



## SESSION BIOS 7

<b>TITLE</b>	History and Application of Luminescent Based Reporter Bacteriophage		
<b>CHAIRMANS</b>	1	Bruce Applegate	United States
<b>ABSTRACT</b>	<p>Phage-mediated detection of bacteria provides specificity and speed when compared to alternative methods. With the integration of reporter genes in phages, an additional advantage is realized: presence of the reporter phenotype requires viable cells. By coupling reporter gene(s) such as <i>gfp</i>, <i>luxCDABE</i>, or luciferase with temperate phage, robust pathogen detection systems have been developed. Phage-mediated detection strategies allow for a myriad reporting phenotypes to be used. This session will focus on the historical aspects and current developments in luminescent based reporter phages.</p>		
<b>KEYWORDS</b>	Bacteriophage, detection, luminescence, reporter gene(s), pathogens		