

***CURRICULUM VITAE***  
**Thomas J. Silhavy**

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***Birthdate:*** January 13, 1948

***Birthplace:*** Wauseon, Ohio

***Education:*** Ferris State College, Big Rapids, MI  
B.S., 1971, Pharmacy

Harvard University, Cambridge, MA  
A.M., 1974, Biochemistry

Harvard University, Cambridge, MA  
Ph.D., 1975, Biochemistry

***Honors:***

1971	Ferris State College, <i>Summa cum laude</i>
1975-1977	Jane Coffin Childs Foundation Fellow
1978-1979	Medical Foundation Research Fellow
1982	Litton Advanced Technology Achievement Award
1982	Doctor of Sciences, <i>honoris causa</i> , Ferris State College
1990	Burroughs-Wellcome Visiting Professorship Award, American Society for Microbiology, University of Florida
1993	President's Award for Distinguished Teaching-Princeton University
1994	Fellow of the American Academy for Microbiology
1998	Burroughs-Wellcome Visiting Professorship Award, American Society for Microbiology, Oakland University
1999	NIGMS MERIT Award
2002	Graduate Microbiology Teaching Award – American Society for Microbiology
2003	Graduate Advising Award, Princeton University
2004	Fellow of the American Association for the Advancement of Science
2005	Fellow of the American Academy of Arts and Sciences
2005	Elected to the National Academy of Sciences
2008	The Novitski Prize for Creativity, Genetics Society of America
2008	Elected to the European Molecular Biology Organization
2012	Elected Visiting Fellow Commoner, Trinity College, Cambridge University
2016	ASM Lifetime Achievement Award
2018	Doctor of Sciences, <i>honoris causa</i> , University of Guelph

***Academic Positions:***

1971-1974	Graduate Research Assistant with Winfried Boos Harvard Medical School, Boston, MA
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1974-1975	Research Assistant Institut Pasteur, Paris, France
1975	Instructor University of Konstanz, West Germany
1975-1977	Jane Coffin Childs Foundation Fellow with Jonathan Beckwith Harvard Medical School, Boston, MA
1978-1979	Instructor Department of Microbiology and Molecular Genetics Harvard Medical School, Boston, MA
1979-1981	Head, Genetics of Membrane Biogenesis Section Cancer Biology Program, NCI-Frederick Cancer Research Facility, Frederick, MD
1980-1984	Adjunct Associate Professor Department of Biological Sciences University of Maryland, Baltimore County
1981-1984	Director, Laboratory of Genetics and Recombinant DNA NCI-Frederick Cancer Research Facility, Frederick, MD
1984-1986	Professor of Molecular Biology, Princeton University, Princeton, NJ
1986-present	Endowed Professorship, Warner-Lambert Parke-Davis Professor of Molecular Biology, Princeton University

***Professional Activities:***

1981-1985	Instructor, Advanced Bacterial Genetics, Cold Spring Harbor Laboratory
1985-1989	Member - NIH Microbial Physiology and Genetics Study Section
1985-present	Member - Life Sciences Research Foundation Peer Review Committee
1986-1990	Trustee - Board of Trustees, Cold Spring Harbor Laboratory
1987-2003	Program Director, Departmental NIH Predoctoral Training Grant
1988-1990	Member - Editorial Board, Journal of Bacteriology
1989-1994	Member - Editorial Board, Journal of Biological Chemistry
1989-present	Co-Director, Life Sciences Research Foundation
1989-2003	Director of Graduate Studies, Molecular Biology Department, Princeton University
1990-1993	Organizer - Bacterial Genetics Course, International Centre for Genetic Engineering and Biotechnology, Trieste, Italy
1991	Division Chair-elect, Genetics and Molecular Biology, American Society for Microbiology
1992	Division Chair, Genetics and Molecular Biology, American Soc. for Microbiology
1993-1998	Member - NIH Genetic Basis of Disease Study Section
1994-1998	Chair, Books Committee, American Society for Microbiology
1996	Chair, Bacterial Cell Surfaces, Gordon Conference
1997-present	Editorial Board, Current Opinion in Microbiology
1998-2010	Editor, Journal of Bacteriology
2000-2002	Organizer, Molecular Genetics of Bacteria and Phages Meeting, Cold Spring Harbor, NY
2001-2015	Section Head, Faculty of 1000
2001-2003	Executive Editorial Board, EcoSal

2006-present	Editorial Board, Proceedings of the National Academy of Sciences
2009-2012	Committee on Election to Fellowship, American Academy of Microbiology
2010-2012	Board of Directors, The Genetics Society of America
2010-2013	Section Chair, Microbial Biology, National Academy of Sciences
2011-present	Editor-in-Chief, Journal of Bacteriology
2013-2016	Member, Institutional Biosafety Committee, Princeton University
2013-present	Member, Scientific Advisory Board, Genentech, Inc.
2015-present	Alternate to the Chair, Institutional Biosafety Committee, Princeton University
2016-2019	Class IV Secretary, National Academy of Sciences
2017-present	Chair, Scientific Advisory Board, Achaogen, Inc.
2017-present	Graduate School Advisor for Molecular Biology Majors, Princeton University

