

Prevention of Postoperative Abdominal Adhesions

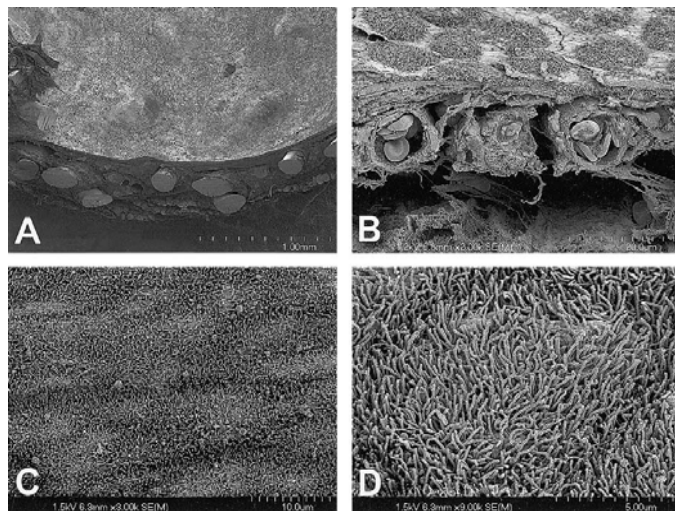
David A. Rothenberger, MD (PI); John P. Delaney, MD, PhD;

Wolfgang. B. Gaertner, MD; Margaret E. Bonsack, MS.

Department of Surgery, University of Minnesota

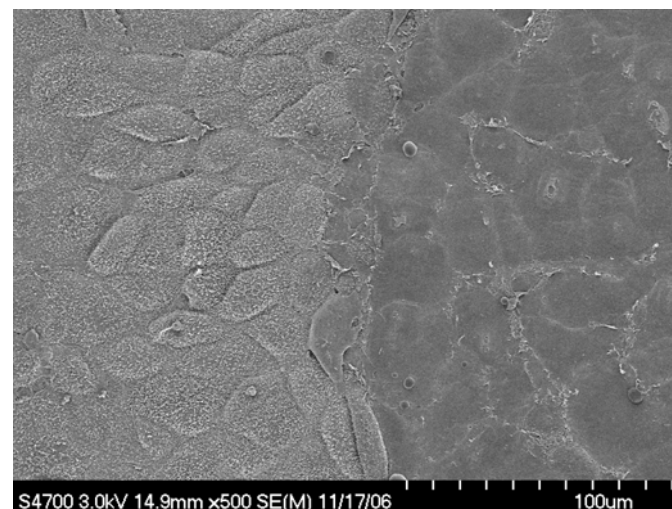
● Purposes

- ◆ To evaluate adhesion formation and the metabolic and cellular response of the peritoneum to injury.
- ◆ To develop dependable rat models for generating abdominal adhesions that allow for objective evaluation and quantification.



● MAJOR OBSERVATIONS

- ◆ Mesothelial cells completely cover surgical mesh and subcutaneous tissue by postoperative day 7.
- ◆ A re-peritonealized surface is adhesion-resistant.



● Publications

- ◆ Baptista ML, Bonsack ME, Felemovicus I, Delaney JP. Abdominal adhesions to prosthetic mesh evaluated by laparoscopy and electron microscopy. *J Am Coll Surg* 2000;190:271-80. Pub 2
- ◆ Felemovicus I, Bonsack ME, Hagerman G, Delaney JP. Prevention of adhesions to polypropylene mesh. *J Am Coll Surg* 2004;198:543-8.