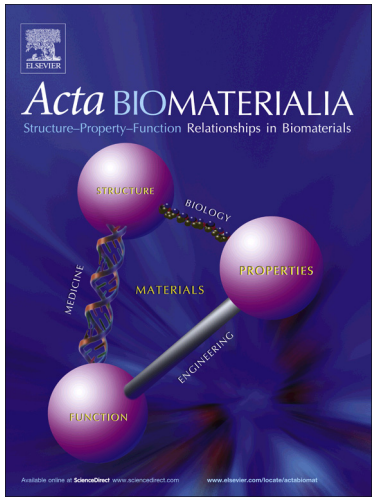

Full length article

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PII: S1742-7061(17)30690-6
DOI: https://doi.org/10.1016/j.actbio.2017.11.013
Reference: ACTBIO 5166

To appear in: *Acta Biomaterialia*

Received Date: 1 August 2017
Revised Date: 7 October 2017
Accepted Date: 6 November 2017

Please cite this article as: Gossart, A., Battiston, K.G., Gand, A., Pauthe, E., Paul Santerre, J., Mono vs multilayer Fibronectin coatings on polar/hydrophobic/ionic polyurethanes: Altering surface interactions with human monocytes, *Acta Biomaterialia* (2017), doi: https://doi.org/10.1016/j.actbio.2017.11.013

Mono vs multilayer Fibronectin coatings on polar/hydrophobic/ionic polyurethanes : Altering surface interactions with human monocytes

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Abstract (200-250 words)

Monocyte interactions with materials that are biofunctionalized with fibronectin (Fn) are of interest because of the documented literature which associates this protein with white blood cell function at implant sites. A degradable-polar hydrophobic ionic polyurethane (D-PHI), has been reported to promote an anti-inflammatory response from human monocytes. The aim of the current work was to study the influence of intrinsic D-PHI material chemistry on Fn adsorption (mono and multi-layer structures), and to investigate the influence of such chemistry on the structural state of the Fn, as well as the latter's influence on the activity of