

Accepted Manuscript

Pan-genome multilocus sequence typing and outbreak-specific reference-based SNP analysis to resolve two concurrent *Staphylococcus aureus* outbreaks in neonatal services

S. Roisin, C. Gaudin, R. De Mendonça, J. Bellon, K. Van Vaerenbergh, K. De Bruyne, B. Byl, H. Pouseele, O. Denis, P. Supply

PII: S1198-743X(16)00104-X

DOI: [10.1016/j.cmi.2016.01.024](https://doi.org/10.1016/j.cmi.2016.01.024)

Reference: CMI 518

To appear in: *Clinical Microbiology and Infection*

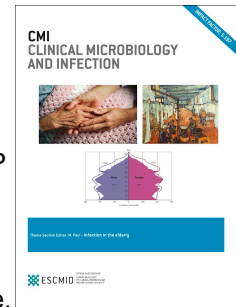
Received Date: 6 October 2015

Revised Date: 15 January 2016

Accepted Date: 29 January 2016

Please cite this article as: Roisin S, Gaudin C, De Mendonça R, Bellon J, Van Vaerenbergh K, De Bruyne K, Byl B, Pouseele H, Denis O, Supply P, Pan-genome multilocus sequence typing and outbreak-specific reference-based SNP analysis to resolve two concurrent *Staphylococcus aureus* outbreaks in neonatal services, *Clinical Microbiology and Infection* (2016), doi: 10.1016/j.cmi.2016.01.024.

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.



1 Pan-genome multilocus sequence typing and outbreak-specific reference-based SNP
2 analysis to resolve two concurrent *Staphylococcus aureus* outbreaks in neonatal services

3

4 Roisin S¹, Gaudin C², De Mendonça R¹, Bellon J³, Van Vaerenbergh K³, De Bruyne K⁴, Byl
5 B^{1,5}, Pouseele H⁴, Denis O^{1,5}, Supply P^{2,6,7,8,9,*}.

6 ¹Erasme Hospital, ULB, Brussels, Belgium

7 ²Genoscreen, 59000 Lille, France

8 ³Onze-Lieve-Vrouw hospital, Aalst, Belgium

9 ⁴Applied Maths, Sint-Martens-Latem, Belgium

10 ⁵Ecole de santé publique, ULB, Brussels, Belgium

11 ⁶INSERM U1019, ⁷CNRS UMR 8204, ⁸Center for Infection and Immunity of Lille, Institut
12 Pasteur de Lille, ⁹Université de Lille, 59019 Lille, France

13

14 Running title: Two *S. aureus* outbreaks resolved by pan-genome MLST

15

16 Keywords: *Staphylococcus aureus*, neonatal, nosocomial outbreaks, whole genome
17 sequencing, pan-genome, multilocus sequence typing, single nucleotide polymorphism,
18 de novo assembly, *spa*-typing

19

20 **Total text length (excluding abstract): 2499 words.**

21

22 *Corresponding author: Philip Supply, philip.supply@ibl.cnrs.fr, Institut Pasteur de Lille,

23 1 Rue du professeur Calmette, 59019 Lille, France, Tel: +33-(0)320871154, Fax: +33-

24 (0)320871158

25

Download English Version:

<https://daneshyari.com/en/article/6128843>

Download Persian Version:

<https://daneshyari.com/article/6128843>

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