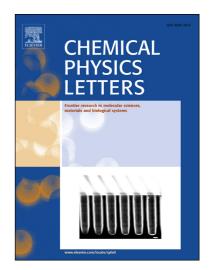
Accepted Manuscript

Research paper

Influence of Protein Crowder Size on Hydration Structure and Dynamics in Macromolecular Crowding

Po-hung Wang, Isseki Yu, Michael Feig, Yuji Sugita

PII:	S0009-2614(17)30023-4
DOI:	http://dx.doi.org/10.1016/j.cplett.2017.01.012
Reference:	CPLETT 34450
To appear in:	Chemical Physics Letters
Received Date:	16 September 2016
Revised Date:	6 January 2017
Accepted Date:	7 January 2017



Please cite this article as: P-h. Wang, I. Yu, M. Feig, Y. Sugita, Influence of Protein Crowder Size on Hydration Structure and Dynamics in Macromolecular Crowding, *Chemical Physics Letters* (2017), doi: http://dx.doi.org/10.1016/j.cplett.2017.01.012

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.

Influence of Protein Crowder Size on Hydration Structure and Dynamics in Macromolecular Crowding

Po-hung Wang,^{†,*} Isseki Yu,^{†,‡,*} Michael Feig,^{#,⊥} Yuji Sugita^{†,‡,⊥,□}

[†]RIKEN Theoretical Molecular Science Laboratory, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan; [‡]RIKEN iTHES, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan; [#]Department of Biochemistry & Molecular Biology, Michigan State University, East Lansing, Michigan 48824, United States; [⊥]RIKEN Quantitative Biology Center (QBiC), Integrated Innovation Building 7F, 6-7-1 Minaotojima-Minamimachi, Chuo-ku, Kobe, Hyogo, 650-0047, Japan; [□]RIKEN Advanced Institute for Computational Science (AICS), 7-1-26 Minatojima-Minamimachi, Chuo-ku, Kobe, Hyogo 650-0047, Japan.

Keywords: Macromolecular Crowding, Solvent Accessible Surface Area, Hydration, Diffusion coefficient, Protein Crowders

Corresponding Author: Yuji Sugita, RIKEN Theoretical Molecular Science Laboratory, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan; Phone: +81-48-462-1407; Fax: +81-48-467-4532; E-mail: sugita@riken.jp

* These two authors equally contributed the work.

Download English Version:

https://daneshyari.com/en/article/5378156

Download Persian Version:

https://daneshyari.com/article/5378156

Daneshyari.com