

SUPPORTING INFORMATION

Development of photoactivable glycerol-based coatings containing quercetin for antibacterial applications

Michael Condat, Julien Babinot, Somia Toumane, Jean-Pierre Malval, Inn-Kyu Kang, Faustine Spillebout, Pierre-Emmanuel Mazeran, Jacques Lalevée, Samir Abbad Andalloussi, Davy-Louis Versace*.

Figure S1.

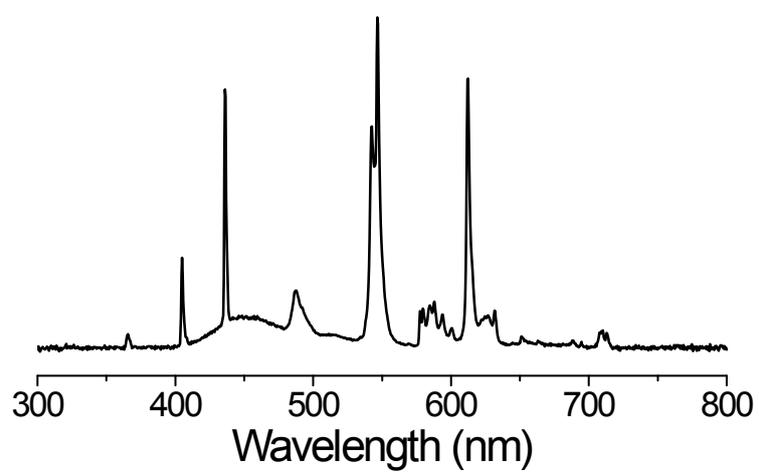


Figure S1. Emission spectrum of the lamps used during the different incubation times.

Figure S2.

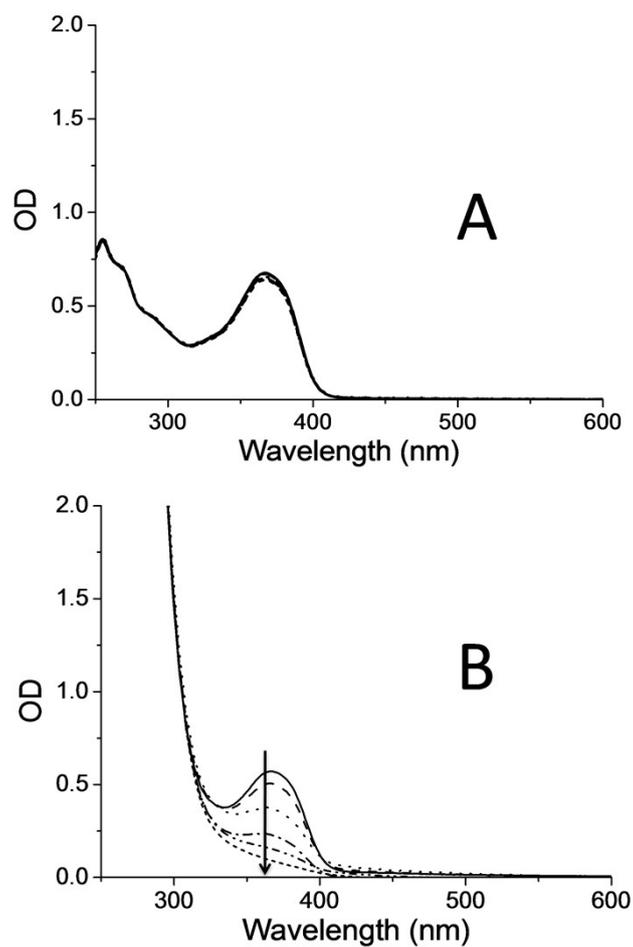


Figure S2. Evolution of the UV-visible spectra of A) quercetin alone and B) quercetin/Iod in ACN during irradiation. [Quercetin] = 3.5×10^{-5} M and [Iod] = 8.6×10^{-4} mol/L. ($I = 70$ mW.cm⁻²)

Figure S3.

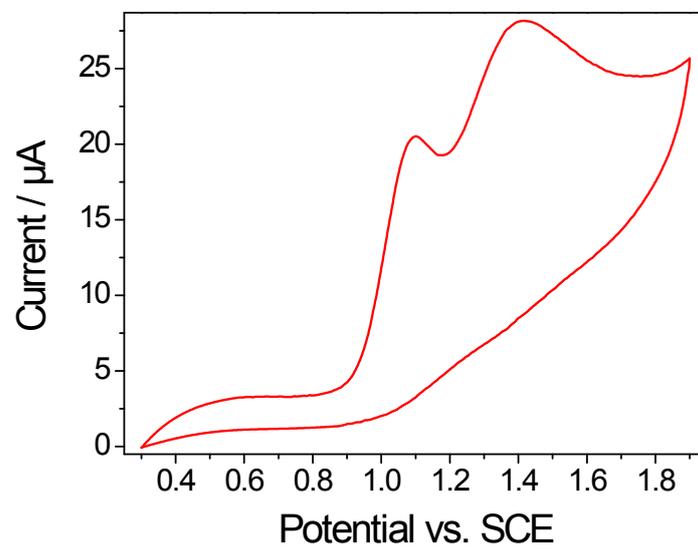


Figure S3. Cyclic voltammetry of quercetin in ACN

Figure S4.

