

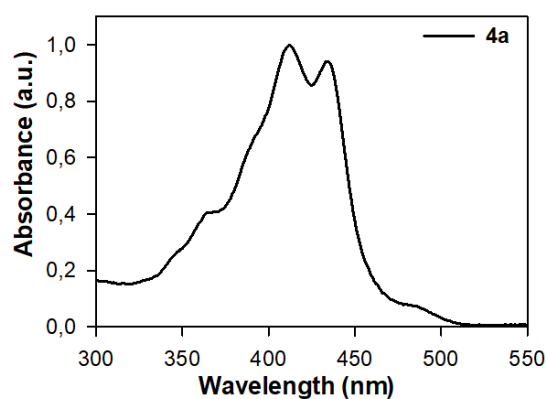
Supplementary Materials

# Preliminary Studies of Antimicrobial Activity of New Synthesized Hybrids of 2-Thiohydantoin and 2-Quinolone Derivatives Activated with Blue Light

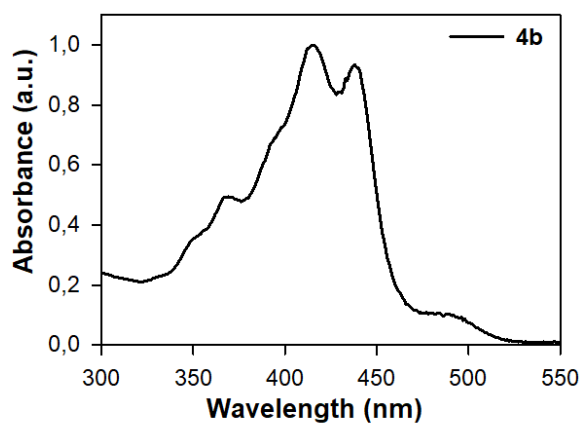
Agnieszka Kania <sup>1,\*</sup>, Waldemar Tejchman <sup>1</sup>, Anna M. Pawlak <sup>2</sup>, Krystian Mokrzyński <sup>2</sup>, Bartosz Rózanowski <sup>1</sup>, Bogdan M. Musielak <sup>3</sup> and Magdalena Greczek-Stachura <sup>1</sup>

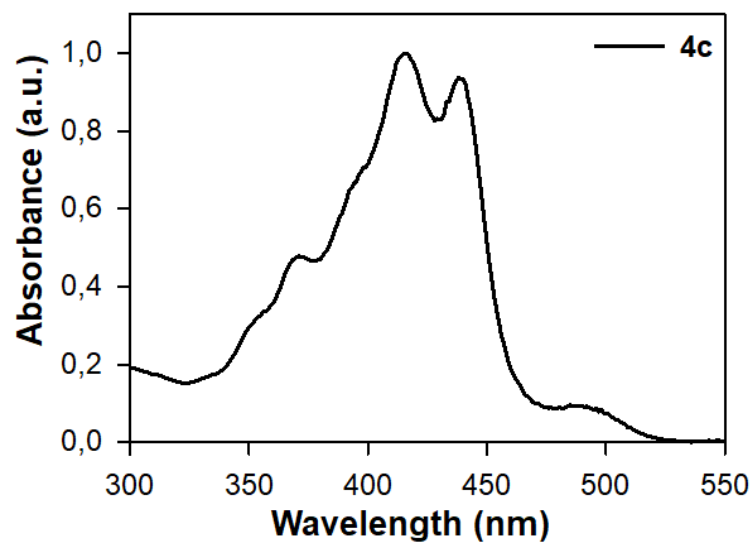
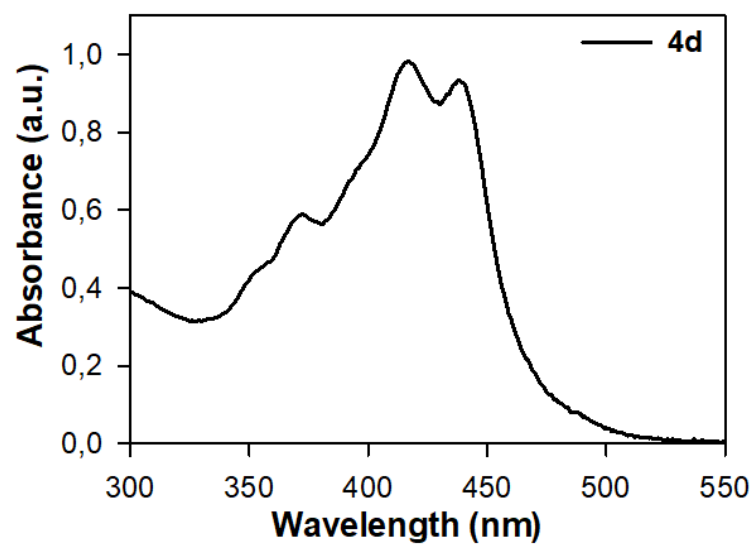
## 1. Absorption spectra

