



Perivascular Drug Delivery System

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The Invention

The present technology provide compositions that are drug delivery systems for the sustained release of anti-stenotic drugs for the treatment and prevention of occlusion of blood vessels, particularly after perivascular surgery. The compositions include a hydrogel, unimolecular micelles dispersed within the hydrogel, and an effective amount of anti-stenotic drug dispersed within the unimolecular micelle. The hydrogel may be a di- or tri-block copolymer comprising one block of poly(ethylene glycol) (PEG) and one or two blocks of poly(lactic-co-glycolic acid) (PLGA). The unimolecular micelle may include three domains: a dendritic polymer core, hydrophobic block polymers (e.g., PVL, PVCL, and/or PCL) attached to the core and PEG attached to the hydrophobic block polymers.

Additional Information

For More Information About the Inventors

- [Shaoqin Gong](#)

Tech Fields

- [Therapeutics & Vaccines : Cardiovascular](#)

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847