Supporting Information

Fluorescent active Ruthenium(II) Complex units containing bpy or phen or dmp ligands anchored on branched poly(ethyleneimine): DNA binding and invitro biological assessment†

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1H-NMR spectra of the RuL-BPEI complexes.

Fig. S1. 1H-NMR spectra of the RuL-BPEI complexes.
Fig. S2. Top: Antimicrobial studies plate images treated by the RuL-BPEI complexes (1, 2 and 3 are represents as RuB-BPEI, RuP-BPEI and RuD-BPEI. Bottom: BPEI as a control in disk diffusion experiments carried out by the x axis 0.5 mg/ml and 1 mg/ml of the BPEI with pathogens and the y axis is zone of inhibition mm units.
Fig. S3. Plot of $[\text{DNA}]$ against $[\text{DNA}]/[\text{DNA}]_{a} - [\text{DNA}]_{f}$ using UV spectroscopy for the binding constant of the RuB-BPEI and RuP-BPEI with CT-DNA.
Fig. S4. The cytotoxicity assay of BPEI on MCF-7 cells at three different time points 24, 48 and 72 h.