

Biographical Sketch

Dennis V. Lavrov - PI

(a) Professional Preparation

St. Petersburg State University (Russia)	Biology/Zoology	Diploma, 1993
University of Michigan	Biology	Ph. D., 2001
Université de Montréal	Evolutionary Genomics	Post-doctoral fellow 2001-2004

(b) Appointments

Assistant Professor, Department of Ecology, Evolution and Organismal Biology, Iowa State University 2004 – present.

(c) Publications

(i) five most recent publications

1. Oliveira D. C. S. G., RayChoudhury, R., Lavrov, D. V., & J. H. Werren. 2008. Rapidly Evolving Mitochondrial Genome and Directional Selection in Mitochondrial Genes in the Parasitic Wasp *Nasonia* (Hymenoptera: Pteromalidae). *Molecular Biology and Evolution*. 25: 2167-2180.
2. Wang X. and D. V. Lavrov. 2008. Seventeen new complete mtDNA sequences reveal extensive mitochondrial genome evolution within the Demospongiae. *PLoS ONE*. 3(7): e2723.
3. Lavrov, D. V., Wang X., and M. Kelly. 2008. Reconstructing Ordinal Relationships in the Demospongiae Using Mitochondrial Genomic Data. *Molecular Phylogenetics and Evolution*. In press; doi:10.1016/j.ympev.2008.05.014.
4. Kayal E. and D.V. Lavrov. 2008. The mitochondrial genome of *Hydra oligactis* (Cnidaria, Hydrozoa) sheds new light on animal mtDNA evolution and cnidarian phylogeny. *Gene*. 410:177-186.
5. Lavrov, D. V. 2007. Key transitions in animal evolution: a mitochondrial DNA perspective. *Integrative and Comparative Biology*. 47:734-743.

(ii) five other BCB-related publications

1. G. Burger, Lavrov, D. V., Forget, L. and B. F. Lang, 2007. Sequencing complete mitochondrial and plastid genomes. *Nature Protocols*. 2:603-614.
2. Lavrov, D. V. and B. F. Lang, 2005. Poriferan mtDNA and animal phylogeny based on mitochondrial gene arrangements. *Systematic Biology*. 54:651-659.
3. Lavrov, D. V. and B. F. Lang, 2005. Transfer RNA gene recruitment in mitochondrial DNA. *Trends in Genetics*. 21:129-133.
4. Lavrov, D. V., Brown W. M. and J. L. Boore, 2004. Phylogenetic position of the Pentastomida and [pan]crustacean relationships. *Proceedings of the Royal Society of London Series B: Biological Sciences* 271:537-544.
5. Lavrov, D. V., Boore J. L. and W. M. Brown, 2002. MtDNA from two millipedes suggests a new mechanism for mitochondrial gene rearrangements: duplication and non-random loss. *Molecular Biology and Evolution* 19(2): 163-169.

(d) Synergistic Activities

- Freshman Honors Program Mentor, Iowa State University, 2005-2007
- Workshop Organizer: Phylogenetics Workshop at the National Animal Disease Center, Ames, IA 2006.
- Manuscript reviewer for *BMC Genomics*, *Current Genetics*, *Gene*, *Genetics*, *Genome*, *Invertebrate Biology*, *Journal of Molecular Evolution*, *Molecular Biology and Evolution*, *Molecular Phylogenetics and Evolution*, *Systematic Biology*;
- Ad hoc grant reviewer for the Systematic Biology and Biodiversity Inventory Cluster, Division of Environmental Biology, NSF.

(e) Collaborators & Other Affiliations**• Collaborators and Co-Editors (last 48 months).**

Jeffrey Boore (Joint Genome Institute), Wesley Brown (retired), Eric Bullinger (National University of Ireland), Gertraud Burger (Université de Montréal), Oleg Chaga (Northwestern University), Lise Forget (Université de Montréal), Shannon Graf (University of Maryland School of Medicine), Franz Lang (Université de Montréal), Michelle Kelly (National Institute of Water & Atmospheric Research, New Zealand), Jose Lopez (Harbor Branch Oceanographic Institution), Michael Nickel (Universität Stuttgart, Germany), Shirley Pomponi (Harbor Branch Oceanographic Institution), Zhiyong Shao (Iowa State University), Gert Wörheide (University of Göttingen, Germany).

• Graduate and Postdoctoral Advisors.

Wesley Brown, Ph.D. advisor, retired

Franz Lang, postdoctoral advisor, Université de Montréal.

• Thesis Advisor and Postgraduate-Scholar Sponsor.

Karri Haen, current Ph.D. student, Iowa State University

Xiujuan Wang, current Ph. D. student, Iowa State University

Ehsan Kayal, current Ph. D. student, Iowa State University