

Diana David-Rus- Publications

Papers, proceedings & ArXiv's *

*all publications are peer- review by journals editors, Arxiv's sponsors/editors and proceedings committee

- Diana David-Rus “ Stochastic approaches in protein synthesis-degradation-the two interacting protein case, Digest Journal of Nanomaterials and Biostructures vol 8, Issue 3, July 2013, pp 1051-1059
- Diana David-Rus “Analytical methods for solving a two dimensional stochastic problem describing a switch on/off protein-protein interaction”, ArXiv, November 2013
- Diana David-Rus “ Mathematical framework of epigenetic DNA methylation in gene body Arabidopsis”, Digest Journal of Nanomaterials and Biostructures, vol 8, Issue.1, January 2013, pp 227-237
- Diana David-Rus: “Quantitative transcriptional analysis of aging C elegans”- ArXiv, December 2012
- Diana David-Rus: “In the search of molecular signature of sarcopenia in C. Elegans”- ArXiv, December 2012
- Diana David-Rus, Swagatam Mukhopadhyay, Joel L.Lebowitz, Anirvan Sengupta “Inheritance of epigenetic chromatin silencing”, Journal of Theoretical Biology, Volume 258, Issue 1, 7 May 2009, Pages 112-120
- Diana David-Rus et al.: Elaborating the molecular signatures of age-related muscle decline. 2007.International Worm Meeting proc.
- Artoun, Ojenie; David-Rus, Diana; Emmett, Matthew; Fishman, Lou; Fital, Sandra; Hogan, ChadLim, Jisun; Lushi, Enkeleida; Marinov, Vesselin (2006) Seismic Imaging, One-Way Wave Equations Pseudodifferential Operators, Path Integrals, and all that Jazz. AIP proceedings 2006 Volume834, issue1, pp286-295
- C. S. Bohun, R. Clysdale, D. David-Rus, M. Emmett, D. Henderson, M. Hughes, CHogan, E. Lushi, B. Monthubert, P. Smith, N. K. Vaidya and R. Westbrook,

Mathematical Model of the Mechanics and Dynamics of the Tails in Dinosaur. In Proceedings of the Ninth PIMS Industrial Problem Solving Workshop, University of Calgary (May 15-19, 2005), pp. 3-16.

- Diana David-Rus et al.: A search for mid-life gene expression changes that might influence healthspan 2005 International Worm Meeting proc.
- Diana David-Rus et.al. (2005) Research report in Consortium for research in elastic wave exploration seismology (CREWES)
- Diana David-Rus et al.: Tracking the mid-life crisis of *C. elegans* East Coast 2004. Worm Meeting proc.
- Diana David-Rus et al.: Global profile of gene expression during mid-life aging 2003 International Worm Meeting proc.

Books (in libraries: Amazon.com, Barnes & Nobles)

- Diana David-Rus “Theoretical studies of aging”-Oct. 2009 VDM Publishing House Ltd-Germany
- Diana David-Rus Quantitative studies of aging using statistical mechanics and probabilistic approaches-September 2011 Proquest, Umi Publishing-US

In preparations

- Diana David-Rus, M.L. Pascu et al Stochastic approaches for understanding the impact of antibacterial drugs on bacteria population dynamics –in preparation
- Diana David-Rus, Peter J. Schmeissner, Eytan Domany, Patrick Nef, Garth Patterson, Monica Driscoll Identifying conserved mechanisms of aging in *C.elegans* using microarray data analysis. Submitted
- Diana David-Rus, JC, Chiem, Jean Macq “Understanding frail elderly social interactions using statistical physics approaches”-submitted
- Diana David-Rus “ Mathematical framework of epigenetic DNA methylation in *Arabidopsis* -Repeat Elements”, in preparation
- Diana David-Rus, Peter J. Schmeissner, Eytan Domany,Patrick Nef, Andres Kriete, Monica Driscoll. “In the search of sarcopenia signature ”, in preparation.

