Literature Report

Reporter: Liu Weiwei

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FULL PAPER

ADVANCED FUNCTIONAL MATERIALS
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Bacterium-Templated Polymer for Self-Selective Ablation of Multidrug-Resistant Bacteria

*Guobin Qi, Fang Hu, Kenry, Kok Chan Chong, Min Wu, Yunn Hwen Gan, and Bin Liu**

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刘斌

新加坡国立大学

NUS National University of Singapore | Engineering

About Us Undergraduate Graduate

Department of Chemical and Biomolecular Engineering

Education

- PhD (Chem) National University of Singapore, 2001
- MSc & BSc (Chem) Nanjing University, 1998&1995

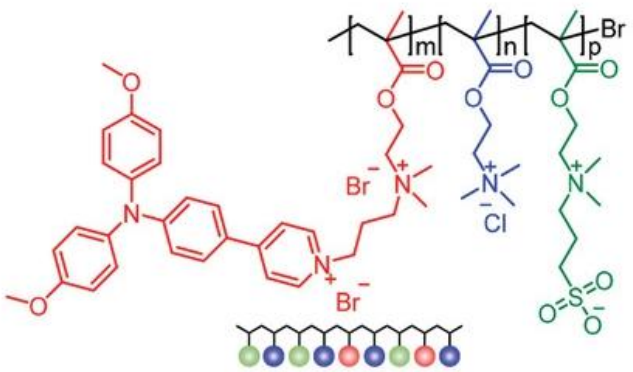
Research Interests

- Luminescent materials (conjugated polymers and oligomers)
- Organic nanomaterials
- Sensing and Imaging
- Solar Cells

