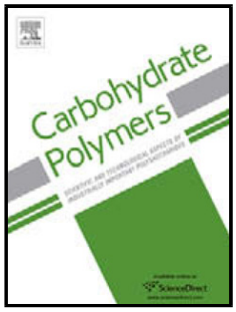

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Authors: Marc Salat, Petya Petkova, Javier Hoyo, Ilana Perelshtein, Aharon Gedanken, Tzanko Tzanov

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Durable antimicrobial cotton textiles coated sonochemically with ZnO nanoparticles embedded in an in-situ enzymatically generated bioadhesive

Marc Salat, [‡a] Petya Petkova, [‡a] Javier Hoyo,[a] Ilana Perelshtein,[b] Aharon Gedanken,[b] Tzanko Tzanov,*

a) Grup de Biotecnologia Molecular i Industrial, Department of Chemical Engineering, Universitat Politècnica de Catalunya, Rambla Sant Nebridi 22, 08222, Terrasa, Spain

b) Department of Chemistry, Kanbar Laboratory, Institute of Nanotechnology and Advanced Materials, Bar-Ilan University, Ramat-Gan 52900, Israel

‡These authors contributed equally to the work

*Corresponding author: Dr. Tzanko Tzanov, tel.: +34 93 739 85 70, fax: +34 93 739 82 25, e-mail: tzanko.tzanov@upc.edu

Highlights

- Nanoparticle coated antibacterial cotton textiles to prevent nosocomial infections
- A novel single step sono-enzymatic process for nanoparticle coating of textiles
- Gallic acid as an antibacterial agent, bioadhesive and biocompatibility enhancer
- The antibacterial efficacy is maintained even after 60 washing cycles at 75 ºC