

New biomaterials derived from poly(lactic acids) : novel approaches to combine biodegradation, x-ray contrast and controlled local drug release

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New Biomaterials Derived from Poly(lactic acids)

Novel Approaches to Combine Biodegradation, X-ray Contrast and Controlled Local Drug Release

Propositions Associated with the Thesis

Yujing Wang

- 1 The aspect of biodegradation has become an important avenue for innovation in various minimally invasive therapies employing biomaterials. (*this thesis*)
- 2 (S)-2-hydroxy-3-(4-iodobenzyloxy) propanoic acid is miscible with poly(D,L-lactic acid), at least up to a mass percentage of 10%. (*this thesis*)
- 3 While hydrogen bonding is known as “soft-binding”, its importance cannot be neglected. (*this thesis*)
- 4 Whole-stent X-ray visibility helps interventionalists to ensure that the scaffold deploys completely, thereby improving safety, accuracy and clinical performance of stents. (*this thesis*)
- 5 Combined release of an anti-angiogenic agent and a cytostatic agent from a biodegradable microparticle that is arrested inside a solid tumor provides an effective strategy to inhibit tumor growth *in situ*. (*this thesis*)
- 6 Drug-loaded microspheres encounter complicated regulatory issues on the pathway to introduction in the clinical practice because they represent medical device/drug combinations. (*this thesis*)
- 7 Biomaterials have progressed from surgeon-heroes, sometimes working with engineers, to a field dominated by engineers and scientists, to our modern era with the biologist as a critical player. (*Biomaterial Science: an Introduction to Materials in Medicine, 2nd edition*)
- 8 Utilization of polymers as biomaterials has greatly impacted the advancement of modern medicine. (*Journal of Polymer Science Part B: Polymer Physics*)
- 9 Modern advances in drug delivery are now predicated upon the rational design of polymers tailored for specific cargo and engineered to exert distinct biological functions. (*Annual Review of Chemical and Biomolecular Engineering*)
- 10 Try not to become a man of success, but rather try to become a man of value. (*Albert Einstein*)
- 11 不闻不若闻之，闻之不若见之，见之不若知之，知之不若行之；学至于行之而止矣。（孔子）
I hear and I forget. I see and I remember. I do and I understand. (*Confucius*)