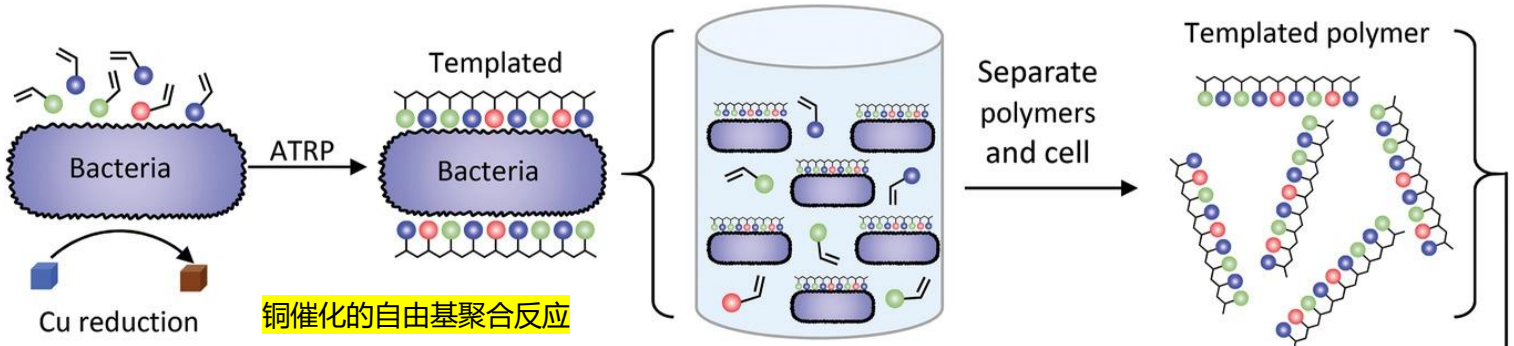
Design

AIE部分
成像和光疗

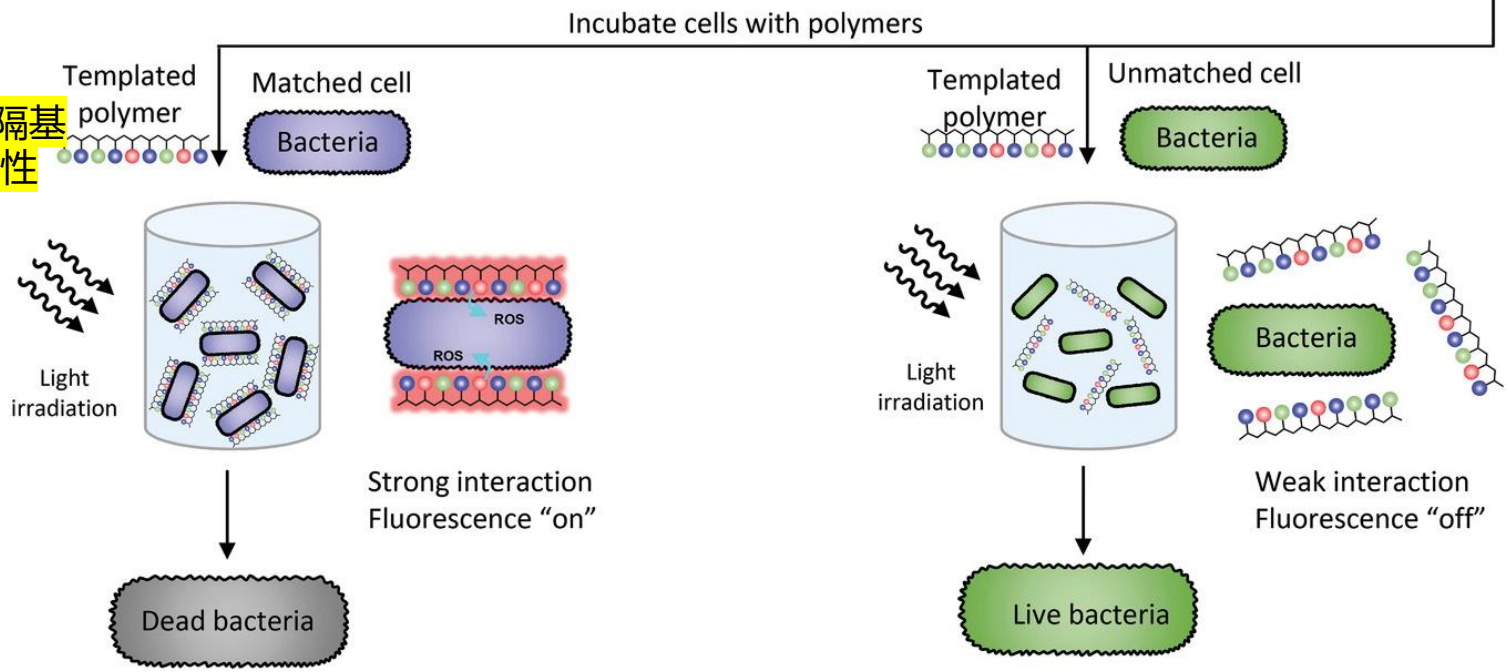
阳离子
识别细菌



阳离子的间隔基
改善水溶性

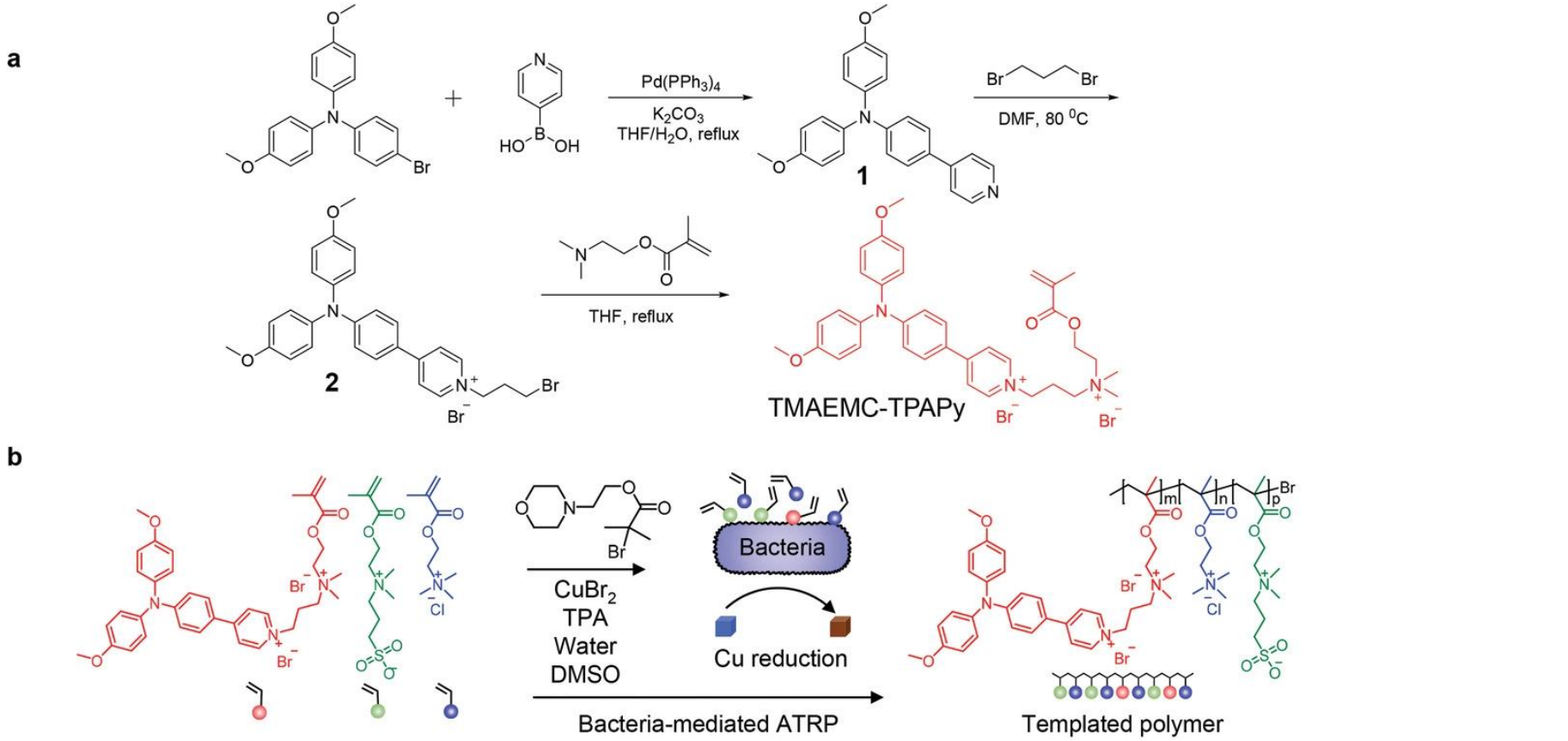


