

## **Molecular Biotechnology Programme**

Uppsala University School of Engineering

UPTEC X 0/ 052	Date of issue 2007-10
Author  Karin Larsson	
Title (English)	
Determination of Staphylococcus epidermidis fibrinogen binding protein Fbe adhesion forces using atomic force microscopy	
Title (Swedish)	
Abstract	
The surface morphology and fibrinogen binding capacity of two <i>S. epidermidis</i> strains, a wild type expressing the fibrinogen binding protein (Fbe) and its isogenic mutant, were compared. Adhesion forces between fibrinogen and Fbe were investigated by using atomic force microscopy. The results showed a significant lower number of adhesion events in the Fbe mutant.	
Keywords	
Biofilm, catheter infection, <i>Staphylococcus epidermidis</i> , fibrinogen, atomic force microscopy, force measurements	
Supervisors	
Öjar Melefors and Kristina Jonas Swedish Institute for Infectious Disease Control, Stockholm	
Scientific reviewer	
Margareta Krabbe, Uppsala universitet	
Project name	Sponsors
Language	Security
English	
ISSN 1401-2138	Classification
Supplementary bibliographical information	Pages 21
Biology Education Centre Biomedical Center Husargatan 3 Uppsala	
Box 592 S-75124 Uppsala Tel +46 (0)18 4710000 Fax +46 (0)18 555217	