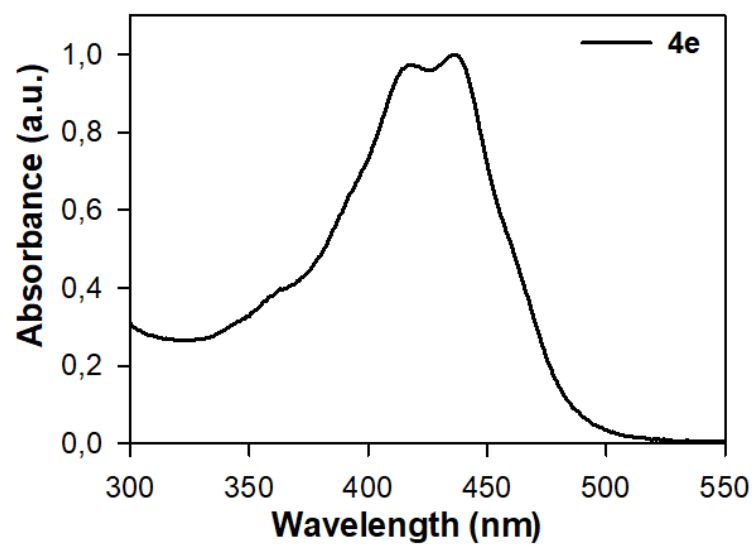
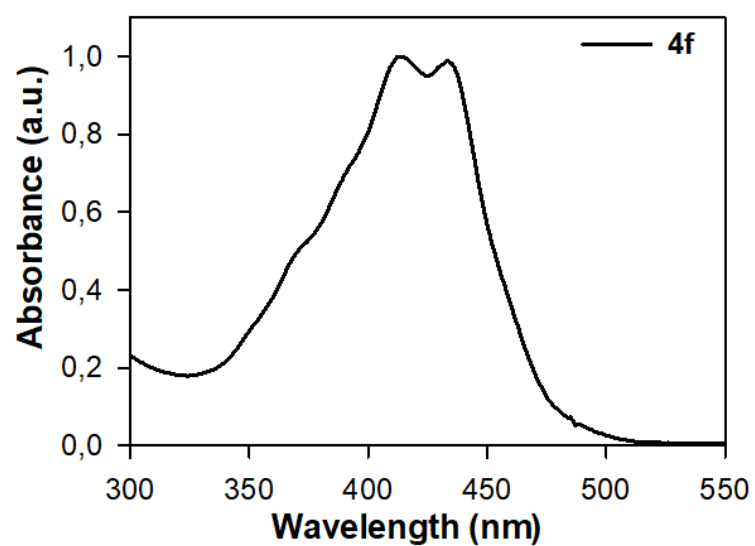
**A**

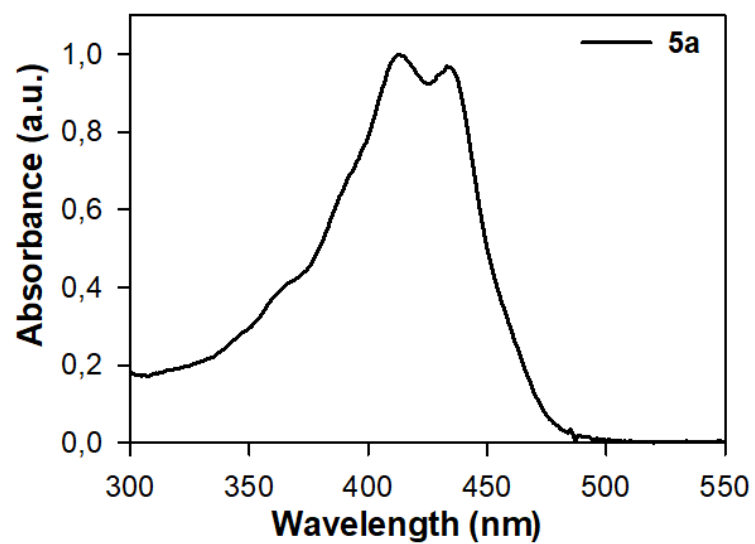
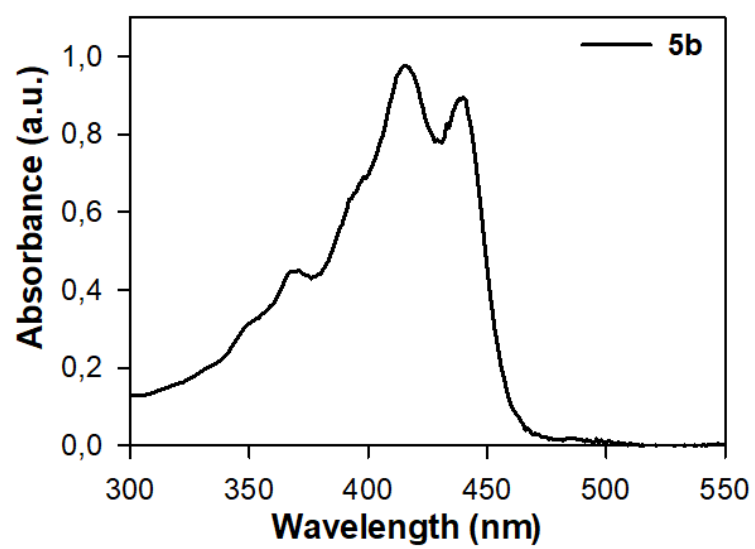


