



个人简介

教育背景：

01/2001--- 12/2003 博士 新加坡国立大学化工学院化学与生物分子系
09/1996--- 07/2000 学士（本科，化学工程 / 科技外语） 华东理工大学

工作经历：

09/2014--- 至今 教授 华东理工大学化工学院
06/2012--- 08/2014 副教授 华东理工大学化工学院
08/2006--- 05/2012 项目主管 组织工程国家工程研究中心
07/2005--- 03/2006 博士后 新加坡国立大学医学院
01/2004--- 06/2005 Research Fellow 新加坡国立大学化工学院

研究方向

- 1. 医用可降解生物凝胶和组织再生应用
- 2. 微球的可控制备和生物医学应用
- 3. 微载体的性能控制和细胞治疗中的应用
- 4. 微纳药物缓释制剂的工程化制备和应用

研究成果及主要发表文章

专利 Patents

- [1]. 发明创造名称：一种生物可降解材料及其制备方法和用途
专利号：ZL 200910049605.9
发明人：岑莲，曹谊林，刘伟，崔磊，李喆
- [2]. 发明创造名称：一种壳寡糖和透明质酸交联凝胶的制备方法
专利号：ZL 201210338284.6
发明人：岑莲，谢淑君，徐菊美
- [3]. 发明创造名称：一种核壳结构微载体及其制备方法
专利号：ZL 202210769838.1
发明人：岑莲，武艳飞，吴伟骞，奚桢浩，朱志华