**Publications:**

1. Nash, E.G., E.J. Nienhouse, T.J. Silhavy, D.E. Humbert and M.J. Mish. 1970. Aromatic nitro musk synthesis. *J Chem Educ.* 47:705-706.
2. Holcomb, G.N. and T.J. Silhavy. 1972. Synthesis of 1-(p-iodobenzene-sulfonyl)-3, 5-di-n-propyl isocyanurate. *J Org Chem.* 37:3357-3358.
3. Holcomb, G.N., L.A. Klemm, T.J. Silhavy and R.E. Counsell. 1973. Synthesis and pharmacological activity of 1-(arylsulfonyl)-3, 5-dialkyl-s-triazine-2, 4,6-(1H, 3H, 5H)-triones. *J Pharm Sci.* 62:1379-1381.
4. Silhavy, T.J. and W. Boos. 1973. A convenient synthesis of (2R)-glyceryl- $\beta$ -D-galacto-pyranoside: A substrate for  $\beta$ -galactosidase, the lactose repressor, the galactose-binding protein, and the  $\beta$ -methylgalactoside transport system. *J Biol Chem.* 248:6571-6574.
5. McGowen, E.B., T.J. Silhavy and W. Boos. 1974. Involvement of a tryptophan residue in the binding site of *Escherichia coli* galactose-binding protein. *Biochemistry.* 13:993-999.
6. Silhavy, T.J. and W. Boos. 1974. Selection procedure for mutants defective in the  $\beta$ -methylgalactoside transport system of *Escherichia coli* utilizing the compound (2R)-glyceryl- $\beta$ -D-galactopyranoside. *J Bacteriol.* 120: 424-432. PMID: PMC245779.
7. Silhavy, T.J., W. Boos and H.M. Kalckar. 1974. The role of the *Escherichia coli* galactose-binding protein in galactose transport and chemotaxis. In: *Biochemistry of Sensory Functions*, ed. L. Jaenicke. Springer-Verlag, Heidelberg, Germany, pp.165-205.
8. Johnson, W.C., T.J. Silhavy and W. Boos. 1975. Two-dimensional polyacrylamide gel electrophoresis of envelope proteins of *Escherichia coli*. *Appl Microbiol.* 29:405-413. PMID: PMC186988.
9. Silhavy, T.J. and W. Boos. 1975. The hidden ligand of the galactose-binding protein. *Eur J Biochem.* 54:163-167.
10. Silhavy, T.J., S. Szmelcman, W. Boos and M. Schwartz. 1975. On the significance of retention of ligand by protein. *Proc Natl Acad Sci, USA.* 72:2120-2124. PMID: PMC432708.
11. Szmelcman, S.M., M. Schwartz, T.J. Silhavy and W. Boos. 1976. Maltose transport in *Escherichia coli* K-12. A comparison of transport kinetics in wild-type and  $\lambda$  resistant mutants with the dissociation constants of the maltose-binding protein as measured by fluorescence quenching. *Eur J Biochem.* 65:13-19.

12. Silhavy, T.J., I. Hartig-Beecken and W. Boos. 1976. Periplasmic protein related to the sn-glycerol-3-phosphate transport system of *Escherichia coli*. *J Bacteriol.* 126:951-958. PMID: PMC233233.
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14. Casadaban, M.J., T.J. Silhavy, M. Berman, H.A. Shuman, A.V. Sarthy and J.R. Beckwith. 1977. Construction and use of gene fusions directed by bacteriophage Mu insertions. In: *DNA Insertion Elements, Plasmids and Episomes*, eds. A.I. Bukhari, J. Shapiro and S. Adhya. Cold Spring Harbor Laboratory, NY, pp. 531-535.
15. Silhavy, T.J., H.A. Shuman, J. Beckwith and M. Schwartz. 1977. Use of gene fusions to study outer membrane protein localization in *Escherichia coli*. *Proc Natl Acad Sci, USA.* 74:5411-5415. PMID: MC431741.
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17. Debarbouille, M., H.A. Shuman, T.J. Silhavy and M. Schwartz. 1979. Dominant constitutive mutations in *maltT*, the positive regulator gene of the maltose regulon in *Escherichia coli*. *J Mol Biol.* 124:359-371.
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23. Argast, M., D. Ludtke, T.J. Silhavy and W. Boos. 1979. A second transport system for sn-glycerol-3-phosphate in *Escherichia coli*. *J Bacteriol.* 136:1070-1083. PMID: PMC218543.
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57. Silhavy, T.J., S.A. Benson and S.D. Emr. 1983. Mechanisms of protein localization. *Microbiol Rev.* Sep;47(3):313-344. PMID: PMC281579.
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**Patents:**

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