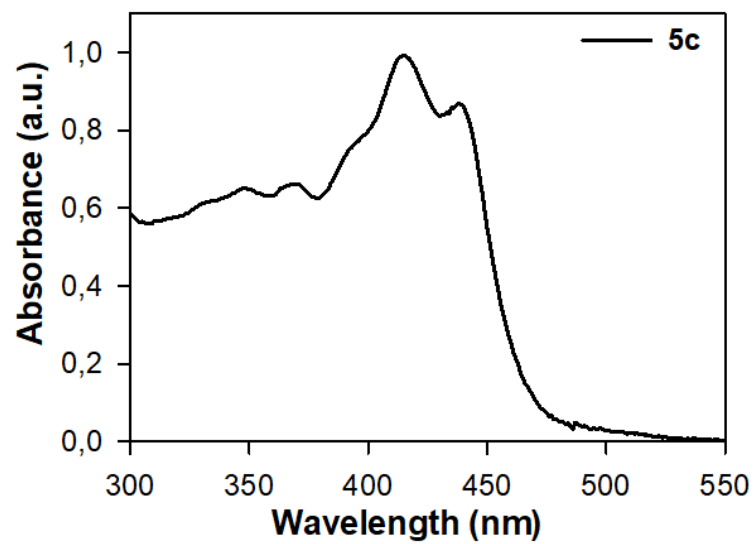
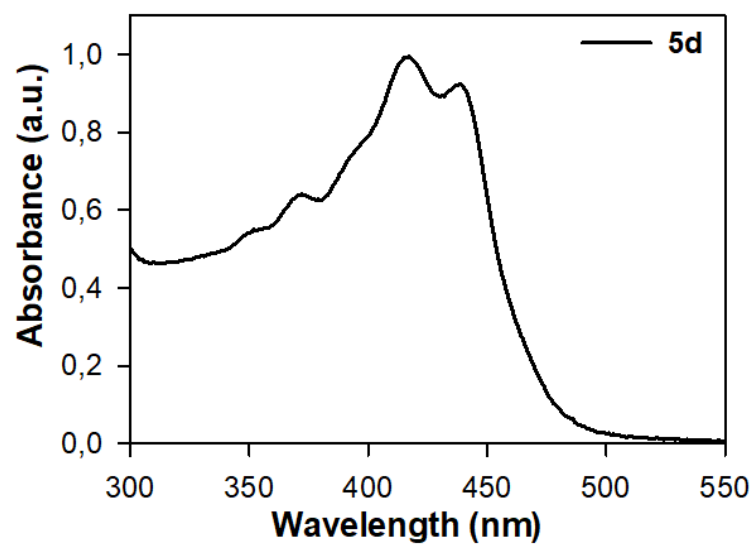
**B**

