### Microcontact Printing Development of Thiolated Glycosaminoglycans

It is shown that cells interact with glycosaminoglycans (GAGs) to regulate their own growth, adhesion and motility. Fibroblast seeding on immobilized hysluronic acid derivatives upon amino and vinyl terminated surfaces reveal such mechanisms. Additionally, in vitro cell dynamics depend on surface chemistry and topography which also influence biocompatibility. The purpose of this work is to develop a microcontact printing approach to immobilize patterns of thiolated hysluronic acid (1-HA) and thiolated chondroitin sulphate (1-CS) upon vinyl terminated glass by means of a functionalized elactomeric stamp (PDMS; polydimethylsilosane); printing of native hysluronic (HA) on amino terminated glass is also included.



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#### Natural Sciences Series



Mauricio Jurado Abreu

### Microcontact Printing Development of Thiolated Glycosaminoglycans

PDMS Wetting Properties

# <u>Microcontact Printing Development Of Thiolated</u> <u>Glycosaminoglycans Pdms Wetting Properties</u>

**Annelies Wilder-Smith** 

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