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Title: Structure and antibacterial activity relationships of native and amyloid fibril lysozyme loaded on layered double hydroxide

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PII: S0927-7765(17)30308-9  
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfb.2017.05.050>  
Reference: COLSUB 8579

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 9-4-2017  
Revised date: 17-5-2017  
Accepted date: 19-5-2017

Please cite this article as: Z. Bouaziz, L. Soussan, J.-M. Janot, M. Lepoitevin, M. Bechelany, M.A. Djebbi, A.B.H. Amara, S. Balme, Structure and antibacterial activity relationships of native and amyloid fibril lysozyme loaded on layered double hydroxide, *Colloids and Surfaces B: Biointerfaces* (2017), <http://dx.doi.org/10.1016/j.colsurfb.2017.05.050>

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Native and amyloid fibril of lysozyme were loaded onto layered double hydroxide material  
After loading onto material and/or fibrillation process lysozyme keep its antibacterial properties  
Structural modification on active site is characterized by time resolved fluorescence  
A weak modification of protein structure in the loop between the  $\beta$ -sheets and  $\alpha$ -helix is shown.

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