Robert Engel, J Material Sci Eng 2014, 3:3
http://dx.doi.org/10.4172/2169-0022.S1.014

OMICS Group Conferences
Accelerating Scientific Discovery

3rd International Conference and Exhibition on
Materials Science & Engineering
October 06-08, 2014 Hilton San Antonio Airport, USA

Antimicrobial surfaces

Robert Engel
University of New York, USA

Efforts of our laboratory for some time have been directed towards the development of methods to render a variety of surfaces permanently antimicrobial (antibacterial/antifungal) in a passive manner. We summarize here our efforts in accomplishing this goal. Two general approaches have been developed that allow a broad range of surfaces to be modified with excellent results. The application of these approaches towards a range of surfaces is discussed, along with the mode of action for them, and the observation of the results. Finally, a direct commercial application of the procedure that is currently being explored is discussed.

Biography

Robert Engel (PhD, The Pennsylvania State University) is Professor of Chemistry and Biochemistry, and current Dean of Mathematics and the Natural Sciences at Queens College of the City University of New York. The current work is a continuation of efforts of the last 25 years in his laboratories concerning the investigation of a wide range of polycationic organic salts.

Robert.Engel@qc.cuny.edu