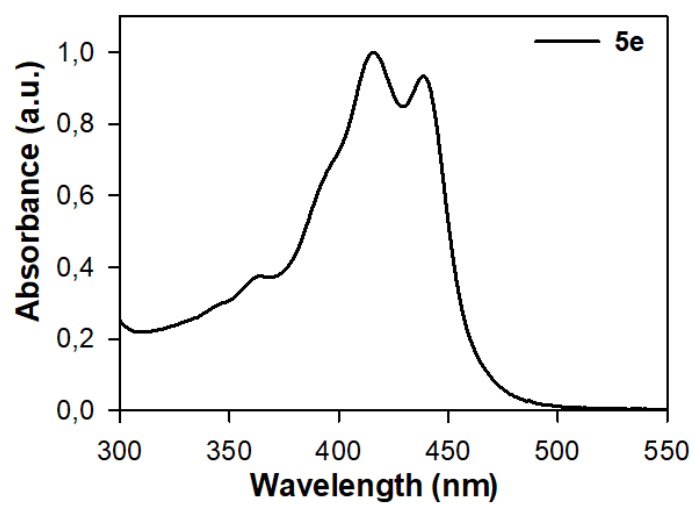
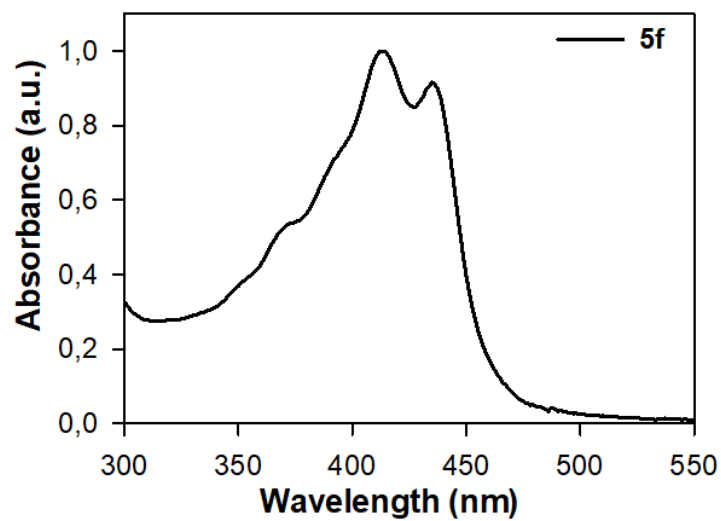


**C****D**

**F.****F**

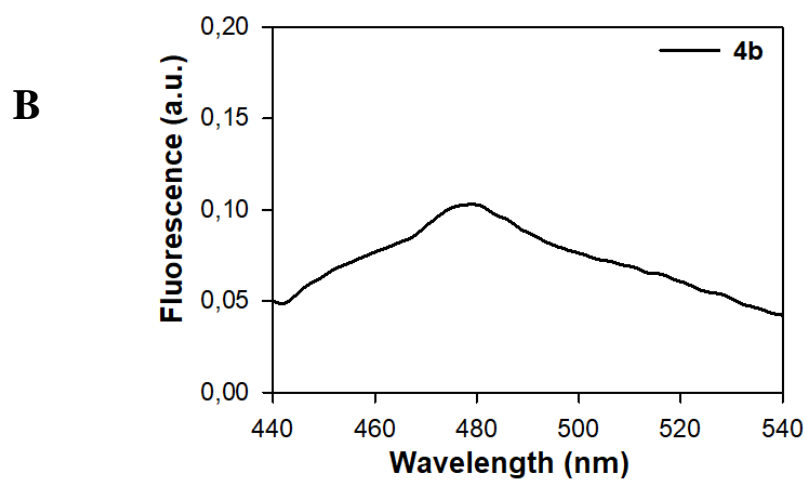
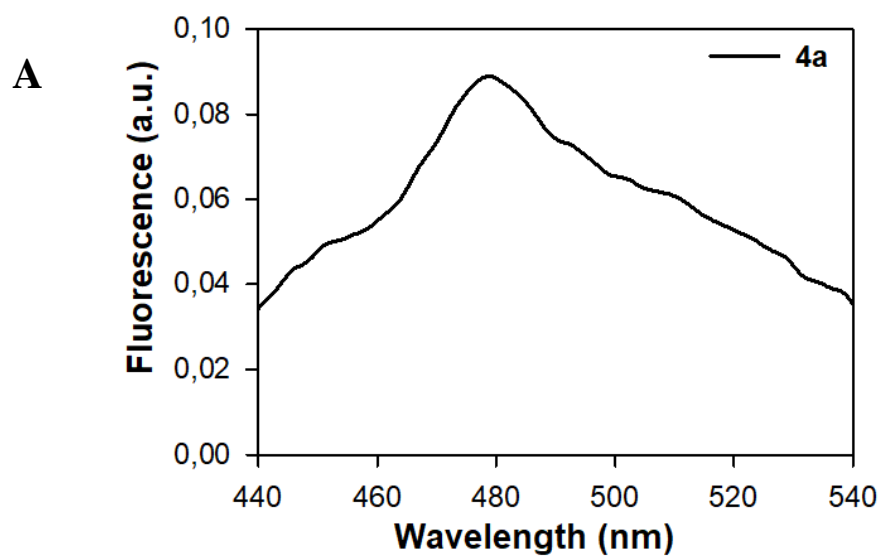
**G****H**

