

Corrigendum

Corrigendum to “All-Atom Four-Body Knowledge-Based Statistical Potentials to Distinguish Native Protein Structures from Nonnative Folds”

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In the article titled “All-Atom Four-Body Knowledge-Based Statistical Potentials to Distinguish Native Protein Structures

from Nonnative Folds” [1], there were errors in the energy values in the last column of Table 8. The corrected table is shown below.

TABLE 8: All-atom four-body statistical potential derived using a 6-letter alphabet and a 12 Å cutoff.

Quad	Count	f_{ijkl}	P_{ijkl}	s_{ijkl}
CCCC	4107297	0.112818	0.160748	0.15377
CCCM	1924	$5.28E - 05$	0.00045	0.93026
CCCN	4142684	0.11379	0.172495	0.18067
CCCO	6462239	0.177503	0.193701	0.03793
CCCS	297980	0.008185	0.005072	-0.207795
CCCX	2996	$8.23E - 05$	0.000765	0.96834
CCMM	157	$4.31E - 06$	$4.73E - 07$	-0.96026
CCMN	3758	0.000103	0.000362	0.5452
CCMO	6511	0.000179	0.000407	0.35687
CCMS	2320	$6.37E - 05$	$1.07E - 05$	-0.776892
CCMX	15	$4.12E - 07$	$1.61E - 06$	0.591
CCNN	1871781	0.051413	0.069412	0.13036
CCNO	8544461	0.234696	0.155892	-0.177683
CCNS	128008	0.003516	0.004082	0.06485
CCNX	2159	$5.93E - 05$	0.000616	1.01632
CCOO	3686844	0.101269	0.087528	-0.063328
CCOS	205846	0.005654	0.004584	-0.091103
CCOX	4995	0.000137	0.000691	0.7024
CCSS	15467	0.000425	$6.00E - 05$	-0.849914
CCSX	148	$4.07E - 06$	$1.81E - 05$	0.64875

TABLE 8: Continued.

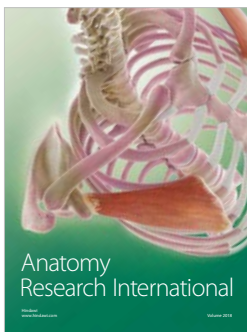
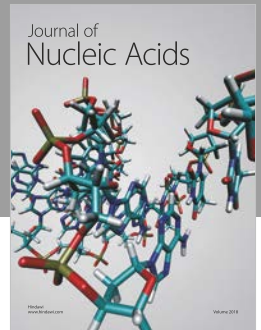
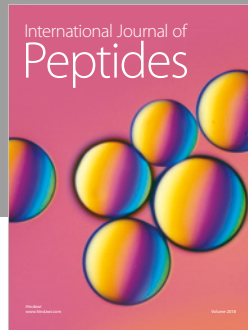
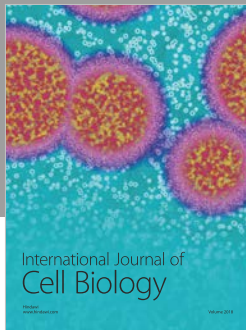
Quad	Count	f_{ijkl}	P_{ijkl}	S_{ijkl}
CCXX	161	4.42E - 06	1.37E - 06	-0.510349
CMMM	29	7.97E - 07	2.21E - 10	-3.557768
CMMN	164	4.50E - 06	2.54E - 07	-1.249604
CMMO	293	8.05E - 06	2.85E - 07	-1.451272
CMMS	665	1.83E - 05	7.46E - 09	-3.389144
CMMX	1	2.75E - 08	1.12E - 09	-1.38783
CMNN	2643	7.26E - 05	9.72E - 05	0.12663
CMNO	7243	0.000199	0.000218	0.0402
CMNS	2610	7.17E - 05	5.72E - 06	-1.098444
CMNX	30	8.24E - 07	8.62E - 07	0.01957
CMOO	9551	0.000262	0.000123	-0.33061
CMOS	1041	2.86E - 05	6.42E - 06	-0.648899
CMOX	77	2.12E - 06	9.68E - 07	-0.339447
CMSS	2052	5.64E - 05	8.40E - 08	-2.826573
CMSX	13	3.57E - 07	2.53E - 08	-1.148817
CMXX	6	1.65E - 07	1.91E - 09	-1.935563
CNNN	122810	0.003373	0.012414	0.56586
CNNO	2117811	0.058171	0.041821	-0.143315
CNNS	16884	0.000464	0.001095	0.37318
CNNX	631	1.73E - 05	0.000165	0.97912
CNOO	2981894	0.081906	0.046962	-0.241565
CNOS	99630	0.002737	0.00246	-0.04635
CNOX	2400	6.59E - 05	0.000371	0.75032
CNSS	4318	0.000119	3.22E - 05	-0.56619
CNSX	38	1.04E - 06	9.71E - 06	0.96883
CNXX	68	1.87E - 06	7.33E - 07	-0.406432
COOO	683049	0.018762	0.017579	-0.028291
COOS	38976	0.001071	0.001381	0.11057
COOX	24064	0.000661	0.000208	-0.50151
COSS	4524	0.000124	3.62E - 05	-0.536074
COSX	64	1.76E - 06	1.09E - 05	0.79279
COXX	84	2.31E - 06	8.23E - 07	-0.447847
CSSS	320	8.79E - 06	3.16E - 07	-1.44474
CSSX	5	1.37E - 07	1.43E - 07	0.01705
CSXX	4	1.10E - 07	2.15E - 08	-0.707545
CXXX	12	3.30E - 07	1.08E - 09	-2.483295
MMMM	83	2.28E - 06	3.86E - 14	-7.771426
MMMN	42	1.15E - 06	5.92E - 11	-4.290048
MMMO	31	8.51E - 07	6.64E - 11	-4.107805
MMMS	379	1.04E - 05	1.74E - 12	-6.777
MMM _X	0	0	2.62E - 13	--
MMNN	85	2.33E - 06	3.40E - 08	-1.836638
MMNO	113	3.10E - 06	7.64E - 08	-1.608913
MMNS	364	1.00E - 05	2.00E - 09	-3.698853
MMNX	0	0	3.02E - 10	--
MMOO	320	8.79E - 06	4.29E - 08	-2.311659
MMOS	104	2.86E - 06	2.25E - 09	-3.104429
MMOX	3	8.24E - 08	3.39E - 10	-2.386025
MMSS	254	6.98E - 06	2.94E - 11	-5.375177
MMSX	2	5.49E - 08	8.87E - 12	-3.791851
MMXX	0	0	6.69E - 13	--
MNNN	1048	2.88E - 05	8.69E - 06	-0.520184

