### Accepted Manuscript

Full length article

Beyond the Protein Corona – Lipids Matter for Biological Response of Nanocarriers

Julius Müller, Domenik Prozeller, Artur Ghazaryan, Maria Kokkinopoulou, Volker Mailänder, Svenja Morsbach, Katharina Landfester

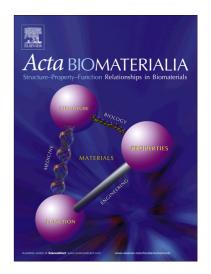
PII: S1742-7061(18)30119-3

DOI: https://doi.org/10.1016/j.actbio.2018.02.036

Reference: ACTBIO 5341

To appear in: Acta Biomaterialia

Received Date: 13 November 2017 Revised Date: 25 January 2018 Accepted Date: 28 February 2018



Please cite this article as: Müller, J., Prozeller, D., Ghazaryan, A., Kokkinopoulou, M., Mailänder, V., Morsbach, S., Landfester, K., Beyond the Protein Corona – Lipids Matter for Biological Response of Nanocarriers, *Acta Biomaterialia* (2018), doi: https://doi.org/10.1016/j.actbio.2018.02.036

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## **ACCEPTED MANUSCRIPT**

## Title page:

#### Beyond the Protein Corona - Lipids Matter for Biological Response of Nanocarriers

Julius Müller, <sup>a,b,‡</sup> Domenik Prozeller, <sup>a,‡</sup> Artur Ghazaryan, <sup>a</sup> Maria Kokkinopoulou, <sup>a</sup> Volker Mailänder, <sup>a,b</sup> Svenja Morsbach <sup>a,\*</sup> and Katharina Landfester <sup>a,\*</sup>

\*Corresponding author: Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany. E-mail addresses: <a href="mailto:morsbachs@mpip-mainz.mpg.de">morsbachs@mpip-mainz.mpg.de</a>, <a href="mailto:landfester@mpip-mainz.mpg.de">landfester@mpip-mainz.mpg.de</a>

Abbreviated title: Beyond the protein corona

Abbreviations: LDL, low-density lipoprotein; HDL, high-density lipoprotein; NP, nanoparticle; VLDL, very low-density lipoprotein; ITC, isothermal titration calorimetry; LC-MS, liquid chromatography—mass spectrometry; PS-NP, polystyrene nanoparticle; TEM, transmission electron microscopy; DLS, dynamic light scattering; Apo-A1, apolipoprotein A1; Apo-B100, apolipoprotein B100; PBS, phosphate-buffered saline; TC, total cholesterol; SDS-PAGE, sodium dodecyl sulfate polyacrylamide gel electrophoresis; BSA, bovine serum albumin; MWCO, molecular weight cut-off; FC, free cholesterol; CE, cholesteryl esters; DMEM, Dulbecco's modified eagle medium; FBS, fetal bovine serum; EDTA, ethylenediaminetetraacetic acid; BODIPY, boron-dipyrromethene.

<sup>&</sup>lt;sup>a</sup> Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany.

<sup>&</sup>lt;sup>b</sup> Dermatology Clinic, University Medical Center Mainz, Langenbeckstraße 1, 55131 Mainz, Germany.

<sup>&</sup>lt;sup>‡</sup> These authors contributed equally to the manuscript.

#### Download English Version:

# https://daneshyari.com/en/article/6482975

Download Persian Version:

https://daneshyari.com/article/6482975

<u>Daneshyari.com</u>