

Accepted Manuscript

Hydrophobic interactions modulate antimicrobial peptoid selectivity towards anionic lipid membranes

Konstantin Andreev, Michael W. Martynowycz, Mia L. Huang, Ivan Kuzmenko, Wei Bu, Kent Kirshenbaum, David Gidalevitz



PII: S0005-2736(18)30101-9
DOI: doi:[10.1016/j.bbamem.2018.03.021](https://doi.org/10.1016/j.bbamem.2018.03.021)
Reference: BBAMEM 82746

To appear in:

Received date: 8 December 2017
Revised date: 15 March 2018
Accepted date: 26 March 2018

Please cite this article as: Konstantin Andreev, Michael W. Martynowycz, Mia L. Huang, Ivan Kuzmenko, Wei Bu, Kent Kirshenbaum, David Gidalevitz, Hydrophobic interactions modulate antimicrobial peptoid selectivity towards anionic lipid membranes. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Bbamem(2018), doi:[10.1016/j.bbamem.2018.03.021](https://doi.org/10.1016/j.bbamem.2018.03.021)

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.

Hydrophobic Interactions Modulate Antimicrobial Peptoid Selectivity towards Anionic Lipid Membranes

Konstantin Andreev^{†‡}, Michael W. Martynowycz^{† § Δ}, Mia L. Huang^{†1}, Ivan Kuzmenko[§], Wei Bu[⊥], Kent Kirshenbaum[‡], and David Gidalevitz^{†}*

[†] Department of Physics, Center for Molecular Study of Condensed Soft Matter (μ CoSM), Pritzker Institute of Biomedical Science and Engineering, Illinois Institute of Technology, 3440 South Dearborn Street, Chicago, Illinois 60616, United States

[‡] Department of Chemistry, New York University, 100 Washington Square East, New York, New York 10003, United States

[§] Advanced Photon Source, Argonne National Laboratory, 9700 South Cass Avenue, Lemont, Illinois 60439, United States

[⊥] The Center for Advanced Radiation Sources (CARS), University of Chicago, Chicago, Illinois 60637, United States

Antimicrobial peptoids • lipid membranes • CYTOTOXICITY • AFM • HYDROPHOBICITY • X-ray scattering

ABSTRACT: Hydrophobic interactions govern specificity for natural antimicrobial peptides. No such relationship has been established for synthetic peptoids that mimic antimicrobial peptides.

Download English Version:

<https://daneshyari.com/en/article/8299432>

Download Persian Version:

<https://daneshyari.com/article/8299432>

[Daneshyari.com](https://daneshyari.com)