

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

Citation for published version (APA):

Wang, Y. (2015). *New biomaterials derived from poly(lactic acids) : novel approaches to combine biodegradation, x-ray contrast and controlled local drug release*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. <https://doi.org/10.26481/dis.20150616yw>

Document status and date:

Published: 01/01/2015

DOI:

[10.26481/dis.20150616yw](https://doi.org/10.26481/dis.20150616yw)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

Download date: 20 Apr. 2024

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*)