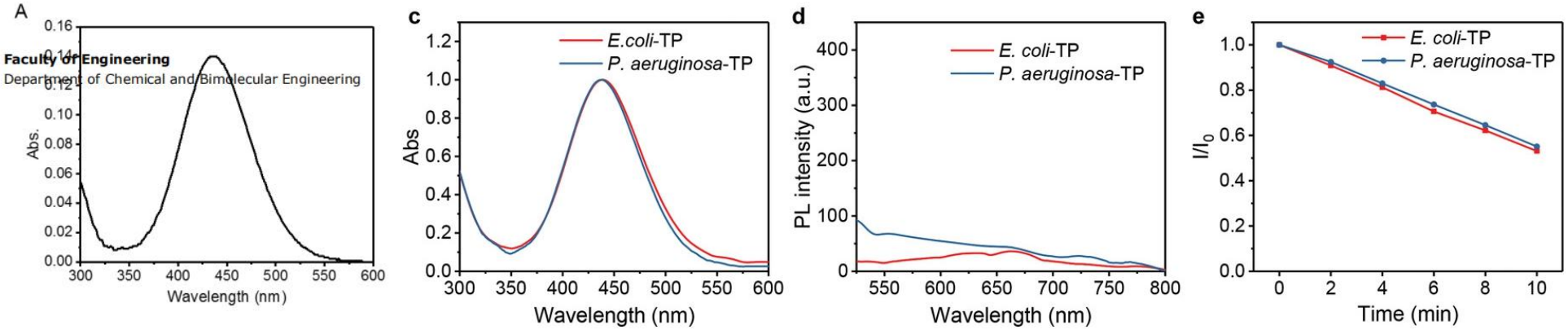
模板化聚合物--细菌指示在单体的悬浮液中聚合以生成的细胞外聚合物



Scheme 1. Bacteria instruct polymerization in monomer-catalyzed suspensions to generate a synthetic extracellular polymeric substance.