【近年来发表的代表性论文】 Selected publications

1. C. An, Y. Chen, Y. Wu, Z. Hu, H. Zhang, R. Liu, Y. Zhou*, L. Cen*, Manipulation of porous poly(L-lactide-co- ε -caprolactone) microcarriers via microfluidics for C2C12 expansion, International Journal of Biological Macromolecules, 242, (2023) <https://doi.org/10.1016/j.ijbiomac.2023.124625>.
2. Z. Jin, Y. Zhai, Y. Zhou, P. Guo, M. Chai, W. Tan, Y. Zhou *, L. Cen*, Regulation of mesenchymal stem cell osteogenic potential via microfluidic manipulation of microcarrier surface curvature, Chemical Engineering Journal. 448 (2022) DOI10.1016/j.cej.2022.137739.
3. Y. Wu, Y. Zheng, Z. Jin, S. Li, W. Wu, C. An, J. Guo, Z. Zhu, T. Zhou*, Y. Zhou*, L. Cen*, Controllable manipulation of alginate-gelatin core-shell microcarriers for HUMSCs expansion, International Journal of Biological Macromolecules. 216 (2022) 1-13.
4. W. Song, Z. Jin, X. Huang, Z. Xi*, X. Luo*, L. Cen*, Microfluidic-preparation of PLGA microcarriers with collagen patches for MSCs expansion and osteogenic differentiation, European Polymer Journal. 170 (2022) DOI10.1016/j.eurpolymj.2022.111177.
5. J. Zhou, Y. Zhai, J. Xu, T. Zhou*, L. Cen*, Microfluidic preparation of PLGA composite microspheres with mesoporous silica nanoparticles for finely manipulated drug release, International Journal of Pharmaceutics. 593 (2021) DOI10.1016/j.ijpharm.2020.120173.
- 6.T. Zhou, S. Chen, X. Ding, Z. Hu, L. Cen*, X. Zhang*. Fabrication and Characterization of Collagen/PVA Dual-Layer Membranes for Periodontal Bone Regeneration. Frontiers in Bioengineering and Biotechnology. 9 (2021)<https://doi.org/10.3389/fbioe.2021.630977>.
7. H. Wu, L. Shen, Z. Zhu, X. Luo, Y. Zhai, X. Hua, S. Zhao, L. Cen*, Z. Zhang*, A cell-free therapy for articular cartilage repair based on synergistic delivery of SDF-1 & KGN with HA injectable scaffold, Chemical Engineering Journal. 393 (2020) DOI10.1016/j.cej.2020.124649.
8. C. Zhu, H. Yang, L. Shen, Z. Zheng, S. Zhao, Q. Li, F. Yu, L. Cen*,Microfluidic preparation of PLGA microspheres as cell carriers with sustainable Rapa release. Journal of Biomaterials Science-Polymer Edition. 30 (2019) 737-755.
9. H. Chen, F. Jia, C. Zhu, J. Xu, X. Hua, Z. Xi, L. Shen, S. Zhao, L. Cen*,Controllable preparation of SB-3CT loaded PLGA microcapsules for traumatic-brain-injury pharmaco-therapy,Chemical Engineering Journal. 339 (2018) 346-358.
10. C. Zhu, R. Yang, X. Hua, H. Chen, J. Xu, R. Wu *, L. Cen *, Highly stretchable HA/SA hydrogels for tissue, Journal of Biomaterials Science-Polymer Edition. 29 (2018) 543-561.
11. J. Zhang, S. Yang, X. Yang, Z. Xi*, L. Zhao, L. Cen*, E.Y. Lu, Y. Yang, Novel fabricating process for porous polyglycolic acid scaffolds by melt-foaming using supercritical carbon dioxide, ACS Biomaterials Science & Engineering. 4 (2018) 694-706.
12. Z. Sun, S. Liu, K. Li, L. Tan, L. Cen*, G. Fu*, Well-defined and biocompatible hydrogels with toughening and reversible photoresponsive properties, Soft Matter. 12 (2016) 2192-2199.
13. R. Yang, L. Tan, L. Cen*, Z. Zhang*, An injectable scaffold based on crosslinked hyaluronic acid gel for tissue regeneration, RSC Advances. 6 (2016) 16838-16850.
14. Y. Zhu, H. Chen, L. Cen*, J. Wang*, Influence of abutment tooth position and adhesive point dimension on the rigidity of a dental trauma wire-composite splint, Dental Traumatology. 32 (2016) 225-230.
15. M. Dong, S. Liu, L. Tan, L. Cen*, G. Fu*, Hydrogels of chemically cross-linked and organ-metallic complexed interpenetrating PEG networks, Chinese Journal of Polymer Science. 34 (2016) 637-648.
16. W. Zhu, Q. Zhang, Y. Zhang, L. Cen*, J. Wang*, PDL regeneration via cell homing in delayed replantation of avulsed teeth, Journal of Translational Medicine. 13 (2015) 357.
17. L. Tan, J. Wang, S. Yin, W. Zhu, G. Zhou, Y. Cao*, L. Cen*, Regeneration of dentin – pulp-like tissue using an injectable tissue engineering technique, RSC Advances. 5 (2015) 59723-59737.
18. Y. Li, C. Zhou, L. Xu, F. Yao, L. Cen*, et al, Stimuli-responsive hydrogels prepared by simultaneous click chemistry and metal-ligand coordination, RSC Advances. 5 (2015) 18242-18251.
19. S.S Qian, C. Zhou, L. Xu, L. Cen*, et al, High strength biocompatible PEG single-network hydrogels, RSC Advances. 4 (2014) 25241-25250.
20. Y.W. Sun, C. Zhou, A.K. Zhang, L.Q. Xu, F. Yao, L. Cen*, et al, The synthesis of hydrogels with controlled distribution of polymer brushes on hydrogel network, Applied Surface Science. 320 (2014) 818-828.
21. F. Jia, Y.H. Yin, G.Y. Gao, Y. Wang, L. Cen*, et al, MMP-9 Inhibitor SB-3CT Attenuates Behavioral Impairments and Hippocampal Loss after Traumatic Brain Injury in Rat, Journal of Neurotrauma. 31 (2014) 1225-1234.
22. S. Xie, Q. Zhu, B. Wang, H. Gu, W. Liu, L. Cui, L. Cen*, et al, Incorporation of tripolyphosphate nanoparticles into fibrous poly(lactide-co-glycolide) scaffolds for tissue engineering, Biomaterials. 31 (2010) 5100.-5109
23. Z. Li, L. Cen*, L. Zhao, et al,Preparation and evaluation of thiolated chitosan scaffolds for tissue engineering, Journal of Biomedical Materials Research A.92A (2010) 973 – 978.
24. L. Cen, K.G. Neoh, J. Sun, et al, Labeling of adipose derived stem cells by oleic acid modified magnetic nanoparticles, Advanced Functional Materials. 19 (2009) 1158-1166.
25. L. Cen, W. Liu, L. Cui, Y. Cao, Collagen tissue engineering: development of novel biomaterials and applications, Pediatric Research. 63 (2008) 492-496.
26. L. Cen, K.G. Neoh, E.T. Kang, Au-Pt bimetallic nanoparticles formation via viologen-mediated reduction on polymeric nanospheres, Journal of Colloid and Interface Science. 300 (2006) 190-199.
27. L. Cen, K.G. Neoh, E.T. Kang, Gold nanocrystal formation on viologen functionalized polymeric nanospheres, Advanced Materials. 17 (2005)1656-1661.
28. L. Cen, K.G. Neoh, Y.L. Li, E.T. Kang, Assessment of in vitro bioactivity of hyaluronic acid and sulfated hyaluronic acid functionalized electroactive polymer, Biomacromolecules. 5 (2004) 2238-2246.
29. L. Cen, K.G. Neoh, E.T. Kang, Antibacterial activity of cloth functionalized with n-alkylated poly(4-vinylpyridine), Journal of Biomedical Materials research A. 71A (2004) 70-80.
30. L. Cen, K.G. Neoh, E.T. Kang, L. Ying, Surface modification of polymeric films and membranes to achieve antibacterial properties, Surface and Interface Analysis. 36 (2004) 716-719.
31. L. Cen, K.G. Neoh, E.T. Kang, Surface functionalization of polypyrrole film with glucose oxidase and viologen, Biosensors & Bioelectronics. 18 (2003) 363-374.
32. L. Cen, K.G. Neoh, E. Kang, Surface functionalization technique for conferring antibacterial properties to polymeric and cellulosic surfaces, Langmuir. 19 (2003) 10295-10303.
33. L. Cen, K.G. Neoh, E. Kang, Surface functionalization of electrically conductive polypyrrole film with hyaluronic acid, Langmuir. 18 (2002) 8633-8640.