

CURRICULUM VITAE

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EDUCATION

- 1999-2005 *Ph.D., The Ohio State University (Columbus, OH, USA), Department of Molecular Genetics.*
- 1993-1996 *M.S, Institute of Protein Research (Puschino, Moscow Region, Russia), Department of Molecular Biology.*
- 1990-1993 *B.S. Kharkov National University (Kharkov, Ukraine), Department of Biochemistry.*

PROFESSIONAL EXPERIENCE

- 2005-present *Postdoctoral researcher with Dr. Stuart K. Kim, Stanford University, Stanford, CA.*
“Systems biology of aging in *C. elegans*.”
- 1999-2005 *Graduate Research Assistant with Dr. P. K. Herman, The Ohio State University, Columbus, OH.*
“Characterization of targets of the Ras/PKA pathway that are important for the regulation of autophagy in *Saccharomyces cerevisiae*.”
- 1997-1999 *Research Assistant, The Ohio State University, Columbus, OH.*
“Characterization of interaction of the Vps34p phosphoinositide 3-kinase with the Vps15p protein kinase in *Saccharomyces cerevisiae*.”
- 1993-1996 *Undergraduate Thesis Research with Dr. A.T. Gudkov, Training Center at the Institute of Protein Research, Pushchino, Russia*
“Characterization of structural and functional properties of the bacterial L7/L12 protein.”

PUBLICATIONS

1. Budovskaya, Y.V., Wu, K., Southworth, L.K., Jiang, M., Tedesco, P., Johnson, T.E., and Kim, S.K. (2008) An *elt-3/elt-5/elt-6* GATA transcription circuit guides aging in *C. elegans*. **Cell** 134:291-303
2. Budovskaya, Y.V., Stephan, J.S., Deminoff, S.J., and Herman, P.K. An evolutionary proteomics approach identifies substrates of the cAMP-

dependent protein kinase. (2005) **Proc. Natl. Acad. Sci USA** 102 (39): 13933-13938

3. Budovskaya, Y.V., Stephan, J.S., Reggiori, F., Klionsky, D.J., and Herman, P.K. (2004) The Ras/cAMP-dependent protein kinase signaling pathway regulates an early step of the autophagy process in *Saccharomyces cerevisiae*. **J. Biol. Chem.** 279 (20): 20663-20671
4. Budovskaya, Y.V., Hama, H., DeWald, D.B., and Herman, P.K. (2002) The C terminus of the Vps34p phosphoinositide 3-kinase is necessary and sufficient for the interaction with the Vps15p protein kinase. **J. Biol. Chem.** 277 (1): 287-294
5. Howard, S.C., Budovskaya, Y.V., Chang, Y.W., and Herman, P.K. (2002) The C-terminal domain of the largest subunit of RNA polymerase II is required for stationary phase entry and functionally interacts with the Ras/PKA signaling pathway. **J. Biol. Chem.** 277 (22): 19488-19497
6. Howard, S.C., Chang, Y.W., Budovskaya, Y.V., and Herman, P.K. (2001) The Ras/PKA signaling pathway of *Saccharomyces cerevisiae* exhibits a functional interaction with the Sin4p complex of the RNA polymerase II holoenzyme. **Genetics** 159 (1): 77-89.
7. Chang, Y.W., Howard, S.C., Budovskaya, Y.V., Rine, J., and Herman, P.K. (2001) The rye mutants identify a role for Ssn/Srb proteins of the RNA polymerase II holoenzyme during stationary phase entry in *Saccharomyces cerevisiae*. **Genetics** 157 (1): 17-26.
8. Bocharov, E.V., Gudkov, A.T., Budovskaya, E.V., and Arseniev, A.S. (1998) Conformational independence of N- and C-domains in ribosomal protein L7/L12 and in the complex with protein L10. **FEBS lett.** 423 (3): 347-350.
9. Gudkov, At., Budovskaya, E.V., and Sherstobaeva, N.M. (1995) The first 37 residues are sufficient for dimerization of ribosomal L7/L12 protein. **FEBS lett.** 367 (3): 280-282.

