Diabetes Mellitus caused by mutations in human insulin: Analysis of impaired receptor binding of insulins Wakayama, Los Angeles and Chicago using Pharmacoinformatics

Md Ataul Islam¹, Sagar Bhayye², Adebayo A. Adeniyi³, Mahmoud E.S. Soliman³, Tahir S. Pillay¹, ³⁴

¹Department of Chemical Pathology, Faculty of Health Sciences, University of Pretoria and National Health Laboratory Service Tshwane Academic Division, Pretoria, South Africa.
²Department of Chemical Technology, University of Calcutta, 92, A. P. C. Road, Kolkata – 700 009, India.
³Discipline of Pharmaceutical Sciences, School of Health Sciences, University of KwaZulu-Natal, Durban, 4000, South Africa
⁴Division of Chemical Pathology, University of Cape Town, Cape Town, South Africa

Supplementary materials

Figure S1: Time vs. RMSD, Number of Frame vs. energies
Figure S1: Superimposed structure of simulated (green) and non-simulated (red) structures of a) native insulin; b) insulin Wakayama; c) insulin Los Angeles; and d) insulin Chicago.