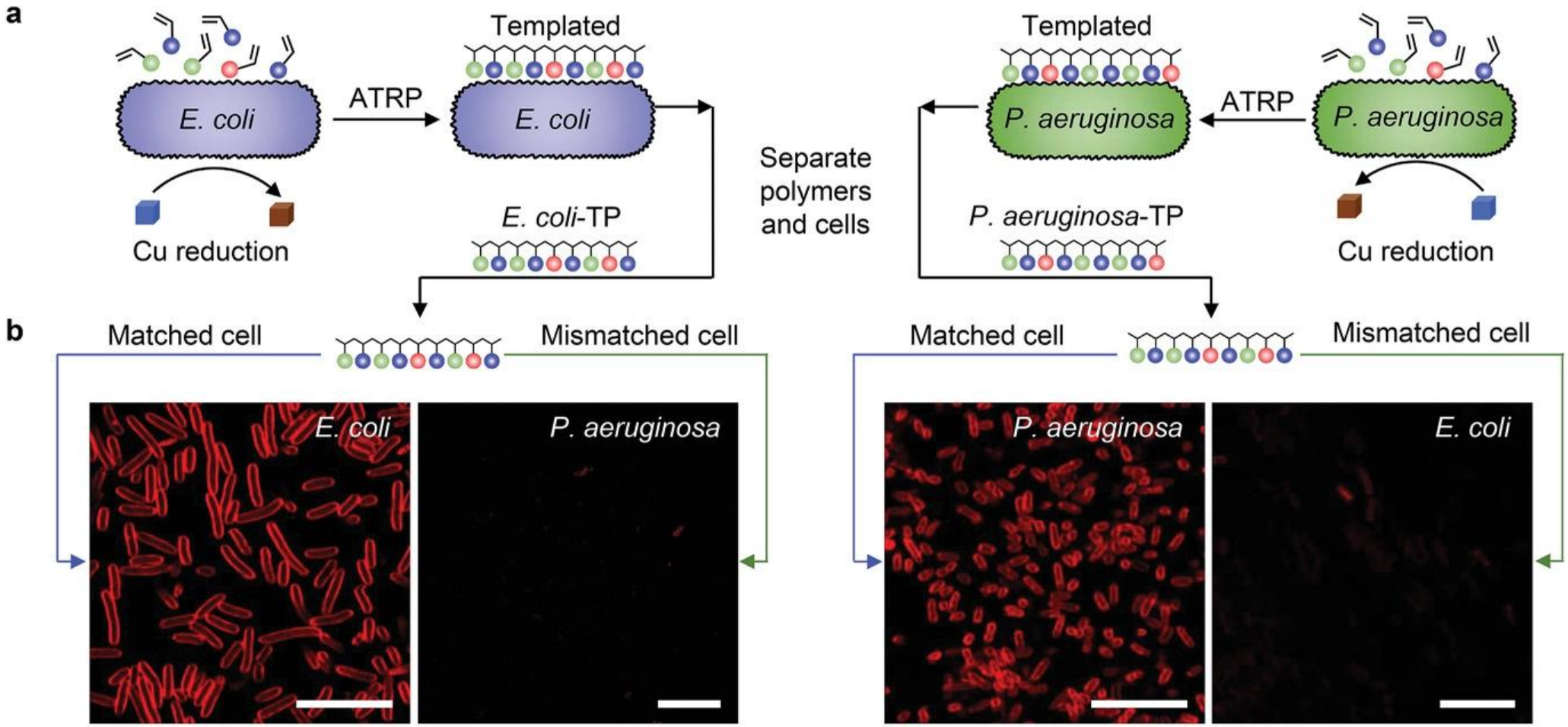
Result and Discussion





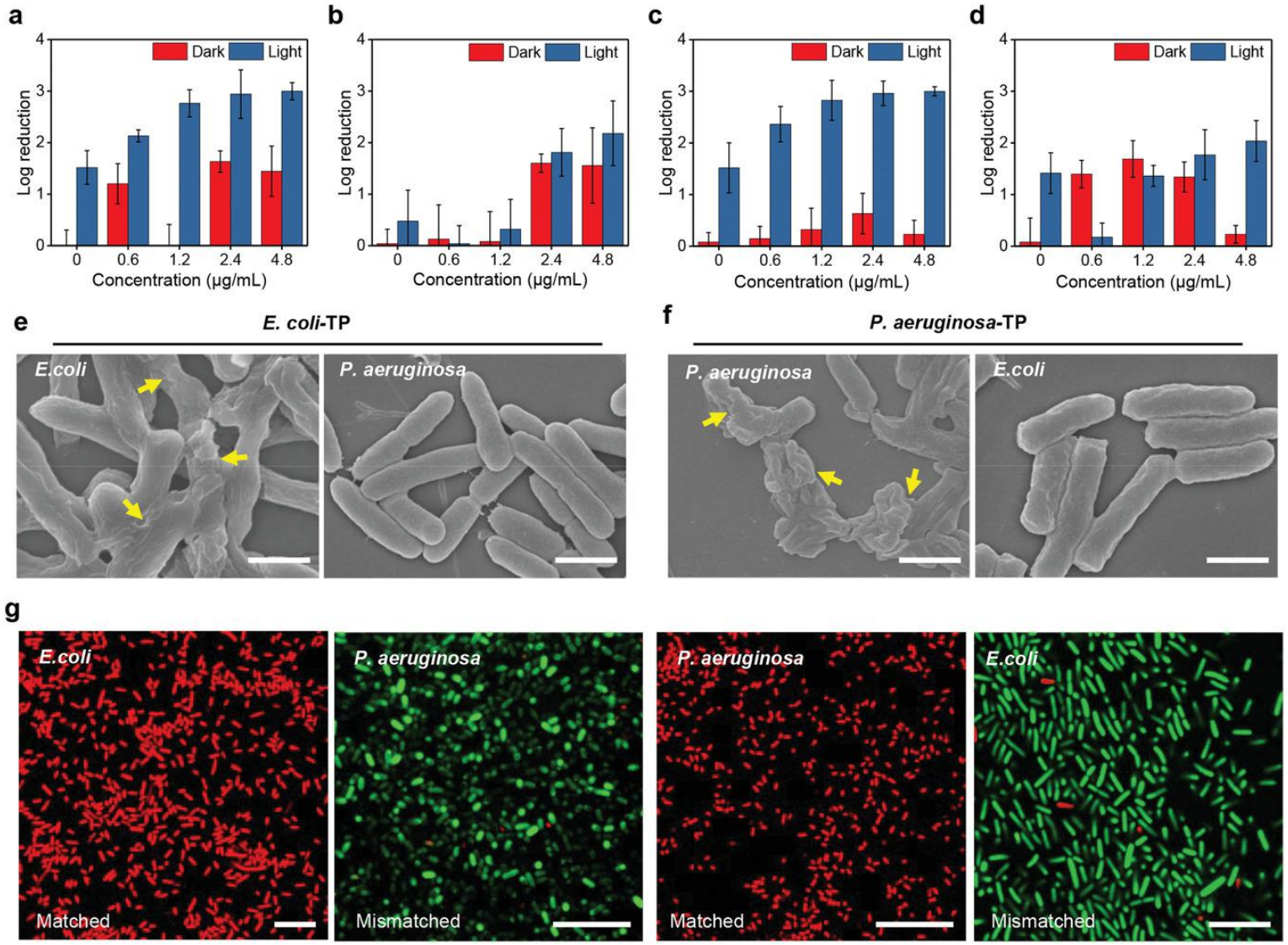
Result and Discussion

模板化聚合物对特定细菌菌株的结合能力评估



