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所有發表期刊論文

1. **Lee IC**, Chang JF and Juang RS. Recent advances and perspectives on capture and concentration of label-free rare cells for biomedical science and engineering research. *Journal of the Taiwan Institute of Chemical Engineers*. 2018, In press. (SCI, IF: 4.217)
2. Liu YC, **Lee IC\* (equal contribution)**, Lei KF. Towards the Development of an Artificial Brain on a Micropatterned and Material-regulated Biochip by Guiding and Promoting the Differentiation and Neurite Outgrowth of Neural Stem/Progenitor Cells. *ACS applied materials and interfaces*. 2018, 10(6), 5269-5277. (SCI, IF: 7.504 Materials science, multidisciplinary 26/251)
3. Liu YC, **Lee IC\* (equal contribution)**, Chen PY. Biomimetic Brain Tumor Niche Regulates Glioblastoma Cells Towards a Cancer Stem Cell Phenotype. *Journal of Neuro-Oncology*. Publish online. (SCI, IF: 2.980)
4. **Lee IC**, Wu YC, Tsai SW, Chen CH, Wu MH\*. "Fabrication of Two-layer Dissolving Polyvinylpyrrolidone Microneedles with Different Molecular Weights for in Vivo Insulin Transdermal Delivery," *RSC Advances*. 2017, 7, 5067-5075. (SCI, IF:3.289, Chemistry, multidisciplinary 49/193)
5. **Lee IC\***, Lin WM, Shu JC, Tsai SW, Chen CH, and Tsai MT. Formulation of two-layer dissolving polymeric microneedle patches for insulin transdermal delivery in diabetic mice. *Journal of Biomedical Materials Research Part A*. 2017, 105(1), 84-93 (SCI, IF: 3.263, Engineering Biomedical 13/76)
6. Lee MT, **Lee IC**, Tsai SW, Chen CH, Wu MH and Juang YJ\*. Spin coating of polymer solution on polydimethylsiloxane mold for fabrication of microneedle patch. *Journal of the Taiwan Institute of Chemical Engineers*. 2017, 70, 42-48 (SCI, IF:4.217, Engineering, Chemical 19/134)
7. Lin YH\*, **Lee IC (equal first)**, Hsu WC, Hsu CH, Chang KP, Gao SS. Rapid fabrication method of a microneedle mold with controllable needle height and width. *Biomedical microdevices*. 2016. 18(5)85. (SCI, IF: 2.227 Engineering Biomedical 28/76)
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9. Yi-Je Juang\*, Yu Luen Deng, and **I-Chi Lee**. Membrane filtration: An unconventional route for fabrication of the flexible and dissolvable, polymer microneedle patches. *Biomicrofluidics*. 2016, 10, 044108. (SCI, IF: 2.708, Physics, fluids&plasmas 6/30)
10. **Lee IC\***, Chuang CC, and Wu YC. Niche Mimicking for Selection and Enrichment of Liver Cancer StemCells by Hyaluronic Acid-Based Multilayer Films. *ACS applied materials and interfaces*.2015, 7 (40), 22188–22195 (SCI, IF: 7.504 Materials science, multidisciplinary 26/251)
11. Ko PT, **Lee IC**, MC Chen, SW Tsai\*. Polymer microneedles fabricated from PCL and PCL/PEG blends for transdermal delivery of hydrophilic compounds. *Journal of the Taiwan Institute of Chemical Engineers*. 2015, 51, 1-8. (SCI, IF: 4.217, Engineering, Chemical 19/134)
12. **Lee IC\***, and Chang JF. Label-free Selection and Enrichment of Cancer Stem Cells by Layer by Layer Build-Up Polyelectrolyte Multilayer films. *Colloids and Surfaces B: Biointerfaces* 2015, 125, 120-126 (SCI, IF:3.887, Biophysics 14/74)
13. **Lee IC\***, Wu YC, Cheng EM, and Yang WT. Biomimetic niche for neural stem cell differentiation using PLL/HA multilayer films. *Journal of biomaterials application* 2015, 29(10), 1418-1427 (SCI, IF: 2.197, Engineering, Biomedical,Rank: 29/76)
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16. Lei KF\*, **Lee IC\*** (eaqul contribution), Liu YC, and Wu YC. Successful Differentiation of Neural Stem/Progenitor CellsCultured on Electrically Adjustable Indium Tin Oxide (ITO) Surface. *Langmuir* 2014 30, 14241-14249 (SCI, IF: 3.833, Materials science, multidisciplinary 31/251)
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