

Accepted Manuscript

Mycoloyltransferases: A large and major family of enzymes shaping the cell envelope of *Corynebacteriales*

Nathalie Dautin, Célia de Sousa-d'Auria, Florence Constantinesco-Becker, Cécile Labarre, Jacques Oberto, Ines Li de la Sierra-Gallay, Christiane Dietrich, Hanane Issa, Christine Houssin, Nicolas Bayan

PII: S0304-4165(16)30225-2
DOI: doi: [10.1016/j.bbagen.2016.06.020](https://doi.org/10.1016/j.bbagen.2016.06.020)
Reference: BBAGEN 28532

To appear in: *BBA - General Subjects*

Received date: 11 April 2016
Revised date: 15 June 2016
Accepted date: 16 June 2016



Please cite this article as: Nathalie Dautin, Célia de Sousa-d'Auria, Florence Constantinesco-Becker, Cécile Labarre, Jacques Oberto, Ines Li de la Sierra-Gallay, Christiane Dietrich, Hanane Issa, Christine Houssin, Nicolas Bayan, Mycoloyltransferases: A large and major family of enzymes shaping the cell envelope of *Corynebacteriales*, *BBA - General Subjects* (2016), doi: [10.1016/j.bbagen.2016.06.020](https://doi.org/10.1016/j.bbagen.2016.06.020)

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.

**Mycoloyltransferases: a large and major family of enzymes shaping
the cell envelope of *Corynebacteriales***

Nathalie Dautin¹, Célia de Sousa-d'Auria¹, Florence Constantinesco-Becker¹, Cécile Labarre¹, Jacques Oberto², Ines Li de la Sierra-Gallay³, Christiane Dietrich¹, Hanane Issa^{1,4}, Christine Houssin^{*1} and Nicolas Bayan^{1*}

¹Molecular Biology of Corynebacteria and Mycobacteria, ²Cell Biology of Archaea and ³Function and Architecture of Macromolecular Assemblies
Institute for Integrative Biology of the Cell (I2BC), CEA, CNRS, Univ. Paris- Sud, Université Paris- Saclay, 91198, Gif- sur- Yvette cedex, France

⁴ Faculty of Sciences, Department of Life and Earth sciences, Holy Spirit University of Kaslik (USEK), Kaslik, B.P. 446, Jounieh, Lebanon

*Corresponding authors:

Christine Houssin and Nicolas Bayan
Molecular Biology of Corynebacteria and Mycobacteria
Institute for Integrative Biology of the Cell
Campus Université Paris Sud
Bâtiment 409-Allée des Découvertes
91400 Orsay - France

Tel: 33-1 69 15 69 20 or 33- 1 69 15 36 10

Mail: christine.houssin@i2bc.paris-saclay.fr, nicolas.bayan@i2bc.paris-saclay.fr

Abbreviations :

aa, amino acids ; AG, arabinogalactan ; Ag85, Antigen 85 ; DEP, diethyl phosphate ; DTT, dithiothreitol ; ESI-MS, ElectroSpray Ionisation- Mass Spectrometry ; Fbp(s), fibronectin-binding protein(s) ; FITC, fluorescein isothiocyanate ; HTS, high throughput screening ; INH, Isoniazid ; mAGP, mycolic acid-arabinogalactan- peptidoglycan ; Mar, multiple antibiotic resistance ; (c,r)Myt(s), (*Corynebacterium*, *Rhodococcus*) Mycoloyltransferase(s) ; PG, peptidoglycan ; RMSD, rootmean square deviation; RND , resistance-nodulation-division ; TAT, twin argine translocation ; TMM, trehalose monomycolate ; TDM, trehalose dimycolate.

Download English Version:

<https://daneshyari.com/en/article/5508185>

Download Persian Version:

<https://daneshyari.com/article/5508185>

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