

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME Vidadi M. Yusibov	POSITION TITLE Scientific Director
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EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
St. Petersburg University, St. Petersburg, Russia	B.A.	1982	Biology
St. Petersburg University, St. Petersburg, Russia	M.S.	1984	Plant Biochemistry
Academy of Sciences, Moscow, Russia	Ph.D.	1989	Molecular Biology

Professional Experience:

2001-Present Scientific Director, Fraunhofer USA Center for Molecular Biotechnology, Newark, DE

1997-2001 Assistant Professor, Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA

1995-1997 Research Scientist, Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA

1992-1995 Post-Doctoral Research Associate, Department of Botany and Plant Pathology, Purdue University, West Lafayette, Indiana (with Dr. Sue Loesch-Fries)

1991-1992 Post-Doctoral Research Associate, Department of Biology, Purdue University, West Lafayette, Indiana (with Dr. Stanton Gelvin)

1989-1991 Scientist, Laboratory of Plant Molecular Genetics, Institute of Molecular Genetics, Moscow, Russia

Professional Affiliations:

1993- American Society for Virology.

2001- The American Phytopathological Society

Selected Publications:

1. Shailaja Rabindran, Valentina Mett, Oleg Fedorkin, Fleysh, N., **Yusibov, V.**, 2002. Role of 3' non-coding region of AIMV RNA4 in encapsidation of TMV genome (in preparation).
2. Yusibov, V., Hooper, D. C., Spitsin, S. V., Fleysh, N., Kean, R.B., Mikheeva, T., Deka, D., Karasev, A., Cox, S., Randall, J., Koprowski, H. 2002. Expression in plants and immunogenicity of plant virus-based experimental rabies vaccine. *Vaccine*. **20**: 3155-3164.
3. Nina Fleysh, Deepali Deka, Hilary Koprowski, **Vidadi Yusibov**, 2001. Characterization of AIMV pathogenesis in *Glycine max* plants. *Phytopathology* 91:941-947.
4. Koprowski, H. and **Yusibov, V.** 2000. The green revolution: plants as heterologous expression vectors. *Vaccine* 19:2735-2741.
5. Helene Belanger, Nina Fleysh, Shannon Cox, Greg Bartman, Deka Deepali, Michel Trudel, Hilary Koprowski, **Vidadi Yusibov**, 2000. Human Respiratory Syncytial Virus Vaccine Antigen produced in plants. *The FASEB journal* 78:1213-1217.

6. Spitsin, S., Steplewski, K., Flyesh, N., Belanger, H., Michieva, T., Shivprasad, S., Dawson, W., Koprowski, H. And **Yusibov, V.**, 1999. The coat protein alfalfa mosaic virus supports the long distance movement of TMV deficient in production of TMV coat protein. *Proc. Natl. Acad. Sci. USA* 96, 2549-2553.
7. Kapusta J, Modelska A, Figlerowicz M, Pniewski T, Letellier M, Lisowa O, **Yusibov V**, Koprowski H, Plucienniczak A, Legocki A., 1999. A Plant Derived Edible Vaccine Against Hepatitis B Virus. *The FASEB Journal* 13, 1796-1799.
8. Thorsten Verch, **Vidadi Yusibov** And Hilary Koprowski, 1998. Expression and assembly of a full-length monoclonal antibody in plants using a plant virus vector. *J. Immunological Methods* 220, 69-75.
9. **Yusibov V. M.**, And Koprowski H., 1998. Plants as a vector for biomedical products (review article.). *J. Med. Food* 1, 5-12
10. Swanson, M.M., Ansel-Mckinney, P., Houser-Scott, F., **Yusibov, V.M.** and Loesch-Fries, L.S., Gehrke, L., 1998. Viral coat protein peptides with limited sequence homology bind similar domains of alfalfa mosaic virus and tobacco streak virus RNAs. *J. Virology* 72, 3227-3234.
11. **Yusibov, V.M.** And Loesch-Fries, L.S., 1998. Functional significance of three basic N-terminal amino acids of alfalfa mosaic virus coat protein. *Virology* 242, 1-5.
12. Anna Modelska, Bernard Dietzschold, Nina Fleysch, Zhen Fang Fu, Klaudia Steplewski, D. Craig Hooper, Hilary Koprowski, And **Vidadi Yusibov**, 1998. Immunization against rabies with plant-derived antigen. *Proc. Natl. Acad. Sci. USA* 95,2481-2485.
13. Kumar, A., Reddy V., **Yusibov, V.M.**, Chipmann P., Hatta Y., Fita I., Fukuyama K., Rossmann M., Loesch-Fries S., Johnson, J.E., 1997. The structure of alfalfa mosaic virus assembled as a T=1 icosahedral particle at 4.0 A resolution. *J. Virol.* 71, 7911-7916.
14. **Yusibov, V.**, Modelska, A., Steplewski, K., Agadjanyan, M., Weiner, D., Hooper, C., And Koprowski, H. 1997. Antigens produced in plants by infection with chimeric plant viruses immunize against rabies virus and HIV-1. *Proc. Natl. Acad. Sci. USA* 94, 5784-5788.
15. **Yusibov, V.M.**, Kumar, A., North, A., Johnson, J.E., And Loesch-Fries, L.S., 1996. Purification, characterization, crystallization and preliminary X-ray analysis of *E. coli* expressed alfalfa mosaic virus coat protein. *J. Gen. Virol.*, 77, 567-573.
16. **Yusibov, V.M.** and Loesch-Fries, L.S., 1995. High affinity RNA binding domains of alfalfa mosaic virus coat protein are not required for coat protein mediated resistance. *Proc. Natl. Acad. Sci. USA*, 92, 8980-84.