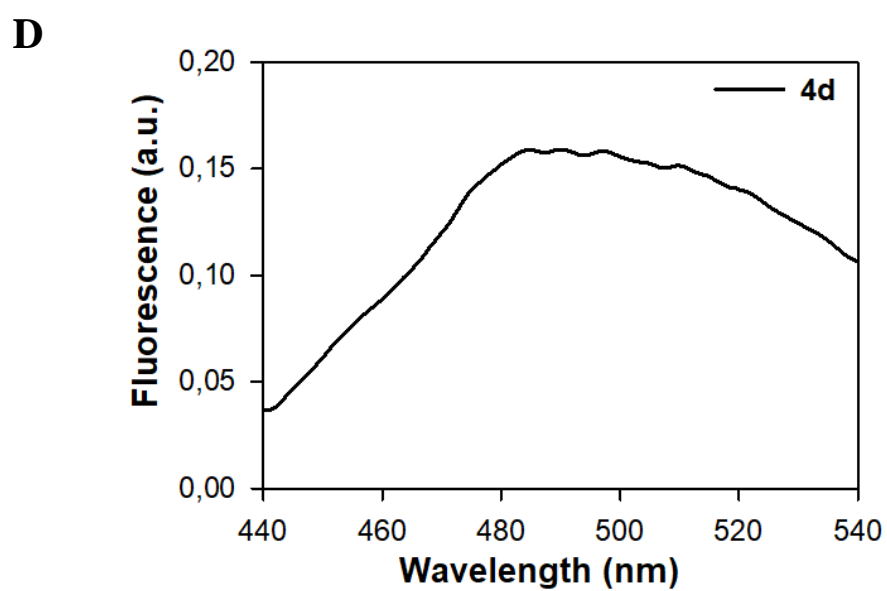
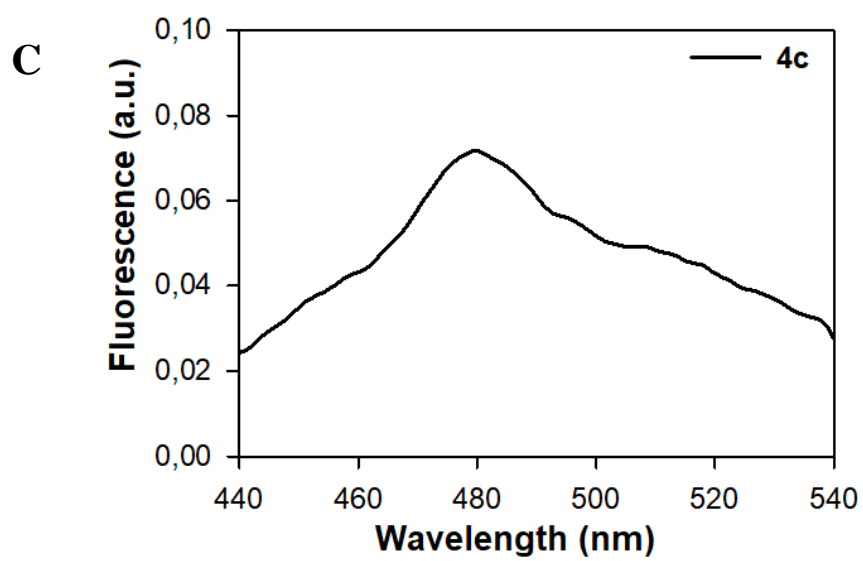
**I****J**

