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.

**Published/Issued Patents:**
- U.S. App. Pub. No. 20110206773

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

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