AWARDS

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| 2007 | Larry L. Hillblom Foundation Postdoctoral Fellowship. |
| 2005 | Dean's Postdoctoral Fellowship granted by Stanford University School of Medicine. |
| 2004 | Winner of the Scott Falkenthal Memorial Colloquium for 5 th -year student presentations, Department of Molecular Genetics, The Ohio State University. |
| 2003 | Winner of the Scott Falkenthal Memorial Colloquium for 4 th -year student presentations, Department of Molecular Genetics, The Ohio State University. |
| 1996 | International Soros Science Education Program Grand Award, Moscow, Russia. |
| 1995 | International Soros Science Education Program Grand Award, Moscow, Russia. |

ORAL PRESENTATIONS

- 2008 *Invited talk.* Molecular aging driven by the ELT-3/ELT-5/ELT-6 transcriptional circuit in *C. elegans*. **Molecular Genetics of Aging**. Cold Spring Harbor, NY, September 24-28, 2008
- 2008 *Invited talk.* An *elt-3/elt-5/elt-6* GATA transcription circuit guides aging in *Caenorhabditis elegans*. **Summer training course in Experimental Aging Research**. Seattle, WA, June 14-19, 2008
- 2007 *Invited talk.* Molecular aging driven by the ELT-3 GATA transcription circuit in *C. elegans*. **16th International C. elegans Meeting**, Los Angeles, CA, June 27 – July 1, 2007.
- 2007 *Invited talk.* An *elt-3* GATA transcription circuit guides aging in *C. elegans*. **Aging Symposium**, Stanford, CA, September 24, 2007.
- 2006 *Invited talk.* Molecular Aging driven by the *elt-3* GATA transcription circuit in *C. elegans*. **Molecular Genetics of Aging**. Cold Spring Harbor, NY, October 4 – 8, 2006.
- 2003 *Fourth year graduate school talk.* Evolutionary genomics, a method for identifying substrates of the cAMP-dependent protein kinase, PKA, in *Saccharomyces cerevisiae*. **The Ohio State University, U. S. A.**
- 2002 *Candidacy exam.* ERCs cause aging by titrating away transcriptional machinery from genomic DNA. **The Ohio State University, U. S. A.**
- 2002 *Third year graduate school talk.* Characterization of the domains important for the association of the Vps34p Phosphoinositide 3-Kinase with the Vps15p Protein Kinase. **The Ohio State University, U. S. A.**
- 1995 *Undergraduate Thesis talk.* Structure and function of wild type and V38C mutant of ribosomal L7/L12 protein from *Escherichia coli*. **Institute of Protein Research** Pushchino, Moscow region, Russia.

POSTER PRESENTATIONS

- 2007 *An *elt-3* transcriptional circuit for aging in *C.elegans*.* **Buck Institute Symposium “Nutrient Signaling and Aging”**, Novato, CA, November 12-14th, 2007.
- 2005 *Poster presentation.* Identification of Molecular Markers for Aging in *C.elegans*. **15th International C. elegans Meeting**, Los Angeles, CA June 25-29, 2005.
- 2004 Evolutionary proteomics, a method for identifying substrates of the cAMP-dependent protein kinase, PKA, in *Saccharomyces cerevisiae*. **Yeast Genetics and Molecular Biology Meeting**, Seattle, WA July 27 August 1, 2004.
- 2002 Characterization of the association between the Vps34p phosphoinositide 3-kinase and the Vps15p protein kinase. **The National Yeast Genetics/Molecular Biology Meeting**. Madison, WI, U. S. A.
- 2002 Ras/PKA signaling may coordinate gene expression with nutrient

availability by regulating the function of proteins associated with the Rpb1p CTD. **The National Yeast Genetics/Molecular Biology Meeting.** Madison, WI, U. S. A.

- 2000 Characterization of the interaction between the Vpa15p protein kinase and the Vps34p phosphatidylinositol 3-kinase. **The National Yeast Genetics/Molecular Biology Meeting.** Seattle, WA, U.S.A.
- 2000 A role for Ras signaling in the control of RNA polymerase II transcription. **The National Yeast Genetics/Molecular Biology Meeting.** Seattle, WA, U.S.A.
- 1995 Structural and functional properties of the L7/L12 protein with mutation Val37-Cys37. **An International Conference on the Structure and Function of the Ribosome.** May 20-25, 1995, Victoria Conference Center, Victoria, B.C., Canada.

TEACHING AND MENTORING EXPERIENCE

- 1999-2003 *Graduate Teaching Assistant, The Ohio State University, Columbus, OH*
- Taught recitation sections for molecular genetics and cell biology undergraduate and graduate level classes
 - Conducted labs for molecular genetics undergraduate course
 - Designed quizzes and end of the quarter lab exams for molecular genetics undergraduate course
- 1999-2004 *Mentored 3 undergraduate, 4 graduate rotations, and 1 graduate student. The Ohio State University, Columbus, OH*
- 2005-present *Mentored 2 rotations students and 2 graduate students. Stanford University, Stanford, CA.*

REFERECES:

Paul K. Herman, Ph.D.

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The Ohio State University
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484 West Twelfth Avenue
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