**K****L**

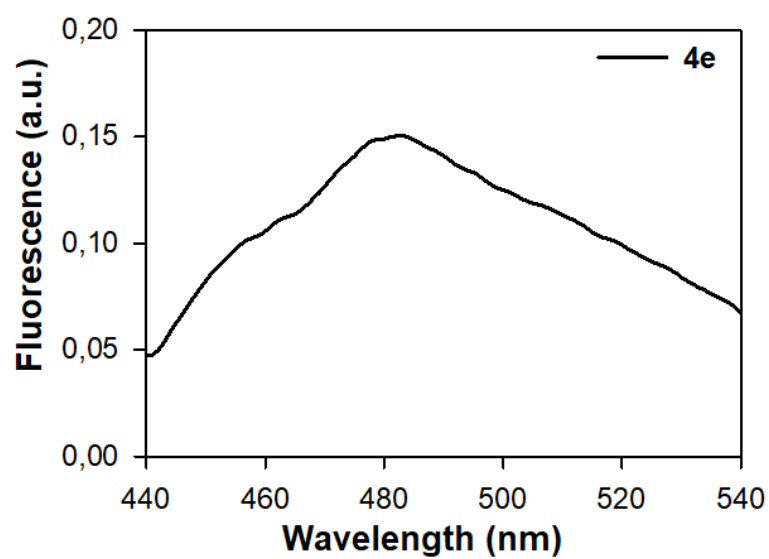
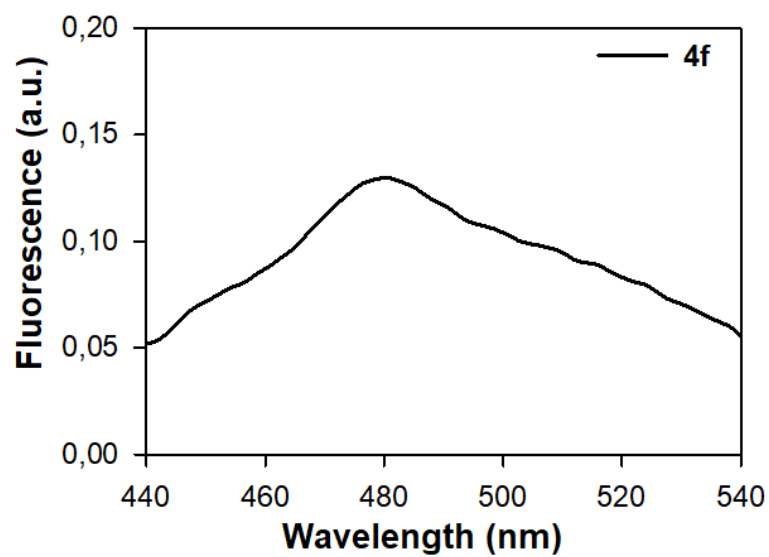
**Figure S1. (A-L).** The absorption spectra of the examined compounds **4a-5f**, recorded in DMSO: ethanol (1:1, v/v) at ambient temperature, in the wavelength range 300-550 nm; spectra normalized to 1 at maximum of the main absorption band.

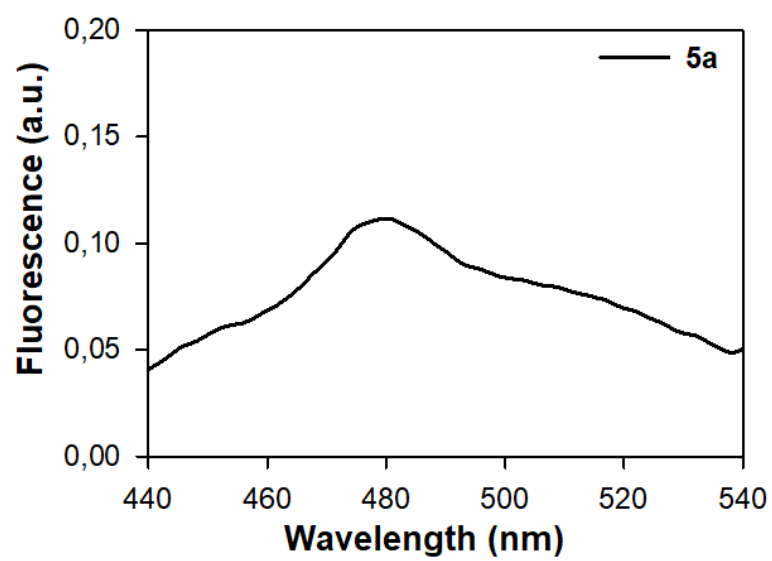
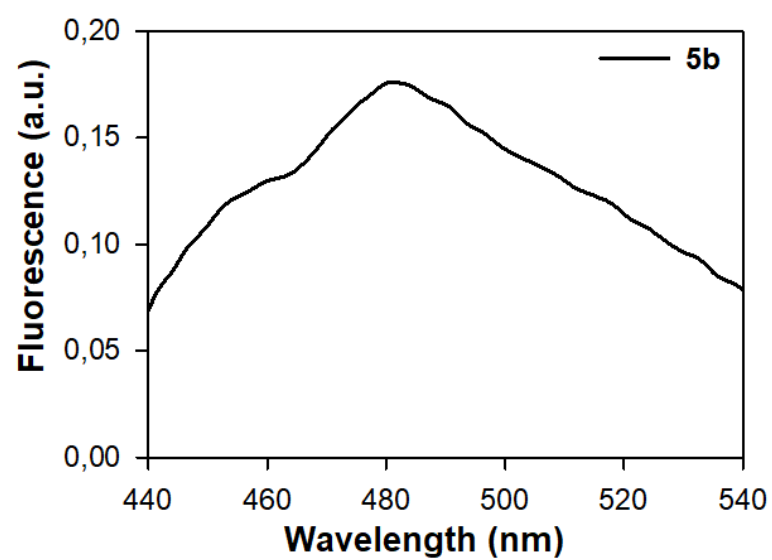
## 2. Emission spectra

