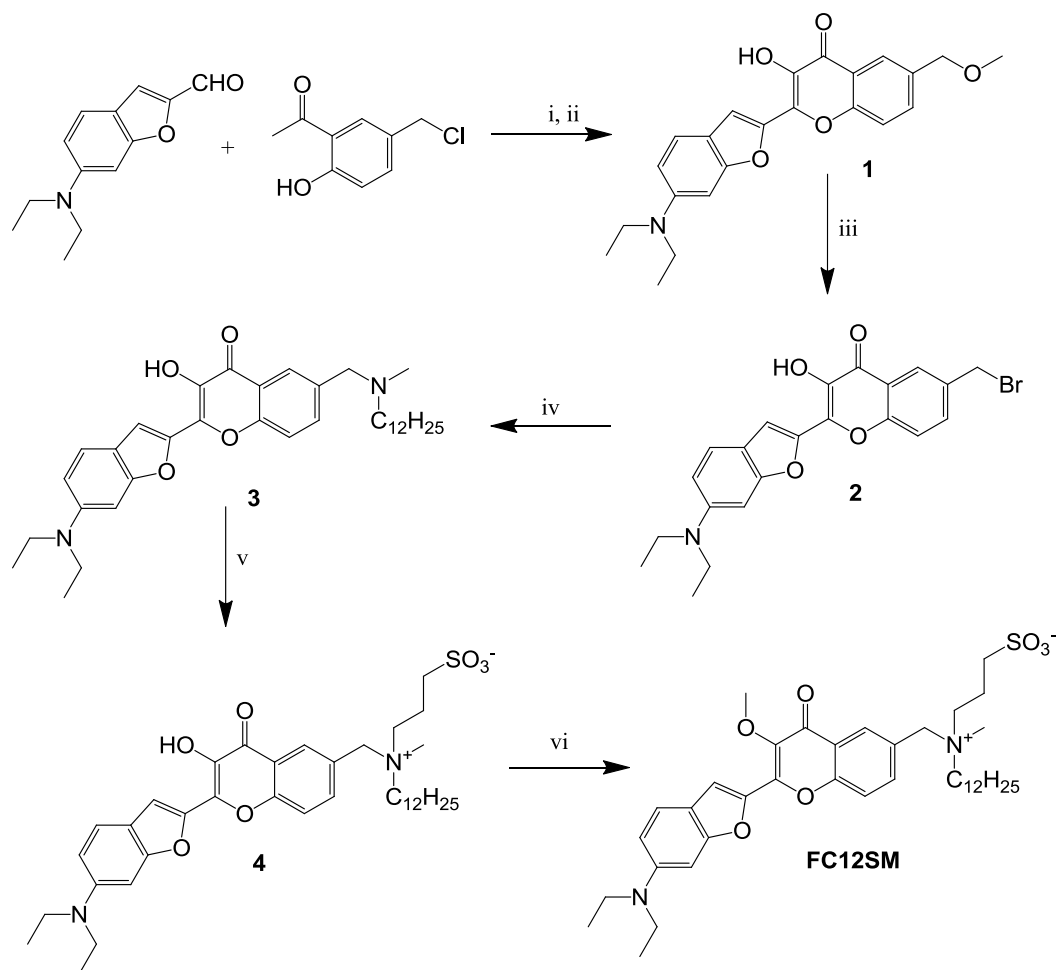


Figure S2. Synthesis scheme of the probe FC12SM.

(i) NaOMe, DMF, RT, 24h; (ii) NaOMe, EtOH, H₂O₂, reflux, 5 min (30% two steps); (iii) HBr 48%, 100 °C, 10 min (85%); (iv) THF, N-methyldodecylamine, RT, 2h (25%); (v) 1,3-propanesultone, CH₃CN, 100°C, 24h (33%), (vi) MeI, K₂CO₃, MeOH, RT overnight (85%).

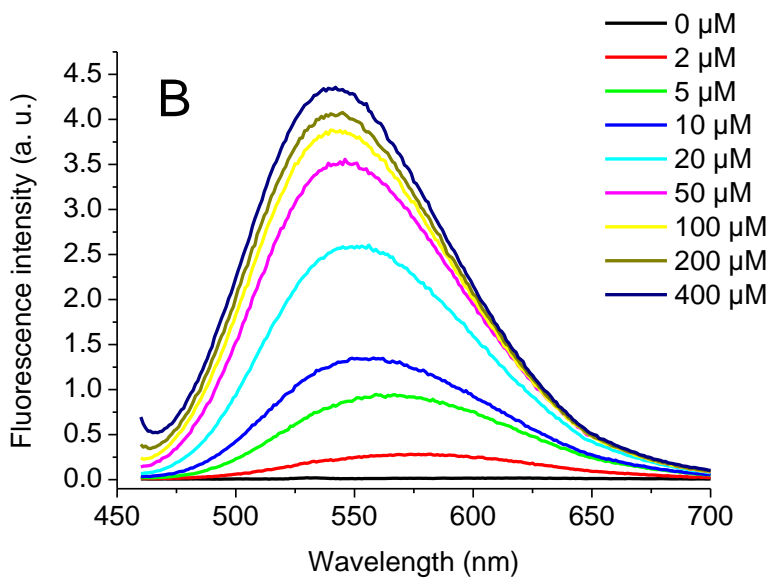
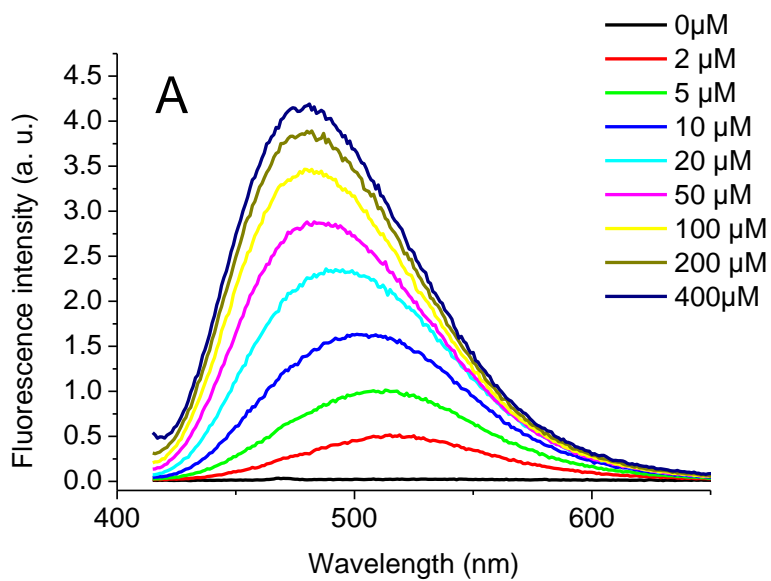


