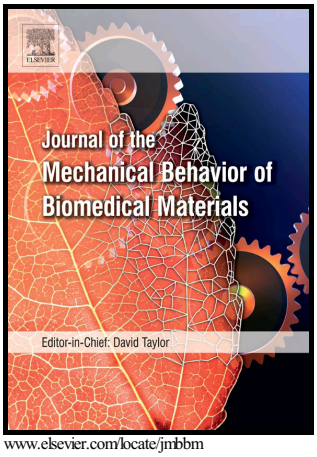
Evaluation of multi-scale mineralized collagen-polycaprolactone composites for bone tissue engineering

D.W. Weisgerber, K. Erning, C.L. Flanagan, S.J. Hollister, B.A.C. Harley



www.elsevier.com/locate/jmbbm

PII: S1751-6161(16)30052-2
DOI: http://dx.doi.org/10.1016/j.jmbbm.2016.03.032
Reference: JMBBM1865

To appear in: *Journal of the Mechanical Behavior of Biomedical Materials*

Received date: 10 January 2016
Revised date: 28 March 2016
Accepted date: 29 March 2016

Cite this article as: D.W. Weisgerber, K. Erning, C.L. Flanagan, S.J. Hollister and B.A.C. Harley, Evaluation of multi-scale mineralized collagen polycaprolactone composites for bone tissue engineering, *Journal of the Mechanical Behavior of Biomedical Materials* http://dx.doi.org/10.1016/j.jmbbm.2016.03.032

Evaluation of multi-scale mineralized collagen-polycaprolactone composites for bone tissue engineering

D.W. Weisgerber[1], K. Erning[2], C.L. Flanagan[3], S.J. Hollister[3,4], B.A.C. Harley[2,5]

[1] Dept. of Material Science and Engineering
[2] Dept. of Chemical and Biomolecular Engineering
[5] Carl R. Woese Institute for Genomic Biology
University of Illinois at Urbana-Champaign
Urbana, IL 61801

[3] Dept. of Biomedical Engineering
[4] Dept. of Mechanical Engineering
University of Michigan
Ann Arbor, MI 48109

Corresponding Author:
B.A.C. Harley
Dept. of Chemical and Biomolecular Engineering
Carl R. Woese Institute for Genomic Biology
University of Illinois at Urbana-Champaign
110 Roger Adams Laboratory
600 S. Mathews Ave.
Urbana, IL 61801
Phone: (217) 244-7112
Fax: (217) 333-5052
e-mail: bharley@illinois.edu

Keywords: collagen; polycaprolactone; biomaterial; multi-scale; craniofacial; bone