

## Accepted Manuscript

Title: *In situ* synthesis of bacterial cellulose/polycaprolactone blends for hot pressing nanocomposite films production

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PII: S0144-8617(15)00488-9  
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2015.06.001>  
Reference: CARP 9979

To appear in:

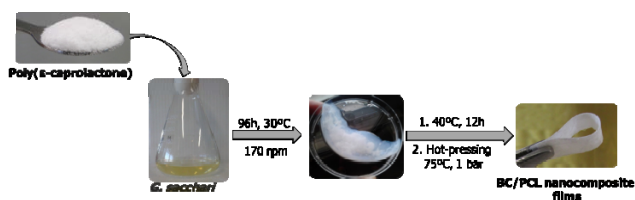
Received date: 10-4-2015  
Revised date: 28-5-2015  
Accepted date: 1-6-2015

Please cite this article as: Figueiredo, A. R. P., Silvestre, A. J. D., Neto, C. P., and Freire, C. S. R., *In situ* synthesis of bacterial cellulose/polycaprolactone blends for hot pressing nanocomposite films production, *Carbohydrate Polymers* (2015), <http://dx.doi.org/10.1016/j.carbpol.2015.06.001>

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1. BC-based nanocomposites may be simultaneously produced with BC biosynthesis
2. PCL powder was incorporated into BC network
3. BC morphology was not significantly changed by PCL presence
4. The materials have similar thermal stabilities but distinct mechanical properties.

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6 **Graphical abstract**

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