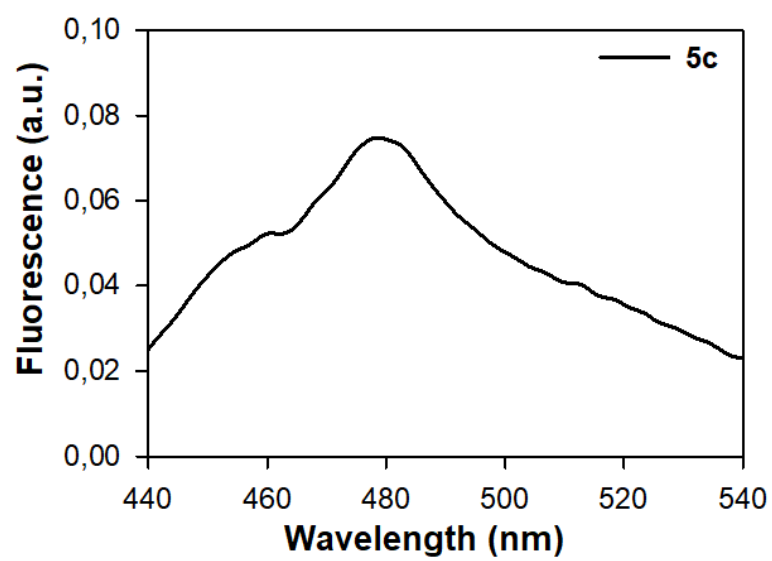
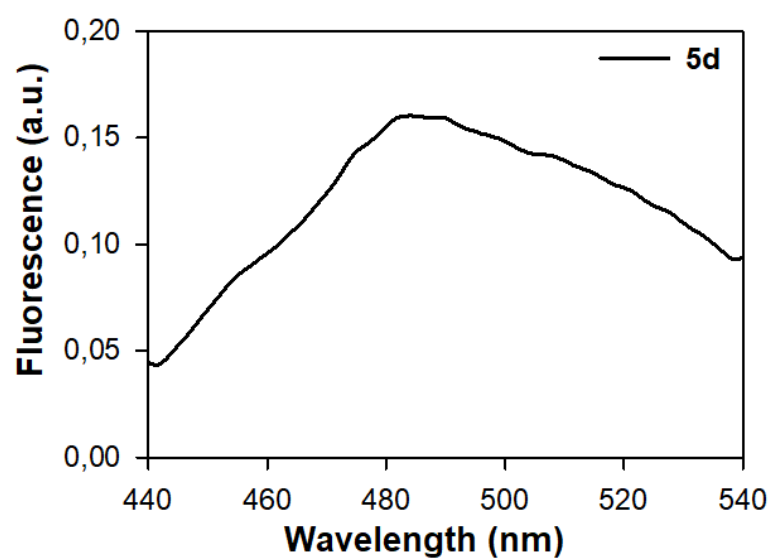


