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Expertise

Atomic, Molecular and Chemical

Modeling and Simulation of Biomolecules

Work experience

1. Pavanatma College, Murrickacherry 2013 — Present

Assistant Professor

Idukki

Education

1. PhD - 2010

Mahatma Gandhi University

Publication

1. Experimental Probing and Molecular Dynamics Simulation of the Molecular Recognition of DNA Duplexes by the Flavonoid Luteolin

Mary V.;Haris P.;Varghese M.K.;Aparna P.;Sudarsanakumar C.
Journal of Chemical Information and Modeling, Volume 57, Year 2017, Pages 2237-2249

2. Conformational features of benzo-homologated yDNA duplexes by molecular dynamics simulation

P. Aparna ., Mary Varughese ., Mathew K. Varghese ., P. Haris ., C. Sudarsanakumar .,
Biopolymers, Volume 105, Year 2016, Pages 55-64

3. Conformational features of benzo-homologated yDNA duplexes by molecular dynamics simulation

Aparna P.;Varughese M.;Varghese M.;Haris P.;Sudarsanakumar C.
Biopolymers, Volume 105, Year 2016, Pages 55-64

4. Molecular dynamics simulations and binding free energy analysis of DNA minor groove complexes of curcumin

Mathew Varghese Koonammackal ., Unnikrishnan Viswambharan Nair Nellipparambil ., Chellappanpillai Sudarsanakumar .,
Journal of Molecular Modeling, Volume 17, Year 2011, Pages 2805-2816

5. Molecular dynamics simulations of xDNA

Mathew K. Varghese ., Renjith Thomas ., N. V. Unnikrishnan ., C. Sudarsanakumar .,
Biopolymers, Volume 91, Year 2009, Pages 351-360

6. Molecular dynamics simulations of xDNA

Varghese M.K.;Thomas R.;Unnikrishnan N.V.;Sudarsanakumar C.
Biopolymers, Volume 91, Year 2009, Pages 351-360