Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2017

Supplementary information for Fabrication of Silver Octahedral Nanoparticle-containing Polycaprolactone Nanocomposite for Antibacterial Bone Scaffolds

Yu Gao a,d , Ammar Mansoor Hassanbhai b,d , Jing Lim b,d , Lianhui Wang a* , Chenjie Xu b,c*

- ^a Key Laboratory for Organic Electronics and Information Displays & Institute of Advanced Materials (IAM), Jiangsu National Synergistic Innovation Center for Advanced Materials (SICAM), Nanjing University of Posts & Telecommunications, 9 Wenyuan Road, Nanjing 210023, China
- ^b School of Chemical and Biomedical Engineering, Nanyang Technological University, 70 Nanyang Drive, Singapore 637457
- NTU-Northwestern Institute for Nanomedicine, Nanyang Technological University,
 Nanyang Avenue, Singapore 639798
- ^d These author contributed equally to this work
- *Corresponding to iamlhwang@njupt.edu.cn or cjxu@ntu.edu.sg



Figure S1. Image showing the pure PCL film (left) with white color and Ag-PCL film with even light brown color.

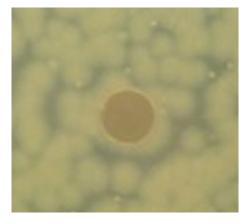


Figure S2. Image showing the antibacterial effect of Ag-PCL film scaffold placed on the surface of the inoculated Mueller-Hinton Agar plate, cultured with *pseudomonas aeruginosa* for 4 hours.

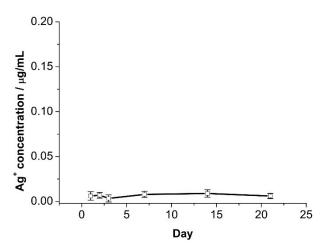


Figure S3. Release profile of silver ions from Ag-PCL composite film in distilled water for 21 days.

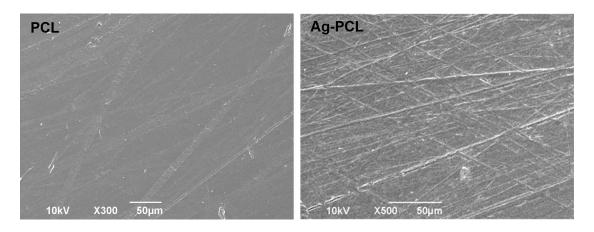


Figure S4. SEM images of plane PCL (left) and Ag-PCL (right) film.

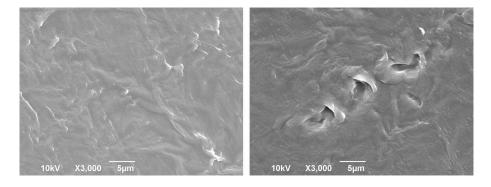


Figure S5. SEM images of PCL film before incubation with medium (left) and after incubation with medium for 7 days (right).