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Bacterially derived carbon quantum dots for biofilm control

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Propositions

1. Carbon quantum dots can be prepared at low costs.(This thesis)
2. Carbon quantum dots constitute a new class of nano-antimicrobials. (This thesis)
3. Carbon quantum dots enhance antibiotic penetration and killing in a biofilm. (This thesis)
4. The physico-chemistry of carbon quantum dots bears similarity with the physico-chemical properties of their source bacteria. (This thesis)
5. Carbon quantum dots derived from pathogenic bacteria have different properties than carbon quantum dots derived from probiotic bacteria. (This thesis)
6. Carbon quantum dots derived from probiotic bacteria remain to exert synergistic probiotic effects together with antibiotics against an infectious biofilm. (This thesis)
7. Failure is natural; there is no straight line to success.
8. Research is not only about good results.
9. Hard problems create new ideas and opportunities.
10. Trying is only one way of to find out whether an idea is good or bad.