Sustained Delivery of Ocular Therapeutics

OCR Number: OCR 4994

Description:
Sustained delivery of ocular therapeutics by injectable, degradable microparticles.

Advantages:
- Sustained and local delivery without the use of implants negates frequent administration and reduces side effects
- Polymer/drug interactions and degradation tailored to direct delivery profile
- Formulations to deliver both hydrophobic and hydrophilic drugs
- All drugs and polymers have been previously FDA-approved

Indications: Glaucoma, diabetic retinopathy, uveitis, AMD

Stage of Development: Small animal studies showed sustained release of timolol over 90 days, triamcinolone over 5 months and methotrexate over 35 days. Larger animal studies in progress.


Publications:
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from poly (lactic-co-glycolic acid)/poly (lactic acid) microspheres for over 3 months. Journal of microencapsulation, 26(1), 18-26. [Pub Med]