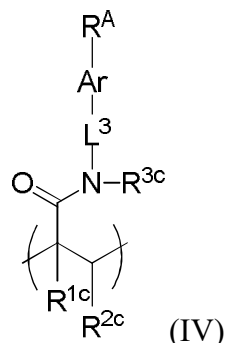


ABSTRACT

NOVEL POLYMERS AND DNA COPOLYMER COATINGS

The present invention relates to a polymer for surface functionalization, comprising a recurring unit of Formula (IV):



wherein: each R^{1c} and R^{2c} is independently selected from hydrogen, optionally substituted alkyl or optionally substituted phenyl; R^{3c} is selected from hydrogen, optionally substituted alkyl, optionally substituted phenyl, or optionally substituted C₇₋₁₄ aralkyl; Ar is selected from an optionally substituted C₆₋₁₀ aryl or an optionally substituted 5 or 6 membered heteroaryl; R^A is optionally substituted tetrazine; and L³ is selected from a single bond, an optionally substituted alkylene linker or an optionally substituted heteroalkylene linker. The invention also relates to a substrate comprising said polymer and to a method for immobilizing a polymer to a first surface of a substrate.

[Figure 3A]