



US007897727B2

(12) **United States Patent**  
**Farach-Carson et al.**

(10) **Patent No.:** **US 7,897,727 B2**  
(45) **Date of Patent:** **Mar. 1, 2011**

(54) **BIOACTIVE PEPTIDE FOR CELL ADHESION**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **12/398,534**

(22) Filed: **Mar. 5, 2009**

(65) **Prior Publication Data**  
US 2009/0239304 A1 Sep. 24, 2009

**Related U.S. Application Data**  
(62) Division of application No. 10/363,376, filed as application No. PCT/US01/26640 on Aug. 27, 2001.  
(60) Provisional application No. 60/229,222, filed on Aug. 31, 2000, provisional application No. 60/309,209, filed on Aug. 1, 2001.

(51) **Int. Cl.**  
**C07K 14/00** (2006.01)  
(52) **U.S. Cl.** ..... **530/350; 530/300; 435/7.1**  
(58) **Field of Classification Search** ..... None  
See application file for complete search history.

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(57) **ABSTRACT**  
Implantable devices for adhering eukaryotic cells and devices providing a substrate for eukaryotic cell growth and/or differentiation in vitro are described. Each device comprises a scaffold that is coated with a protein comprising an adhesive polypeptide that has at least 90% sequence identity to a specific peptide sequence within domain IV of perlecan. The devices adhere epithelial cells, epithelial stem cells, mesenchymal stem cells, and osteoblasts.

**15 Claims, 13 Drawing Sheets**  
**(9 of 13 Drawing Sheet(s) Filed in Color)**