BIOE 476: Tissue Engineering, Fall 2016

Quiz #7

1. **(1 point)** You are tasked with evaluating the degree to which a pre-vascularized tissue scaffold has integrated with the host circulation of a mouse. What 2 techniques, listed below, are suitable for evaluating this? (Circle ONE best answer)

   A. Cell proliferation analysis, fluorescent lectin imaging
   B. Cell proliferation analysis, luciferase imaging
   C. Luciferase imaging, scaffold degradation analysis
   D. Scaffold degradation analysis, cell proliferation analysis
   E. Luciferase imaging, fluorescent lectin imaging
   F. Scaffold degradation analysis, fluorescent lectin imaging

   **Answer: E**

2. **(1 point)** Chemokinesis is a term used to describe the DIRECTIONAL migration of cells towards an increasing concentration of a soluble factor (TRUE or FALSE).

   A. True
   B. False

   **Answer: B (False)**

3. **(1 point)** Micropatterning studies (discussed in class) demonstrated that cell shape was MORE IMPORTANT than the amount of matrix adhesion in determining cell migration DIRECTION (TRUE or FALSE).

   A. True
   B. False

   **Answer: A (True)**