ERRATUM

Erratum for Litschko et al., "A New Family of Capsule Polymerases Generates Teichoic Acid-Like Capsule Polymers in Gram-Negative Pathogens"

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Volume 9, no. 3, e00641-18, 2018, https://doi.org/10.1128/mBio.00641-18. In Fig. 1b, the polymer structures of *Actinobacillus pleuropneumoniae* serotypes 3 and 7 were swapped. In Fig. 2c, the linkage between GlcNAc and Gal in the polymer structure shown in the chromatogram was incorrectly written as "β3" and should be "β6." In Fig. 3e, the polymer structure showed a linkage between phosphate and O3 of galactose but should show a linkage between phosphate and O4 of galactose. These changes do not change the conclusions of the paper. The corrected figures appear below. We thank Julia Schulze (Hannover Medical School, Germany) and Olga G. Ovchinnikova and Chris Whitfield (both University of Guelph, Canada) for making us aware of these mistakes.

Citation Litschko C, Oldrini D, Budde I, Berger M, Meens J, Gerardy-Schahn R, Berti F, Schubert M, Fiebig T. 2020. Erratum for Litschko et al., "A new family of capsule polymerases generates teichoic acid-like capsule polymers in Gram-negative pathogens." mBio 11:e02433-20. https://doi.org/10.1128/mBio.02433-20.

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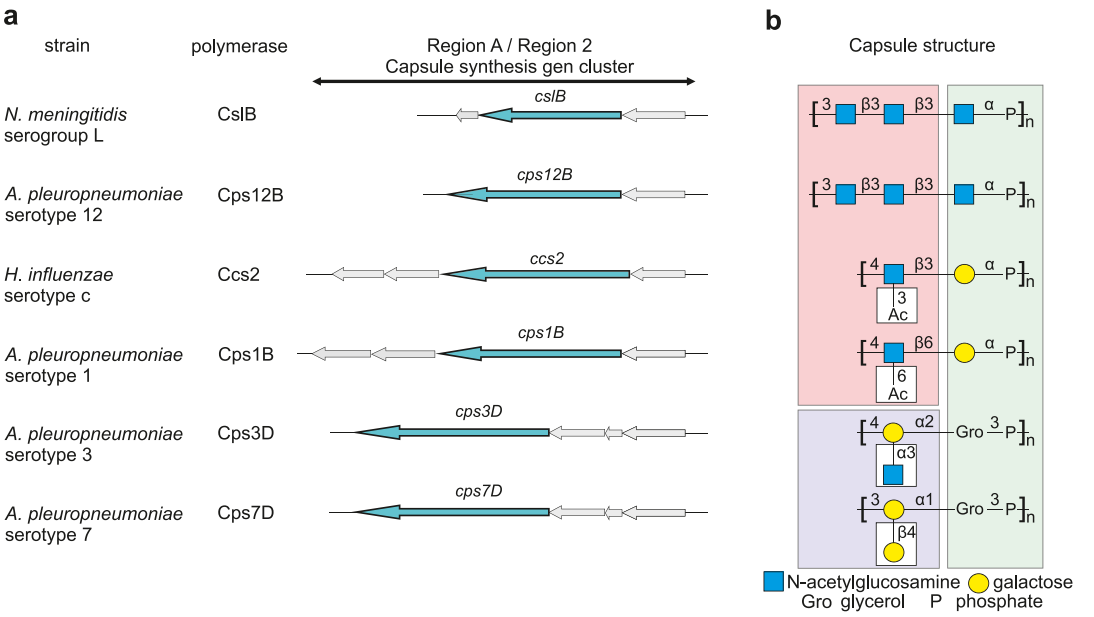
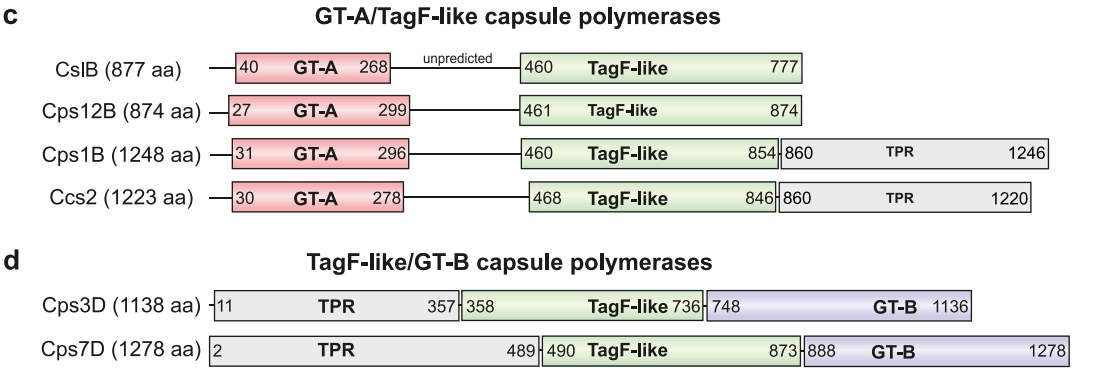

