Electronic Supplementary Information

An erodible polythiophene-based composite for biomedical applications

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**Fig S1A:** Build-up process of the multilayer system monitored by UV-Vis spectrophotometer. Absorbance measured after deposition of each layer. Odd layer number: PEI deposition. Even layer number: SPT deposition. Solid lines are drawn to guide the eye.

**S1B:** QCM data representing the exponential increase of the height of mBLs as function of the number of layers deposited.
Fig S2: UV-Vis spectra of doped (−) 5BLs and (…) 10BLs.
**Fig S3A:** A) GPC chromatograms of SPT and eroded products from 10BLNS films. **S3B:** UV-Spectrum of (—) SPT aqueous solution and (---) eroded products of 10BLNS films.