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所有發表期刊論文

1. Chou SF, Lee CH, **Lai JY*** (2018) “Bioengineered keratocyte spheroids fabricated on chitosan coatings enhance tissue repair in a rabbit corneal stromal defect model”, *Journal of Tissue Engineering and Regenerative Medicine*, 12, 316-320.
2. Luo LJ, **Lai JY***, Chou SF, Hsueh YJ, Ma DHK* (2018) “Development of gelatin/ascorbic acid cryogels for potential use in corneal stromal tissue engineering”, *Acta Biomaterialia*, 65, 123-136.
3. Liao YT, Lee CH, Chen ST, **Lai JY***, Wu KCW* (2017) “Gelatin-functionalized mesoporous silica nanoparticles with sustained release properties for intracameral pharmacotherapy of glaucoma”, *Journal of Materials Chemistry B*, 5, 7008-7013.
4. Lee CH, Li YJ, Huang CC*, **Lai JY*** (2017) “Poly(ϵ -caprolactone) nanocapsule carriers with sustained drug release: single dose for long-term glaucoma treatment”, *Nanoscale*, 9, 11754-11764.
5. Jian HJ, Wu RS, Lin TY, Li YJ, Lin HJ, Harroun SG, **Lai JY***, Huang CC* (2017) “Super-cationic carbon quantum dots synthesized from spermidine as an eye drop formulation for topical treatment of bacterial keratitis”, *ACS Nano*, 11, 6703-6716.
6. **Lai JY***, Luo LJ (2017) “Chitosan-g-poly(*N*-isopropylacrylamide) copolymers as delivery carriers for intracameral pilocarpine administration”, *European Journal of Pharmaceutics and Biopharmaceutics*, 113, 140-148.
7. **Lai JY***, Ma DHK (2017) “Ocular biocompatibility of gelatin microcarriers functionalized with oxidized hyaluronic acid”, *Materials Science & Engineering C-Materials for Biological Applications*, 72, 150-159.
8. Luo LJ, **Lai JY*** (2017) “The role of alkyl chain length of monothiol-terminated alkyl carboxylic acid in the synthesis, characterization, and application of gelatin-g-poly(*N*-isopropylacrylamide) carriers for antiglaucoma drug delivery”, *Acta Biomaterialia*, 49, 344-357.
9. Chou SF, Luo LJ, **Lai JY***, Ma DHK (2017) “Role of solvent-mediated carbodiimide cross-linking in fabrication of electrospun gelatin nanofibrous membranes as ophthalmic biomaterials”, *Materials Science & Engineering C-Materials for Biological Applications*, 71, 1145-1155.
10. Lai PX, Chen CW, Wei SC, Lin TY, Jian HJ, Lai IPJ, Mao JY, Hsu PH, Lin HJ,

Tzou WS, Chen SY, Harroun SG, **Lai JY***, HuangCC* (2016) “Ultrastrong trapping of VEGF by graphene oxide: anti-angiogenesis application”, *Biomaterials*, 109, 12-22.

11. Chou SF, Luo LJ, **Lai JY*** (2016) “Gallic acid grafting effect on delivery performance and antiglaucoma efficacy of antioxidant-functionalized intracameral pilocarpine carriers”, *Acta Biomaterialia*, 38, 116-128.
12. Chou SF, **Lai JY***, Cho CH, Lee CH (2016) “Relationships between surface roughness/stiffness of chitosan coatings and fabrication of corneal keratocyte spheroids: effect of degree of deacetylation”, *Colloids and Surfaces B-Biointerfaces*, 142, 105-113.
13. Sun CC, Chou SF, **Lai JY***, Cho CH, Lee CH (2016) “Dependence of corneal keratocyte adhesion, spreading, and integrin β 1 expression on deacetylated chitosan coating”, *Materials Science & Engineering C-Materials for Biological Applications*, 63, 222-230.
14. Ma DHK*, Chen HC, Ma KSK, **Lai JY***, Yang U, Yeh LK, Hsueh YJ, Chu WK, Lai CH, Chen JK (2016) “Preservation of human limbal epithelial progenitor cells on carbodiimide cross-linked amniotic membrane via integrin-linked kinase-mediated Wnt activation”, *Acta Biomaterialia*, 31, 144-155.
15. **Lai JY*** (2016) “Hyaluronic acid concentration-mediated changes in structure and function of porous carriers for corneal endothelial cell sheet delivery”, *Materials Science & Engineering C-Materials for Biological Applications*, 59, 411-419.

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