TABLE 8: Continued.

Quad	Count	f_{ijkl}	P_{ijkl}	S_{ijkl}
MNNO	1323	$3.63E - 05$	$2.93E - 05$	-0.093906
MNNS	562	$1.54E - 05$	$7.67E - 07$	-1.303999
MNNX	6	$1.65E - 07$	$1.16E - 07$	-0.153922
MNOO	4193	0.000115	$3.29E - 05$	-0.544515
MNOS	352	$9.67E - 06$	$1.72E - 06$	-0.74942
MNOX	31	$8.51E - 07$	$2.60E - 07$	-0.515747
MNSS	793	$2.18E - 05$	$2.25E - 08$	-2.985098
MNSX	5	$1.37E - 07$	$6.80E - 09$	-1.305273
MNXX	9	$2.47E - 07$	$5.13E - 10$	-2.683083
MOOO	5790	0.000159	$1.23E - 05$	-1.111435
MOOS	167	$4.59E - 06$	$9.67E - 07$	-0.676269
MOOX	171	$4.70E - 06$	$1.46E - 07$	-1.508056
MOSS	211	$5.80E - 06$	$2.53E - 08$	-2.359752
MOSX	4	$1.10E - 07$	$7.64E - 09$	-1.158007
MOXX	55	$1.51E - 06$	$5.76E - 10$	-3.418848
MSSS	62	$1.70E - 06$	$2.21E - 10$	-3.8869
MSSX	2	$5.49E - 08$	$1.00E - 10$	-2.739925
MSXX	0	0	$1.51E - 11$	--
MXXX	16	$4.39E - 07$	$7.58E - 13$	-5.763152
NNNN	5639	0.000155	0.000833	0.7304
NNNO	60175	0.001653	0.00374	0.35461
NNNS	538	$1.48E - 05$	$9.79E - 05$	0.82132
NNNX	39	$1.07E - 06$	$1.48E - 05$	1.13953
NNOO	384854	0.010571	0.006299	-0.224828
NNOS	6209	0.000171	0.00033	0.28656
NNOX	354	$9.72E - 06$	$4.98E - 05$	0.70907
NNSS	319	$8.76E - 06$	$4.32E - 06$	-0.307157
NNSX	6	$1.65E - 07$	$1.30E - 06$	0.898
NNXX	7	$1.92E - 07$	$9.83E - 08$	-0.29148
NOOO	227156	0.006239	0.004716	-0.121592
NOOS	11871	0.000326	0.00037	0.05545
NOOX	3214	$8.83E - 05$	$5.59E - 05$	-0.198618
NOSS	951	$2.61E - 05$	$9.70E - 06$	-0.430162
NOSX	13	$3.57E - 07$	$2.93E - 06$	0.9136
NOXX	66	$1.81E - 06$	$2.21E - 07$	-0.914541
NSSS	35	$9.61E - 07$	$8.47E - 08$	-1.055088
NSSX	0	0	$3.83E - 08$	--
NSXX	0	0	$5.78E - 09$	--
NXXX	3	$8.24E - 08$	$2.91E - 10$	-2.452665
Oooo	61473	0.001689	0.001324	-0.105657
OOOS	5019	0.000138	0.000139	0.00255
OOOX	9614	0.000264	$2.09E - 05$	-1.101242
OOSS	331	$9.09E - 06$	$5.45E - 06$	-0.222484
OOSX	45	$1.24E - 06$	$1.64E - 06$	0.12365
OoXX	144	$3.96E - 06$	$1.24E - 07$	-1.504034
OSSS	38	$1.04E - 06$	$9.51E - 08$	-1.040448
OSSX	3	$8.24E - 08$	$4.30E - 08$	-0.282172
OSXX	0	0	$6.49E - 09$	--
OXXX	5	$1.37E - 07$	$3.26E - 10$	-2.624158
SSSS	11	$3.02E - 07$	$6.23E - 10$	-2.686034
SSSX	0	0	$3.76E - 10$	--
SSXX	0	0	$8.50E - 11$	--
SXXX	0	0	$8.55E - 12$	--
XXXX	0	0	$3.22E - 13$	--

References

- [1] M. Masso, "All-atom four-body knowledge-based statistical potentials to distinguish native protein structures from nonnative folds," *BioMed Research International*, vol. 2017, Article ID 5760612, 17 pages, 2017.



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