Figure S3. Fluorescence spectra of F2N12SM and FC12SM probes (200 μM) in the presence of lipid vesicles at different lipid (DOPC) concentrations.

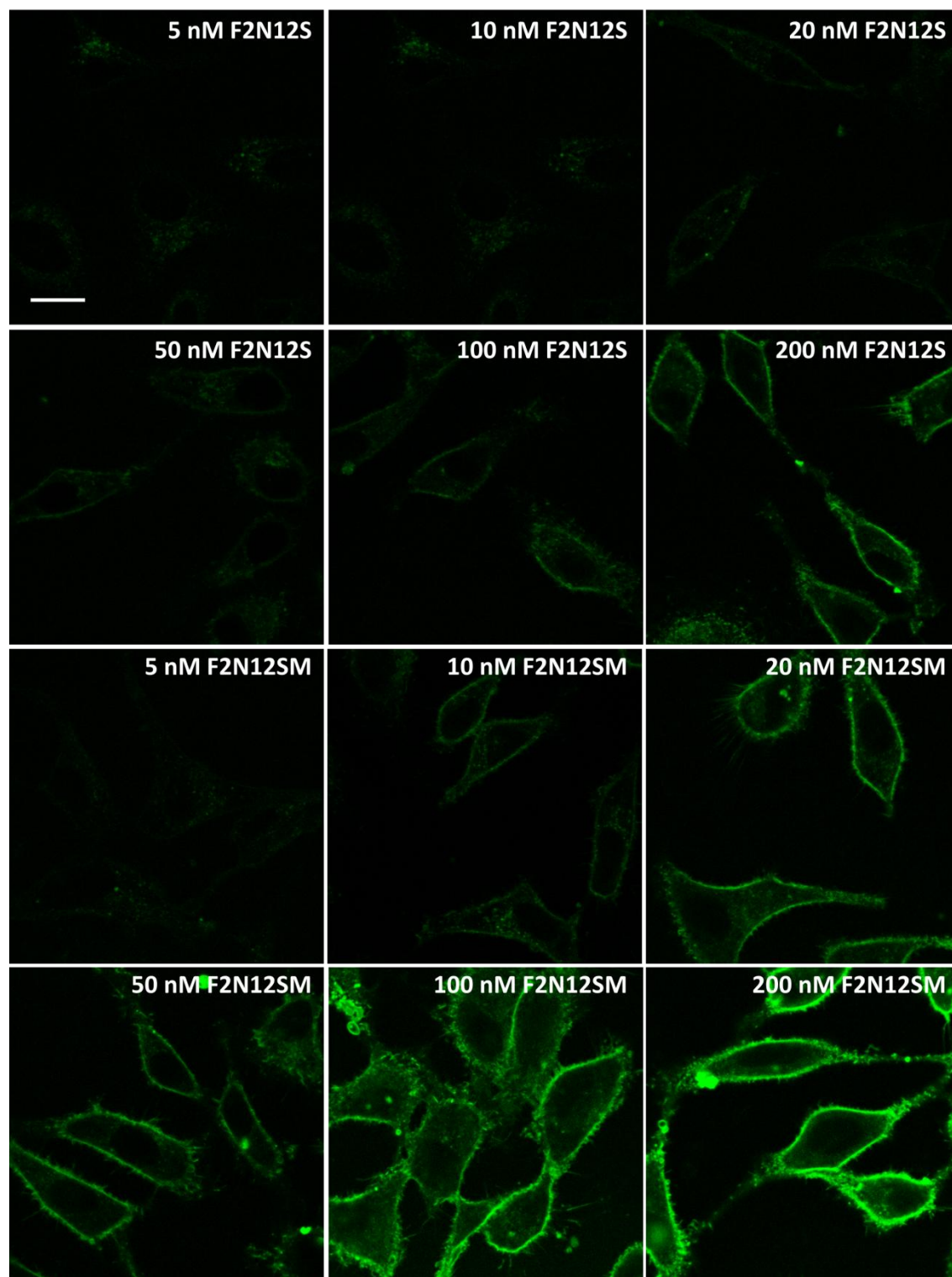


Figure S4. Fluorescence confocal images of HeLa cells stained with different concentrations of F2N12S or F2N12SM in Opti-MEM. Laser excitation wavelength was 405 nm. The emission was detected between 450 and 630 nm. Scale bar is 20 μm .