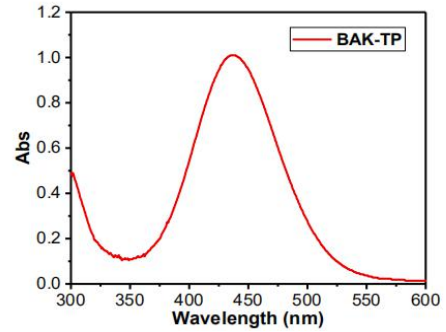
Result and Discussion

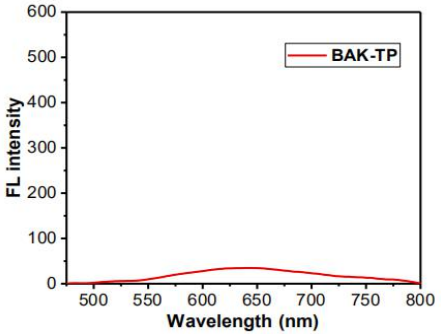
细菌模板聚合物自选光灭活能力评估

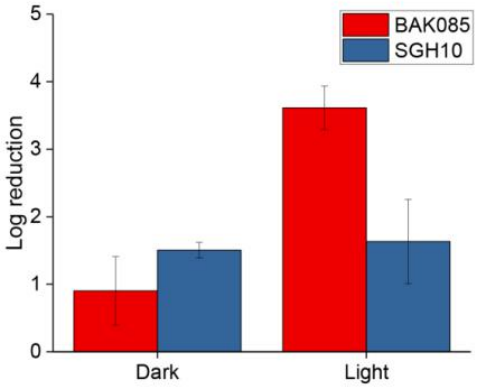