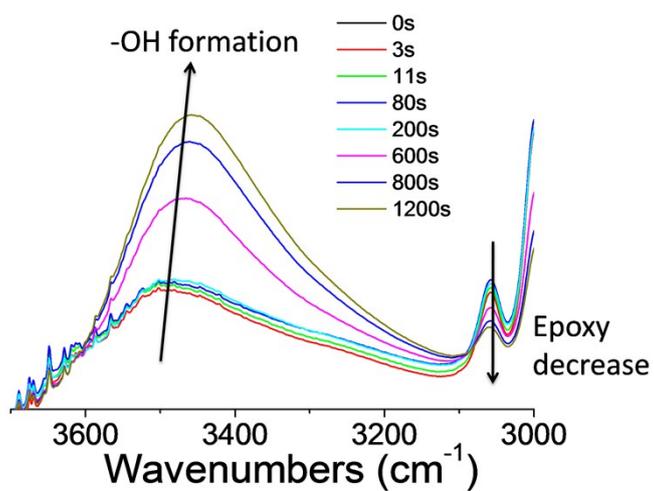


Figure S4. Evolution of the -OH band from the resulting polyether network during the 1200s of irradiation

Figure S5.

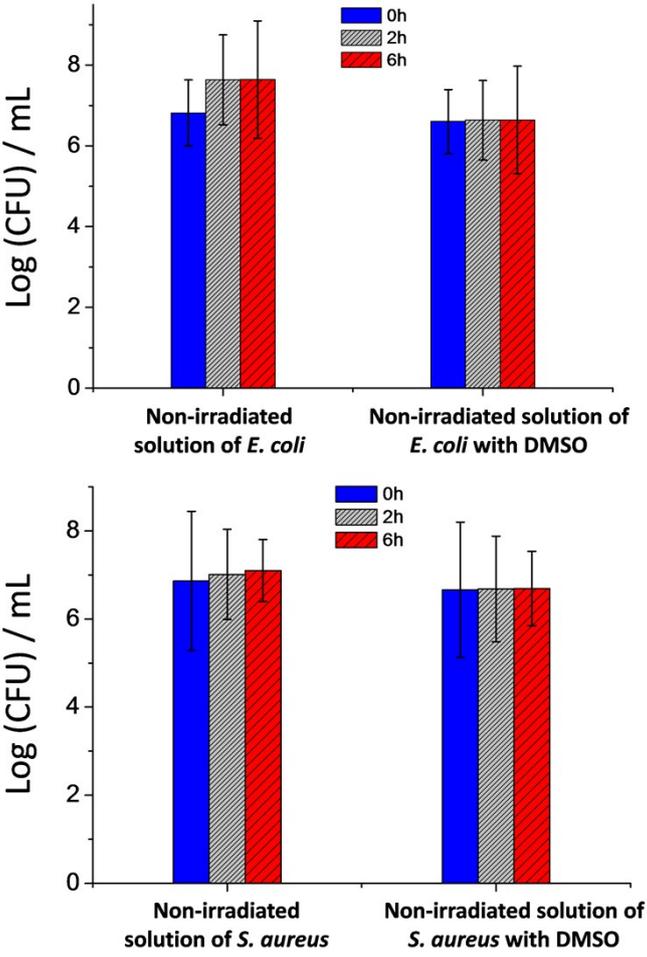


Figure S5. Influence of the incubation time (0, 2h, 6h), without illumination, on the growth of A) *E. coli* and B) *S. aureus* with and without DMSO.

Figure S6.

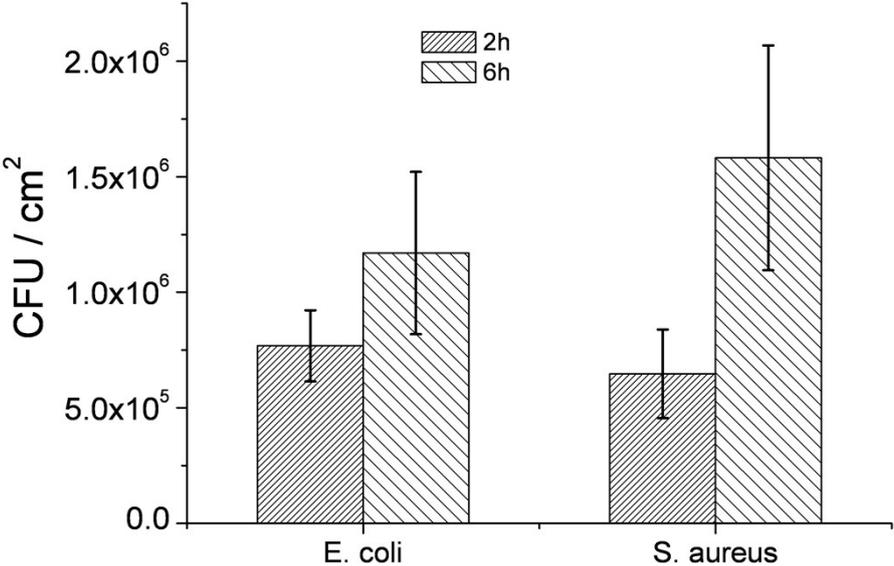


Figure S6. Evolution of the adhesion/proliferation of *E. coli* and *S. aureus* on the stainless steel substrate without coating.