This article was downloaded by:

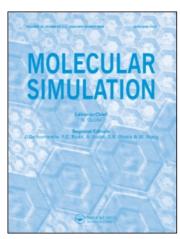
On: 14 January 2011

Access details: Access Details: Free Access

Publisher Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-

41 Mortimer Street, London W1T 3JH, UK



Molecular Simulation

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713644482

Consequences of Sequential Ca² Occupancy for the Structure and Dynamics of Calbindin_{D9K}: Computational Simulations and Comparison to Experimental Determinations in Solution (10, 309, (1993))

Ernest L. Mehlera; Joseph N. Kushicka; Harel Weinsteina

^a Department of Physiology and Biophysics, Mount Sinai School of Medicine of the City University of New York, New York, NY

To cite this Article Mehler, Ernest L., Kushick, Joseph N. and Weinstein, Harel(1994) 'Consequences of Sequential Ca^2 Occupancy for the Structure and Dynamics of Calbindin, Computational Simulations and Comparison to Experimental Determinations in Solution (10, 309, (1993)), Molecular Simulation, 13: 3, 241

To link to this Article: DOI: 10.1080/08927029408021988 URL: http://dx.doi.org/10.1080/08927029408021988

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: http://www.informaworld.com/terms-and-conditions-of-access.pdf

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

Clarification

CONSEQUENCES OF SEQUENTIAL CA²⁺ OCCUPANCY FOR THE STRUCTURE AND DYNAMICS OF CALBINDIN_{D9K}: COMPUTATIONAL SIMULATIONS AND COMPARISON TO EXPERIMENTAL DETERMINATIONS IN SOLUTION (10, 309, (1993))

ERNEST L. MEHLER, JOSEPH N. KUSHICK AND HAREL WEINSTEIN

Department of Physiology and Biophysics, Mount Sinai School of Medicine of the City University of New York, New York, NY 10029

(Received September 1993)

Due to the slow convergence of the atomic rms fluctuations with the length of time for which they are calculated, the entropic contribution to the cooperativity of Ca^{2+} binding to calbindin_{D9k}, discussed on pp. 329-330, has to be evaluated for a longer interval than used for the rms values given in Table 5. The value of $\triangle \triangle$ obtained from the rms fluctuations given in Table 5 is about 0.5 Kcal/mole. For the longer interval of 179 ps the average rms values calculated for CAB_0 , CAB_1 and CAB_2 (see original article for definitions) are 4.5 Å, 0.9 Å and 0.8 Å, respectively. The value of $\triangle \triangle$ calculated from these rms fluctuations according to the equations in the the original article is about 1.0 Kcal/mole. It is noted that these trends do not affect the interpretation or conclusions regarding the significance of the configurational entropy for the cooperativity of binding in calbindin_{D9k}.