

Accepted Manuscript

Title: The hidden lipoproteome of *Staphylococcus aureus*

Authors: Anica Graf, Richard J. Lewis, Stephan Fuchs, Martin Pagels, Susanne Engelmann, Katharina Riedel, Jan Pané-Farré

PII: S1438-4221(17)30493-9
DOI: <https://doi.org/10.1016/j.ijmm.2018.01.008>
Reference: IJMM 51207

To appear in:

Received date: 27-9-2017
Revised date: 28-11-2017
Accepted date: 27-1-2018

Please cite this article as: Graf, Anica, Lewis, Richard J., Fuchs, Stephan, Pagels, Martin, Engelmann, Susanne, Riedel, Katharina, Pané-Farré, Jan, The hidden lipoproteome of *Staphylococcus aureus*. *International Journal of Medical Microbiology* <https://doi.org/10.1016/j.ijmm.2018.01.008>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



The hidden lipoproteome of *Staphylococcus aureus*

Anica Graf^a, Richard J. Lewis^b, Stephan Fuchs^c, Martin Pagels^a, Susanne Engelmann^{d,e}, Katharina Riedel^a and Jan Pané-Farré^{a*}

^a Institute of Microbiology, Department of Microbial Physiology and Molecular Biology, University of Greifswald, F.-L.-Jahn-Str. 15, 17489 Greifswald, Germany

^d Institute for Cell and Molecular Biosciences, Faculty of Medical Sciences, University of Newcastle, Newcastle upon Tyne, NE2 4HH, UK.

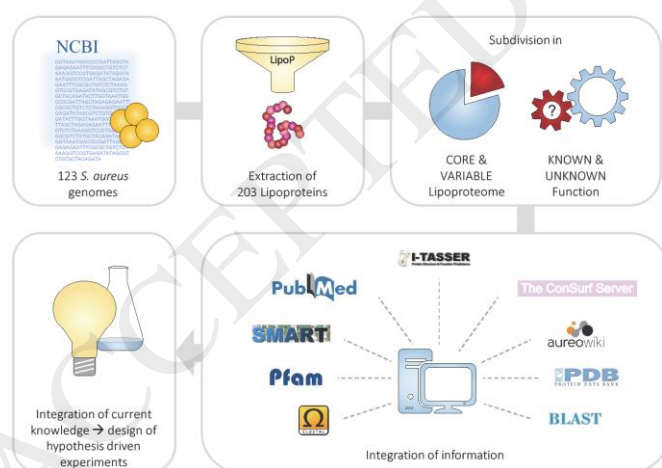
^c FG13 Nosocomial Pathogens and Antibiotic Resistance, Robert Koch Institut (RKI), Burgstr. 37, 38855 Wernigerode, Germany

^d Helmholtz Center for Infection Research GmbH, Microbial Proteomics, Inhoffenstraße 7, 38124 Braunschweig, Germany

^e Institute for Microbiology, Department of Microbial Proteomics, Technical University Braunschweig, Spielmannstraße 7, 38106 Braunschweig, Germany.

* Corresponding author at: University of Greifswald, Institute of Microbiology, F.-L.-Jahn-Str. 15, Greifswald, Germany. Email-address: janpf@uni-greifswald.de

Graphical abstract



Abstract

Lipoproteins are attached to the outer leaflet of the membrane by a di- or tri-acylglyceryl moiety and are thus positioned in the membrane-cell wall interface. Consequently, lipoproteins are involved in many surface associated functions, including cell wall synthesis, electron transport, uptake of

Download English Version:

<https://daneshyari.com/en/article/8384732>

Download Persian Version:

<https://daneshyari.com/article/8384732>

[Daneshyari.com](https://daneshyari.com)