# On a novel electro-stimulated drug delivery system based on PLLA composites exploiting the multiple functions of graphite nanoplatelets

Lorenza Gardella[1], Samuele Colonna[2], Alberto Fina[2], Orietta Monticelli[1]*

[1]Dipartimento di Chimica e Chimica Industriale, Università di Genova, Via Dodecaneso, 31, 16146 Genova, Italy

[2]Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino-sede di Alessandria, viale Teresa Michel, 5, 15121 Alessandria, Italy

*orietta.monticelli@unige.it
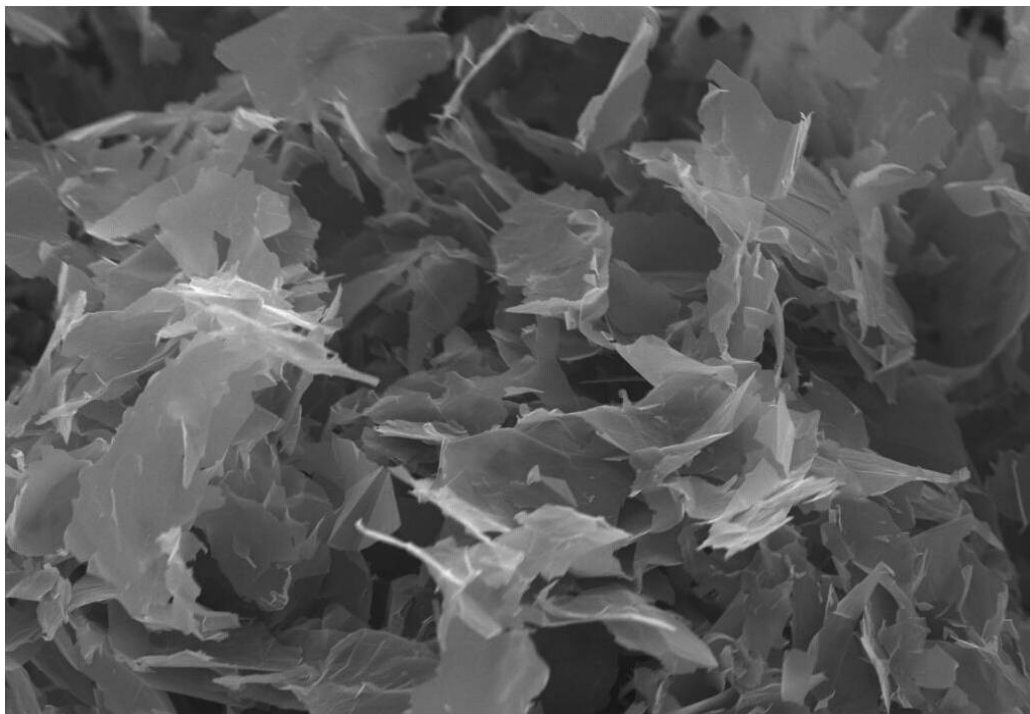
5μm

Figure S1. SEM micrograph of graphite nanoplatelets A12 grade from Graphene Supermarket
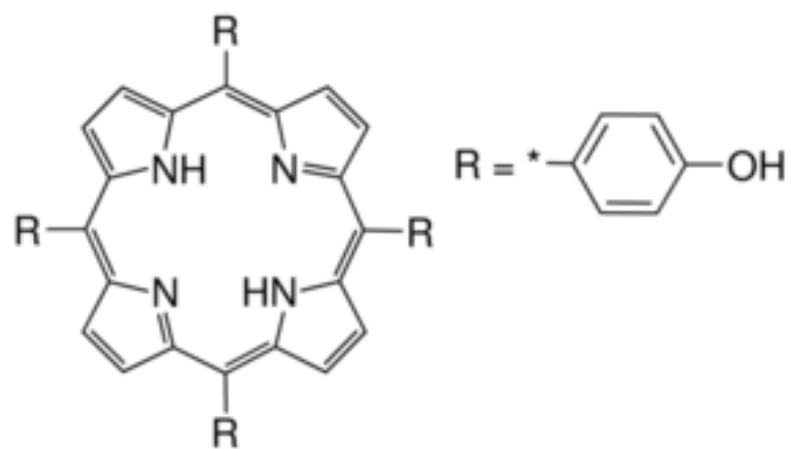
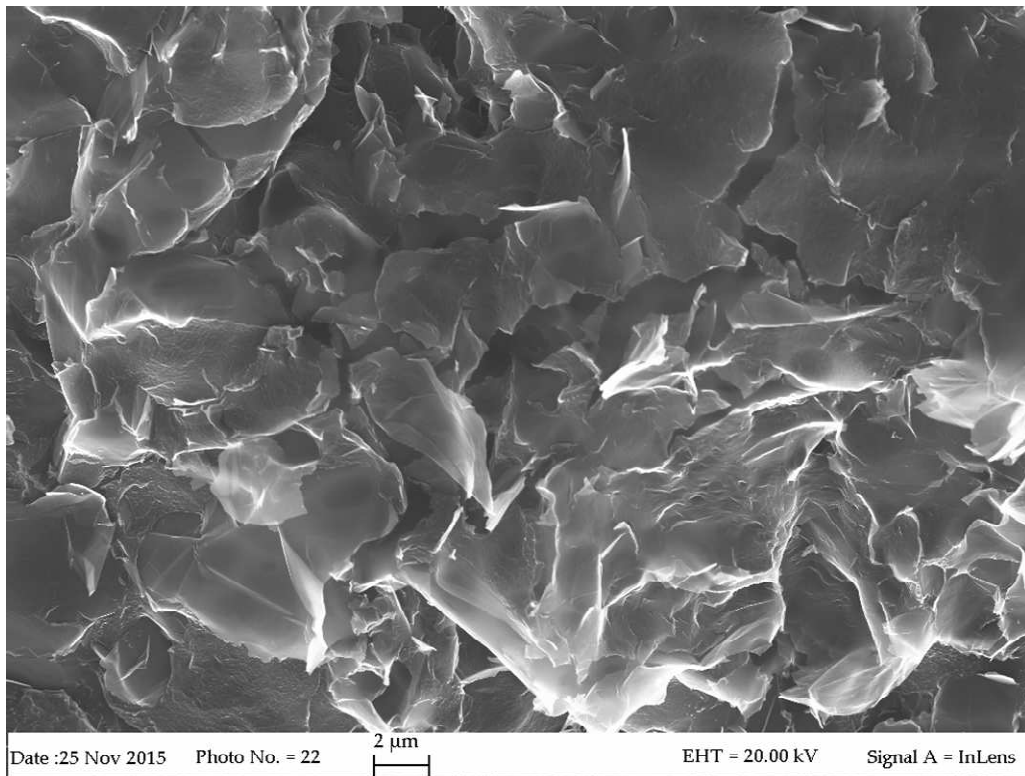**Figure S2**. 5,10,15,20-tetrakis(4-hydroxyphenyl)-porphyrin (THPP)

Date :25 Nov 2015   Photo No. = 22   2 µm   EHT = 20.00 kV   Signal A = InLens

Figure S3. FE-SEM micrograph of PLLA_G

Table S1. Characteristics of the used graphite

	x-y Dimension [μm]	Resistivity of the composite films [Ω·m]
Angstron N006	5	$1.3 \cdot 10^{7}$
Graphene Supermarket A12	8	$4.5 \cdot 10^{-2}$
Asbury TC-307	0.2	$1.6 \cdot 10^{7}$