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**Jean E. Schwarzbauer,**  
PhD,  
Princeton University,  
Department of Molecular Biology

### ***The ECM - Bioactive or Biopassive?***

Jean Schwarzbauer will present: ***The ECM - Bioactive or Biopassive?*** in the *Fundamental Science of Bioactive Materials* session at the ***NJ Symposium on Biomaterials Science*** on **November 9, 2015**. In the 3D-environment of tissues, cells are affected by neighboring cells and the surrounding extracellular matrix (ECM). Cell adhesive ECM proteins, like fibronectin, act as conduits between structural ECM components and cell surface receptors. In addition to the stabilizing, organizational, and shape-forming roles of the ECM, these proteins are major factors in tissue development and regeneration.

Dr. Schwarzbauer is Professor and Associate Chair of Molecular Biology at Princeton University where she teaches cell biology and conducts NIH-funded research in tissue repair and regeneration, cancer, and stem cell biology. She is also a member of the

New Jersey Center for Biomaterials as a core faculty member of the center's NIH-funded Postdoctoral training and Biomedical Technology Resource Programs, and an Associate Member of the Rutgers Cancer Institute of New Jersey.

Dr. Schwarzbauer received her PhD in Molecular Biology from the University of Wisconsin where she studied protein-DNA interactions in the bacterial ribosome. After that, she became a post-doctoral fellow at Massachusetts Institute of Technology studying fibronectin. She continued her work with the extracellular matrix (ECM) protein at Princeton where her primary research focus is on extracellular matrix regulation of cell function.

Schwarzbauer has a distinguished record of service. She has served as President of the American Society for Matrix Biology, Secretary of the American Society for Cell Biology, and editor of many major cell biology journals. She is also a member of many advisory boards and grant review panels and has organized numerous conferences in cell and matrix biology and bioengineering.

Dr. Schwarzbauer is a leading researcher, who will be joined by other prominent scientists, all of them working at the forefront of bioactive materials development. By attending the ***NJ Symposium on Biomaterials Science***, you will hear directly from them as they share their innovative approaches to shaping the future of biotechnology.

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