Supporting Information

Antibiofilm Activity of tert-BuOH Functionalized Ionic Liquids with Methylsulfonate counteranion

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**Figure 1**

Inhibitory effect [alkyl-im-‘OH][OMs] ILs against four bacteria over 10 h of exposure time. Each data point represents a log of an average of colony forming units (CFU per mL).

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**Fig. 1** Inhibitory effect [alkyl-im-‘OH][OMs] ILs against four bacteria over 10 h of exposure time. Each data point represents a log of an average of colony forming units (CFU per mL).
**Figure 2**

![Optical microscopic images distorted morphology (indicated by red arrows) of *S. epidermidis* biofilm after exposure of 100 µM concentration IL’s for 4 h where, a) Control (without ionic liquids), b) mim-`OH (C<sub>1</sub>), c) ipim-`OH C<sub>3</sub>), d) bim-`OH (C<sub>4</sub>), e) him-`OH (C<sub>6</sub>), f) Oim-`OH (C<sub>8</sub>).](image-url)
1-(2-hydroxy-2-methyl-\textit{n}-propyl)-3-\textit{n}-dodecylimidazolium mesylate, [C_{12}‘\text{OHim}][OMs].
1-(2-hydroxy-2-methyl-n-propyl)-3-n-decylimidazolium mesylate [C_{10}-'OHim][OMs].
1-(2-hydroxy-2-methyl-\(n\)-propyl)-3-\(n\)-octylimadazolium mesylate [C\(_8\)-OHim][OMs].