a
strain
polymerase
Region A / Region 2
Capsule synthesis gen cluster
N. meningitidis serogroup L
CslB
cslB
A. pleuropneumoniae serotype 12
Cps12B
cps12B
H. influenzae serotype c
Ccs2
ccs2
A. pleuropneumoniae serotype 1
Cps1B
cps1B
A. pleuropneumoniae serotype 3
Cps3D
cps3D
A. pleuropneumoniae serotype 7
Cps7D
cps7D
b
Capsule structure
N-acetylglucosamine
galactose
Gro glycerol
P phosphate


c
GT-A/TagF-like capsule polymerases
CslB (877 aa)
40 GT-A 268
unpredicted
460 TagF-like 777
Cps12B (874 aa)
27 GT-A 299
461 TagF-like 874
Cps1B (1248 aa)
31 GT-A 296
460 TagF-like 854
860 TPR 1246
Ccs2 (1223 aa)
30 GT-A 278
468 TagF-like 846
860 TPR 1220
d
TagF-like/GT-B capsule polymerases
Cps3D (1138 aa)
11 TPR 357
358 TagF-like 736
748 GT-B 1136
Cps7D (1278 aa)
2 TPR 489
490 TagF-like 873
888 GT-B 1278

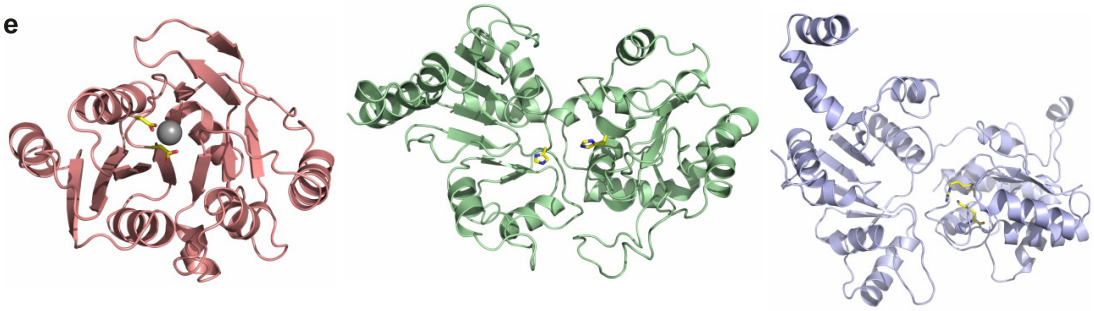

e

FIG 1

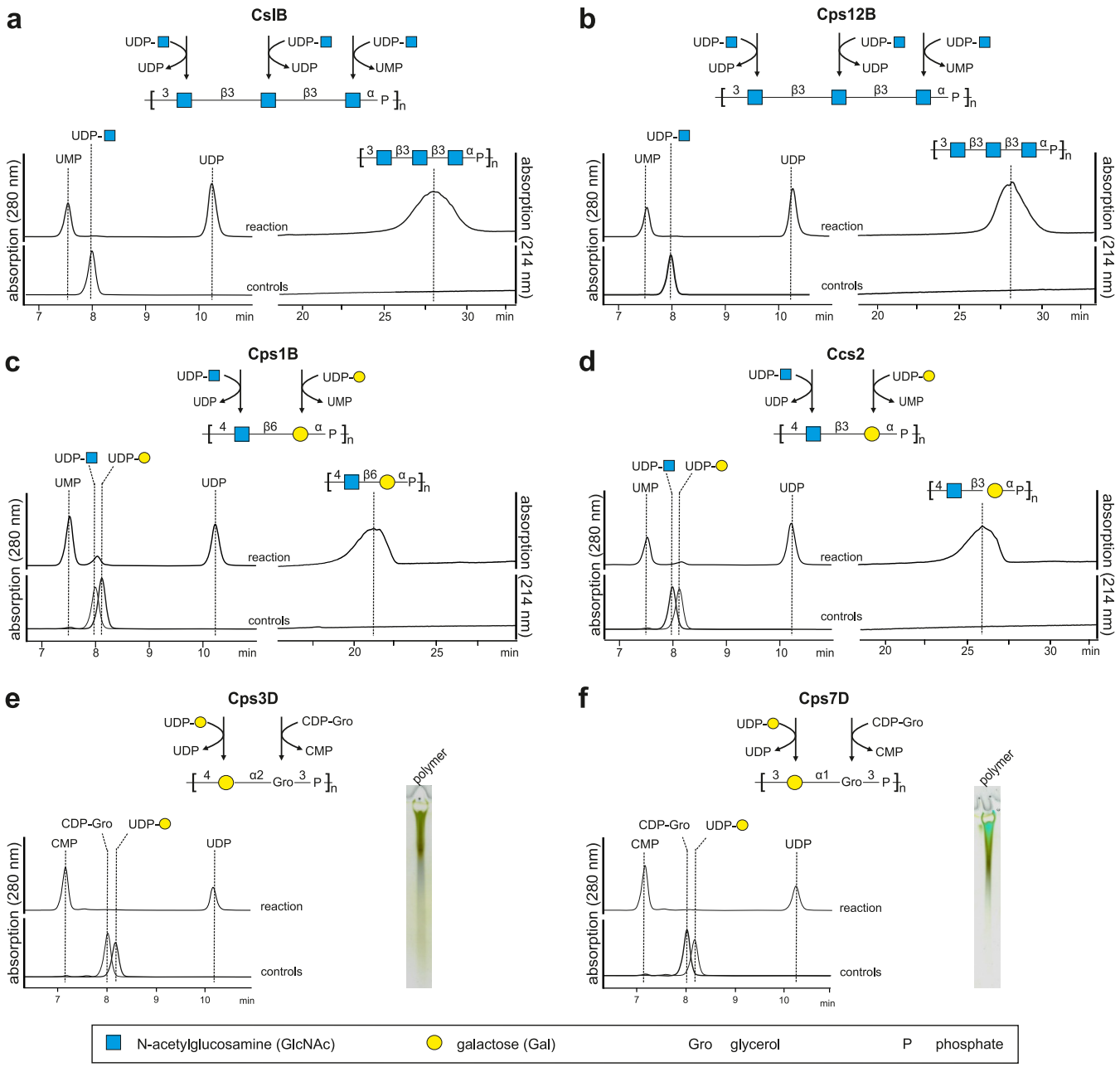

a
CslB
UDP-
UDP
UDP-
UDP
UDP-
UMP
3
β3
β3
α
P
n
UDP-
UMP
UDP
reaction
controls
absorption (280 nm)
absorption (214 nm)
7
8
9
10
min
20
25
30
min
b
Cps12B
c
Cps1B
UDP-
UMP
4
β6
d
Ccs2
e
Cps3D
CDP-Gro
CMP
α2
Gro
polymer
f
Cps7D
α1
N-acetylglucosamine (GlcNAc)
galactose (Gal)
Gro glycerol
P phosphate

