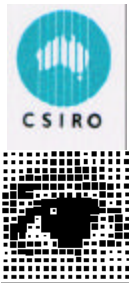


Research Topics 1999



UV Modification of Polymers for Enhanced Bio-compatibility

Collaborating Organisations:



CSIRO Division of Molecular Science

CRC for Eye Research and Technology.

Objectives

To investigate the uv modification of polymer materials with the aim of improving the biocompatibility of the surface or improving the adhesion of cell cultures to the modified surface.

Expected Outcomes

UV radiation modification of polymer surfaces may be used to enhance the attachment of polar groups that will enhance the wettability of the surface. A second UV modification is the generation of specific chemical groups such as hydroxyls, aldehydes, carbonyls and carboxylic acids which can be used for the covalent attachment of ultra-thin but highly wettable surface layers. This work is expected to be of importance to the modification of polymers used for cell culturing and contact lenses.

Researcher

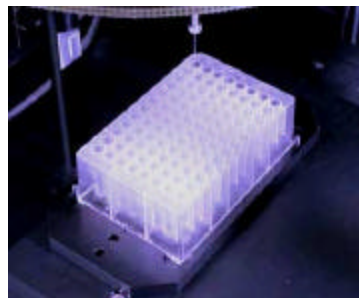
Marcella Browne

Research Coordinators:

A/Prof Erol Harvey (IRIS)
Dr. Hans Griesser (CSIRO)



Contact lens



Microtiter plates