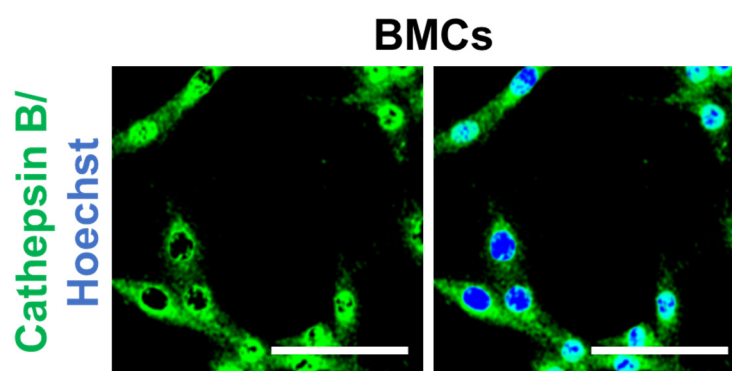


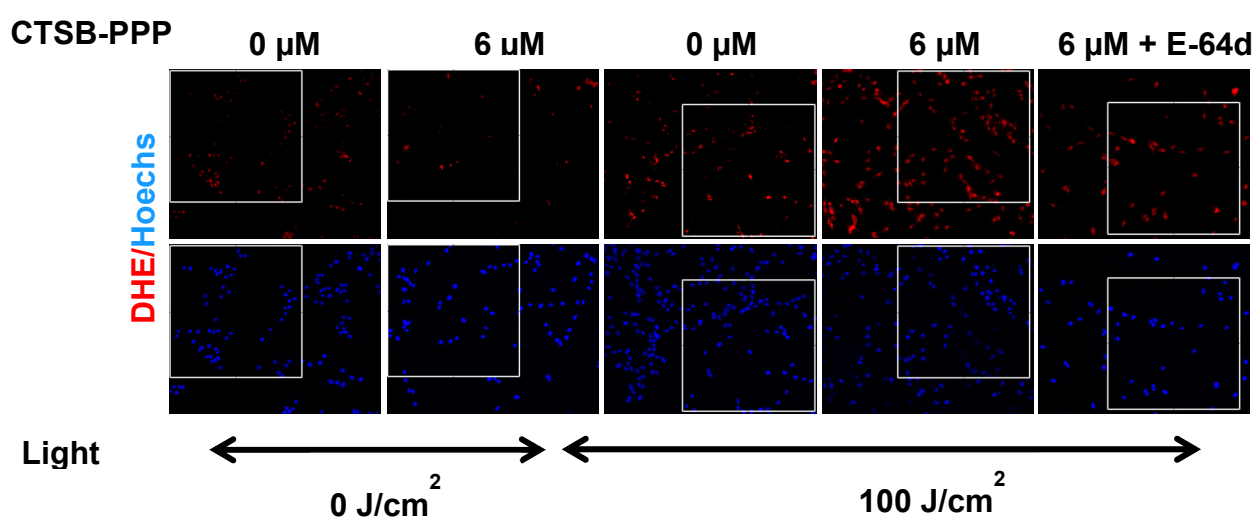
Article

# Cathepsin B cleavable-polymeric photosensitizer prodrug for selective photodynamic therapy: *In Vitro* Studies

Manish Jain <sup>1,5</sup>, Jordan Bouilloux <sup>2</sup>, Ines Borrego <sup>1</sup>, Stéphane Cook <sup>1,6</sup>, Hubert van den Bergh <sup>3</sup>, Norbert Lange <sup>2</sup>, Georges Wagnieres <sup>4</sup>, Marie-Noelle Giraud <sup>1\*</sup>



**Supplementary Figure S1: Expression of Cathepsin B in BMCs.** Representative images showing immunostaining for Cathepsin B (red) in BMCs isolated from rat bone marrow. Nuclei are counterstained with Hoechst (blue). Scale bars: 100  $\mu\text{m}$ .



**Supplementary Figure S2. (A) Original** fluorescent photomicrograph of DHE (red; Up-per panel and Hoechst staining (blue; bottom panel)

Supplementary Table S1- Related analysis for Figure 3A

Time	0 Min	10 Min	20 Min	60 Min	24 h
CTSB-PPP	304.876	1453.019	2100.603	3153.928	2762.526
Fluorescence	234.5927	2444.654	2466.619	3460.447	3281.686
Intensity	295.0668	1899.411	2064.937	4140.803	3090.593

Supplementary Table S2- Related analysis for Figure 4B

Time	0 Min	10 Min	20 Min	60 Min	24 h
CTSB-PPP 6 $\mu$ M	3053.079	85468.01	78170.87	184230	44379.67
Light Dose (100 J/cm <sup>2</sup> )	46756.5	22664.46	17795.49	182681	90766.75
E-64d (50 $\mu$ M)	17301.85	24167.12	42616.14	240514	124910.3

Supplementary Table S3- Related analysis for Figure 7

CTSB-PPP 0 $\mu$ M	CTSB-PPP 3 $\mu$ M	CTSB-PPP 6 $\mu$ M	CTSB-PPP 12 $\mu$ M	CTSB-PPP 24 $\mu$ M	CTSB-PPP 48 $\mu$ M	CTSB-PPP 6 $\mu$ M + E-64d (50 $\mu$ M)	CTSB-PPP 12 $\mu$ M + E-64d (50 $\mu$ M)
304.876	1352.165	4187.510	1713.500	4286.285	2987.563	6707.696	7909.174
234.593	1326.665	3557.992	2518.688	3855.739	2865.938	7849.319	7992.087
295.067	951.514	4162.107	2727.938	5447.929	3201.813	5965.570	5803.124
		4787.583	2544.125	5745.100	2165.125		
			1064.313		2964.375		