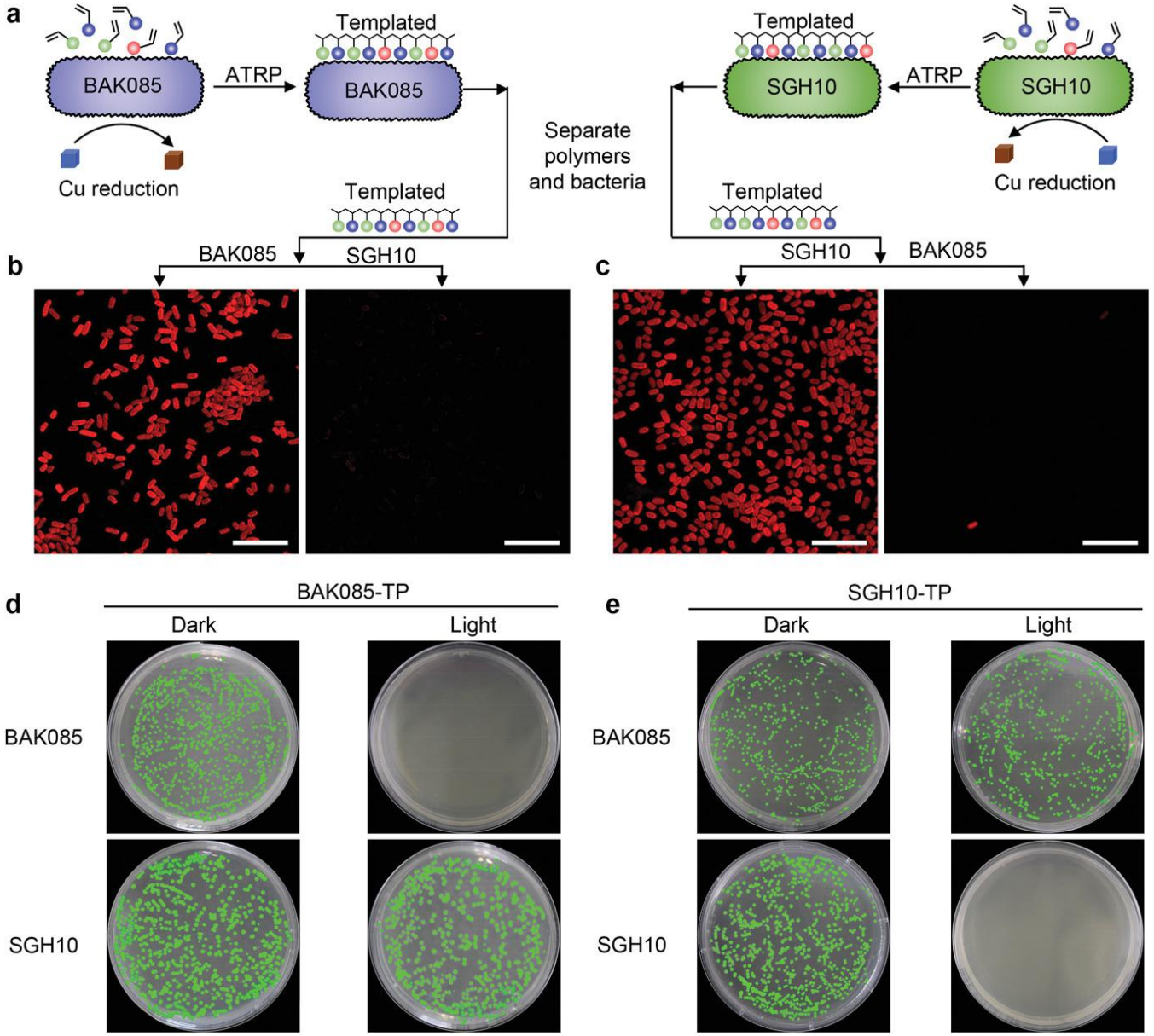
Result and Discussion

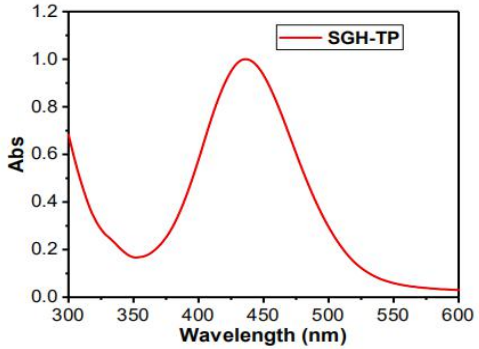
以临床细菌菌株为模板合成模板化聚合物