FIG 2

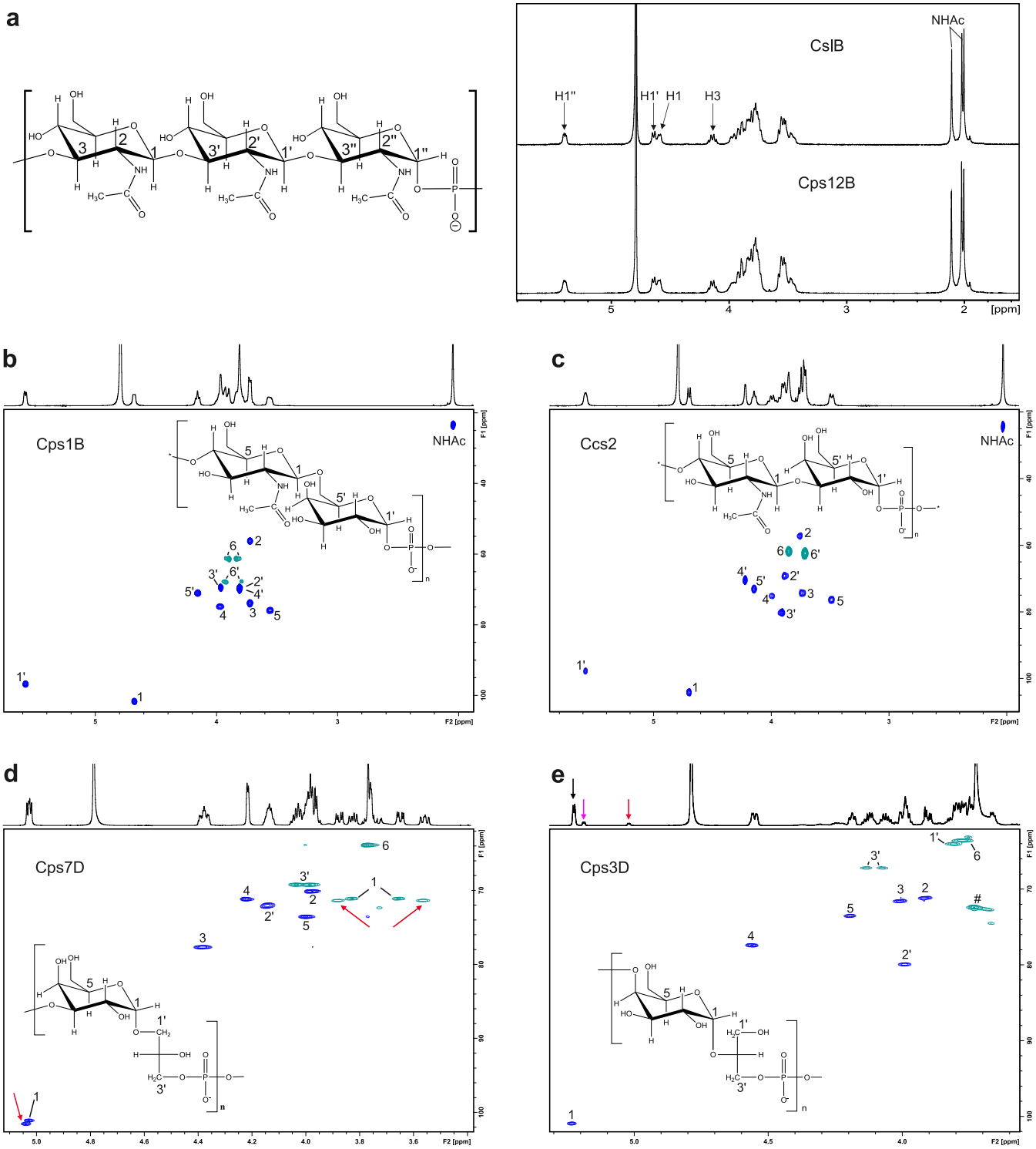

a
CslB
NHAc
H1''
H1'
H1
H3
Cps12B
[ppm]
b
Cps1B
NHAc
c
Ccs2
NHAc
d
Cps7D
e
Cps3D

FIG 3