

# Micropatterning of prothrombotic surfaces for measuring platelet function, coagulation, and anticoagulation

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## Technology description

There is an unmet need in clinical hematology for global assays of hemostatic potential. We define global assays are those that incorporate all the major elements of clot formation including platelets, coagulation, blood flow, and endothelial function. This invention describes methods for patterning prothrombotic molecules on surfaces with micrometer precision. The novelty of the invention is the description of methods to co-pattern molecules that induce platelet adhesion and aggregation, coagulation, and anticoagulation.

## Application area

Potential Areas of Application  
• Coagulation and platelet function testing  
• Evaluation of antiplatelet and anticoagulation drugs

## Advantages

Main Advantages of this Invention  
• Ability to measure in both static and flow based assays  
• Incorporates coagulation, anticoagulation and platelet function into one assay  
• More accurate than current methods

## Institution

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