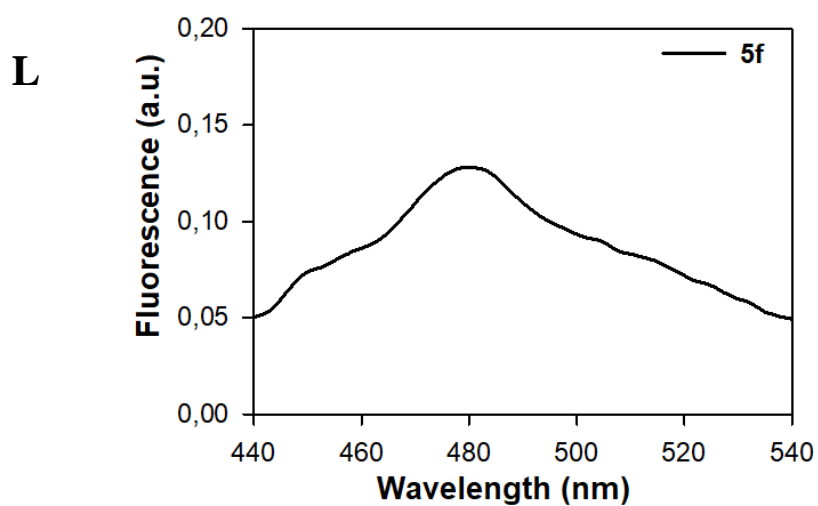
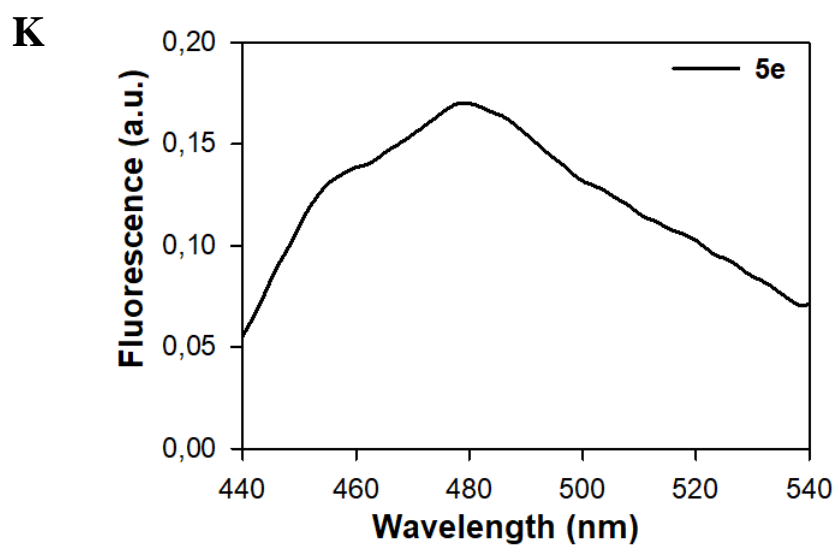




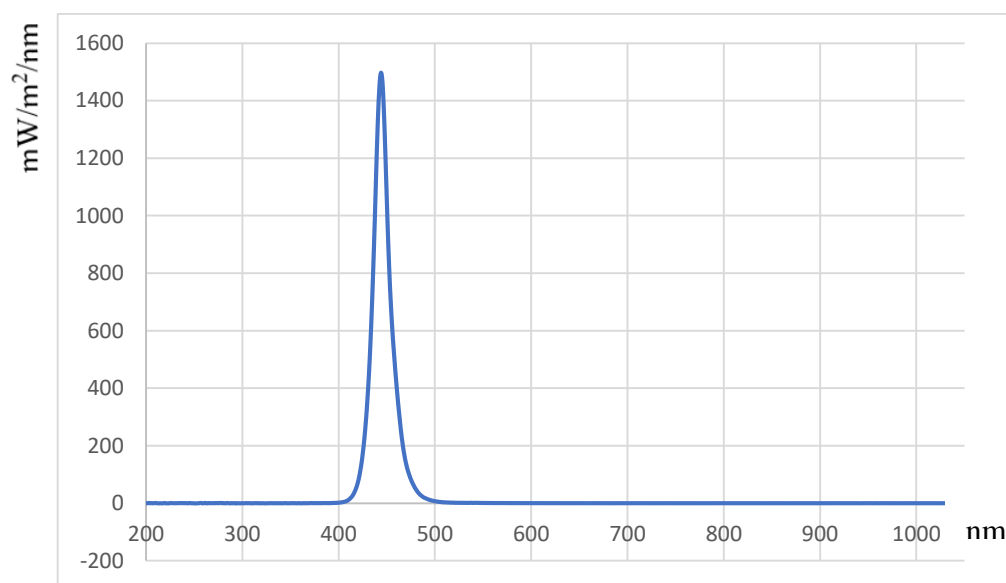
**E****F**

**G****H**

**I****J**



**Figure S2. (A-L).** The emission spectra of the examined compounds **4a-5f**, recorded in DMSO:–ethanol (1:1, v/v) at ambient temperature, in the wavelength range 440–540 nm.  $\lambda_{\text{ex}} = 420$  nm.



**Figure S3.** The blue light region characteristics of the lamp Flood Light LED RGB 50W Premium LUX (Warsaw, Poland), applied in the antimicrobial experiments (see text for details). The characteristics of the lamp was performed using spectroradiometer GL Spectis 5.0 Touch (GL Optic).