

JOB OPENINGS

RESEARCH ASSOCIATE – two positions available

The University of Cincinnati, Department of Surgery, Division of Research at Shriners Burns Hospital has two openings for energetic and talented Research Associates for performance of preclinical studies with engineered human skin for wound treatment.

1. Two aims are funded to develop skin pigmentation from melanocytes, and a vascular network from microvascular endothelial cells in an engineered skin substitute for burns. Melanocytes and endothelial cells will be selected for expression of integrins and extracellular matrix to promote survival and organization into functional components of skin tissue. Comprehensive laboratories are available which provide facilities for cell culture, biopolymer fabrication, protein and nucleic acid chemistry, light and fluorescence microscopy, flow cytometry, media formulation, and support staff. Position number 29UC4832.
2. Mesenchymal Stem Cells (MSCs) will be used to promote a vascular network in engineered human skin. MSCs will be combined with human dermal microvascular endothelial cells, fibroblasts and a biopolymer sponge to stimulate vasculogenesis, and earlier perfusion of engineered skin. Stem cell properties will be identified by cell surface markers (e.g., CD10, CD13, CD73, CD105, CD 271) before and after grafting to experimental skin wounds. Comprehensive laboratories are available which provide facilities for cell culture, biopolymer fabrication, protein and nucleic acid chemistry, light and fluorescence microscopy, flow cytometry, media formulation, and support staff. Position number 29UC4833.

Ph.D. in cellular, molecular or developmental biology, biomedical engineering, or closely related field and previous experience with tissue engineering, and cell transplantation preferred. Technical skills needed include: cell culture, protein and nucleic acid analyses (northern, western, & southern blots), transplantation and evaluation in vivo of engineered skin, MS Windows computer programs and presentations. Apply online at <https://www.jobsatuc.com>. Search postings for position number listed above.

More information about this project, the PI, Steven Boyce PhD, and the work environment is available at:

<http://surgery.uc.edu/>

<http://surgery.uc.edu/content/Research/R%20Faculty.html?userid=1355>

<http://surgery.uc.edu/content/Research/Univ%20of%20Cincinnati%202008-2009%20-%20Translational%20Research.pdf>