Study of characteristics of electrostatic interaction between RNases and mica surface using atomic force microscopy

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Abstract

The physical adsorption of pancreatic RNase A and Bacillus intermedius RNase on a negatively charged mica surface was investigated using atomic force microscopy. An analysis of the kinetics of RNase adsorption showed that Bacillus intermedius RNase was adsorbed 3-5 times more effectively than RNase A. At the same time, the adsorption of Bacillus intermedius RNase on mica was accompanied by the aggregation of enzyme molecules. © 2011 Pleiades Publishing, Ltd.

http://dx.doi.org/10.1134/S1995078011040082