RDC-ANALYTIC/RDC-PANDA License

December 13, 2012

RDC-ANALYTIC is a suite of programs for high-quality protein backbone fold determination from residual dipolar couplings (RDCs) (only two RDCs per residue are required) in one alignment medium, and a sparse set of nuclear Overhauser effect (NOE) data. RDC-PANDA (RDC-based SSE PAcking with NOEs for Structure Determination and NOE Assignment), is a suite of programs for nuclear Overhauser effect (NOE) assignment and high-resolution structure determination starting with a global fold calculated from exact solutions to the residual dipolar coupling (RDC) equations. RDC-ANALYTIC and RDC-PANDA come as a single package, and both are developed in the lab of Prof. Bruce Donald at Duke University.

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- [1] Jianyang Zeng, Jeffrey Boyles, Chittaranjan Tripathy, Lincong Wang, Anthony Yan, Pei Zhou, and Bruce Randall Donald. High-resolution protein structure determination starting with a global fold calculated from exact solutions to the RDC equations. *Journal of Biomolecular NMR*, 45(3):265–281, 2009.
- [2] Bruce R. Donald and Jeffrey Martin. Automated NMR Assignment and Protein Structure Determination using Sparse Dipolar Coupling Constraints. *Progress in Nuclear Magnetic Resonance Spectroscopy*, 55(2):101–127, 2009.
- [3] Lincong Wang, Ramgopal R. Mettu, and Bruce R. Donald. A Polynomial-Time Algorithm for De Novo Protein Backbone Structure Determination from NMR Data. Journal of Computational Biology, 13(7):1276–1288, 2006.
- [4] Lincong Wang and Bruce Randall Donald. Analysis of a Systematic Search-Based Algorithm for Determining Protein Backbone Structure from a Minimal Number of Residual Dipolar Couplings. In *Proceedings of the 2004 IEEE Computational Systems Bioinformatics Conference (CSB04)*, Stanford CA, pages 319–330, 2004.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <textyear> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

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