

Accepted Manuscript

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PII: S0169-409X(17)30036-4
DOI: doi:[10.1016/j.addr.2017.04.001](https://doi.org/10.1016/j.addr.2017.04.001)
Reference: ADR 13096

To appear in: *Advanced Drug Delivery Reviews*

Received date: 22 September 2016
Revised date: 2 April 2017
Accepted date: 3 April 2017



Please cite this article as: Dileep R. Janagam, Linfeng Wu, Tao L. Lowe, Nanoparticles for drug delivery to the anterior segment of the eye, *Advanced Drug Delivery Reviews* (2017), doi:[10.1016/j.addr.2017.04.001](https://doi.org/10.1016/j.addr.2017.04.001)

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Abbreviations: PACA, poly(alkyl cyanoacrylate); CsA, cyclosporine A; IOBA-NHC, spontaneously immortalized epithelial cell line from normal human conjunctiva; HCE, human corneal epithelial cells; FITC, fluorescein isothiocyanate; HA, hyaluronic acid; IOP, intraocular pressure; CH, cholesterol; CS-CH, cholesterol modified chitosan; PLA, poly(lactide); PLGA, poly(lactide-co-glycoside); PCL, poly(ϵ -caprolactone); GRGDS, Gly-Arg-Gly-Asp-Ser; RGD, Arg-Gly-Asp; BXD, boxed molecular dynamics; BKC, benzalkonium chloride; SLN, solid lipid nanoparticles; RCE, corneal epithelial cells; GMS, glyceryl monostearate; HET-CAM, Hen's Egg Test - Chorioallantoic Membrane; NLC, nanostructured lipid carriers; PAMAM, polyamidoamine; DPT, dendritic polyguanidilyated translocators; PHEMA, poly(2-hydroxyethyl methacrylate); PEG, poly(ethylene glycol); EGDMA, ethylene glycol dimethacrylate; PEGDMA, poly(ethylene glycol dimethacrylate); PPGT, poly(propoxylated glyceryl triacylate); VEGF, vascular endothelial growth; PDI, polydispersity index; *AUC*, the area under curve. *MRT*, mean residence time; CS-NAC, N-acetyl-L-cysteine functionalized chitosan; PK, pharmacokinetics; PD, pharmacodynamics; HEC, human corneal epithelial cells.

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