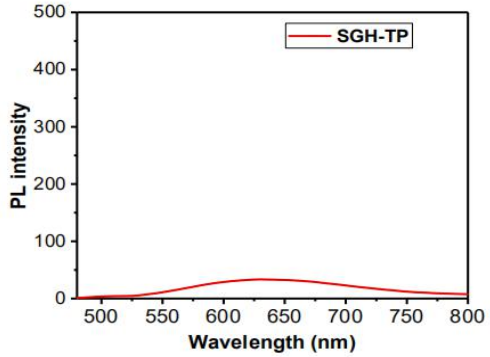


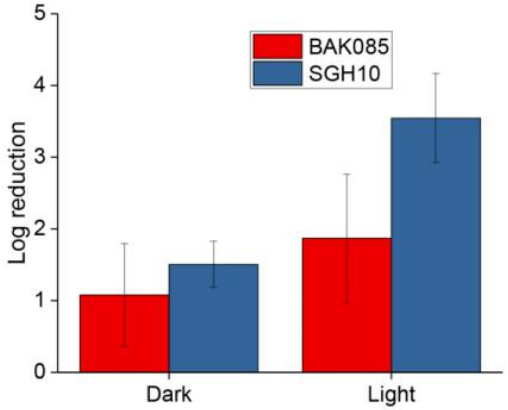






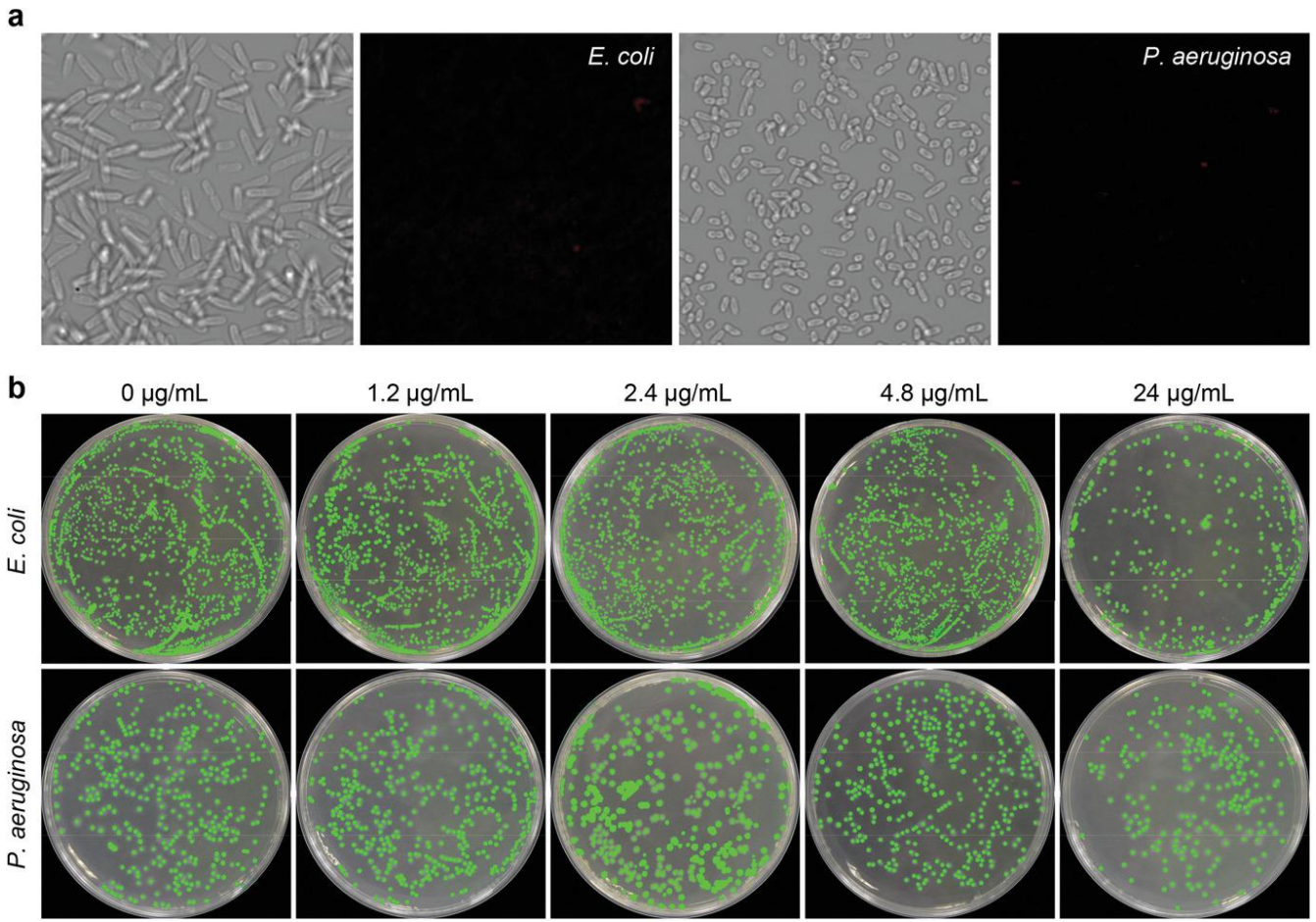






Result and Discussion

