

Topographically enhanced cell culture systems to induce and monitor mechanobiology

Citation for published version (APA):

Beijer, N. R. M. (2018). *Topographically enhanced cell culture systems to induce and monitor mechanobiology*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20180413nb>

Document status and date:

Published: 01/01/2018

DOI:

[10.26481/dis.20180413nb](https://doi.org/10.26481/dis.20180413nb)

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.

Propositions accompanying the dissertation

TOPOGRAPHICALLY ENHANCED CELL CULTURE SYSTEMS TO
INDUCE AND MONITOR MECHANOBIOLOGY

By Nick R.M. Beijer, 13th of April 2018

1. All relevant biological discoveries were made using analogies to nature. (this thesis)
2. The use of flat polystyrene as tissue culture plastic makes 98% of data derived from toxicology studies irrelevant. (this thesis)
3. Cellular function follows cell shape. (this thesis)
4. Some routes of mechanotransduction can exclusively be initiated by nanotopographies rather than microtopographies. (this thesis)
5. The TopoWellPlate is the next technological step towards an animal test free environment for high-throughput drug screening. (this thesis)
6. Cell-material interaction is a complex and unsolvable equation.
7. A multidisciplinary team without members with a multidisciplinary background is bound to end up in chaos.
8. “Small is beautiful, but smaller is the aim.” (Adam S.G. Curtis, 2004)
9. Moving a laboratory is more than moving resources and equipment.
10. “A neat desk is the sign of a well-ordered mind.” (Truman Twill, 1941)