耐多药或强毒细菌的模板聚合物对有益细菌菌株的作用



细胞毒性

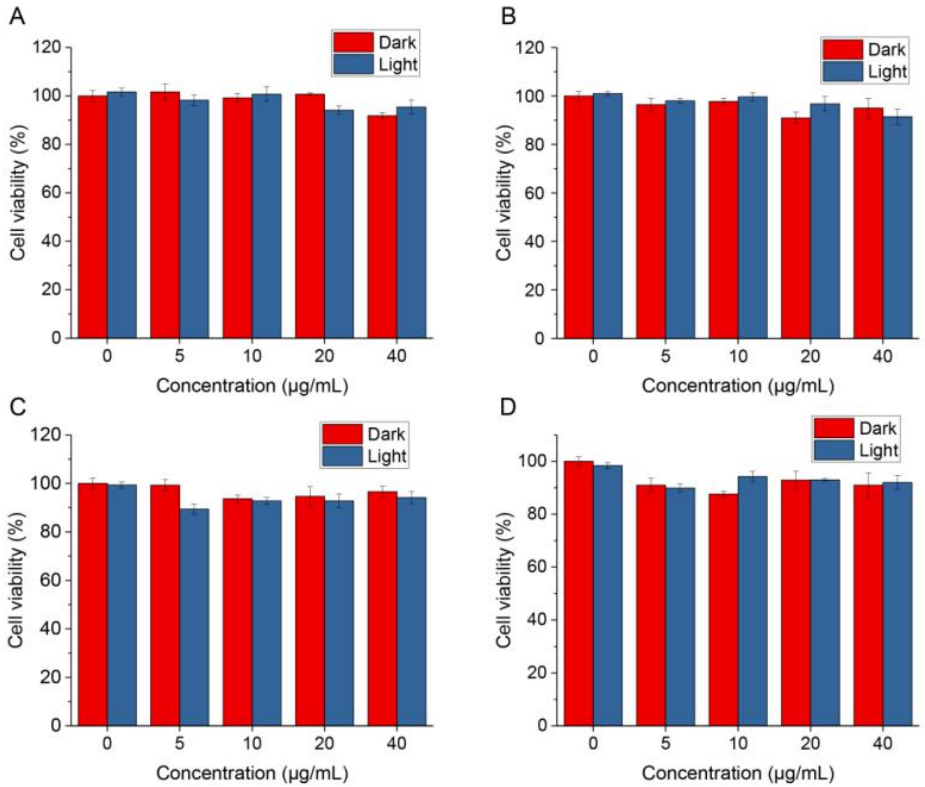


Fig. S19

血液相容性

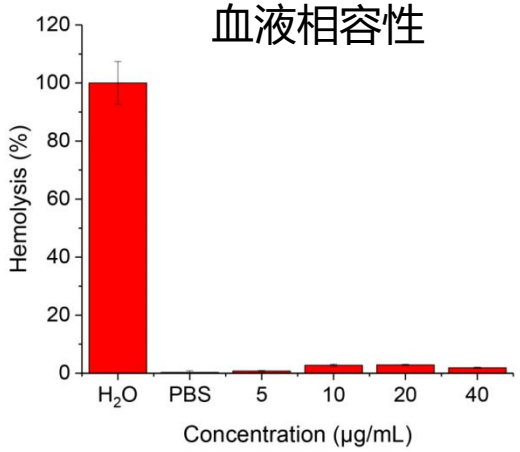


Fig. S20