

CURRICULUM VITAE
Samuel H. Wilson

Place of Birth: U.S.A.

Married - 2 children (grown)

Education:

1961	A.B. (Chemistry)	University of Denver
1968	M.D.	Harvard University
1970	Postdoctoral Fellowship	NIH

Professional Employment:

1996 - Present	Deputy Director, National Institute of Environmental Health Sciences (NIEHS), NIH, & National Toxicology Program; Chief, DNA Repair and Nucleic Acid Enzymology Section, Laboratory of Structural Biology, NIEHS, NIH
1998 - 2000	Interim Associate Director for Management, NIEHS, NIH
1991 - 1996	Founding Director, Sealy Center for Molecular Science, The University of Texas Medical Branch (UTMB) and Director, Centennial Center for Environmental Toxicology, UTMB
1986 - 1992	Chief, Nucleic Acid Enzymology Section, Laboratory of Biochemistry, National Cancer Institute (NCI), NIH
1970 - 1992	Research Scientist, Laboratory of Biochemistry, NCI, NIH
1968 - 1970	Postdoctoral Fellow (Research Associate) Laboratory of Biochemical Genetics (Advisor - Marshall Nirenberg), National Heart Institute, NIH
1967 - 1968	Postdoctoral Fellow, Department of Biochemistry (Advisor- Mahlon Hoagland), Dartmouth Medical School
1964 - 1966	Student Research Associate, Department of Bacteriology and Immunology (Advisor - Mahlon Hoagland), Harvard Medical School
1961 - 1962	Graduate Fellow, Department of Chemistry (Advisors - J.J. Schmidt - Collerus and J.A. Krimmel), Denver Research Institute, Univ. of Denver

Honors, Awards, & Honorary Lectures: (since 1996)

1994 - 1996	Mary G. Jones Distinguished Chair in Environmental Toxicology, UTMB
1996	Corpus Origoza Lecturer, Baylor College of Medicine, Houston, TX
1996	Keynote Speaker, Seno Memorial Symposium, Yokohama, Japan
1997	H.M. Parker Lecturer, Pacific Northwest Natl. Lab, DOE, Richland, WA
1997	NIH Merit Award (Environmental Genome Project)
1998	Keynote Speaker, AACR Special Meeting, Sanibel Island, FL
1998	NIH Merit Award (Children's Environmental Health Centers)
1999	Keynote Speaker, International Conference on Radiation Damage to DNA: Lesions, Mechanisms, and Consequences, Chapel Hill, NC
1999	NIH Merit Award (ARCH Program)
1999	NIH Directors' Award (Children's Environmental Health Initiative)
2000	NIH Directors' Award (ARCH Program)
2000	Keynote Speaker, Toxicology Gordon Research Conference
2001	Keynote Speaker, 3 rd Annual Midwest DNA Repair Symposium

2001	Keynote Speaker, Genetic Toxicology Gordon Research Conference
2001	Keynote Speaker, 11 th Annual HHMI Environmental Conference
2001	Keynote Speaker, Mouse Genomics Consortium Workshop
2001	NIH Merit Award (Toxicogenomics)
2002	Keynote Speaker, New York Medical College, Annual Research Forum
2002	NIH Director's Award (Toxicogenomics)
2002	21 st William B. Kinter Lecturer, Mount Desert Island Biological Laboratory Symposium
2002	Keynote Speaker, Mutagenesis Gordon Research Conference
2003	Keynote Speaker, ACC-LRI First Annual Science Meeting
2003	Keynote Speaker, Toxicogenomics Gordon Research Conference
2003	Keynote Speaker, EU-US Conference on Molecular Signature of DNA Damage Induced Stress Responses
2003	NIEHS "Scientist of the Year 2003" and Science Day Speaker

Military Service:

1968-1992	Commissioned Corp US Public Health Service Medical Director (06) Retired – January 1992
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Teaching:

1999	Lecturer, Jerusalem Spring School, The Hebrew University of Jerusalem
1991 - 1996	Professor, Dept. of Human Biological Chemistry & Genetics (HBC&G), UTMB
1994 - 1996	Lecturer, Gene Therapy in Clinical Investigation, GCRC, UTMB
1993 - 1996	Lecturer, Cell and Molecular Biology Course, HBC&G, UTMB
1992 - 1996	Lecturer, Genetics Course, Dept. of Microbiology, UTMB
1975 - 1978	Lecturer, Dept. of Biochemistry, George Washington University
1971 - 1991	Instructor, Biochemistry Faculty, (DNA enzymes and binding proteins), Foundation for Advanced Education in the Sciences, Inc., NIH

Graduate Student Advisor and Thesis Research Supervisor:

Degree in 1978	W. Zellmer, Dept. of Zoology, Auburn University
Degree in 1978	E.W. Bohn, Dept. of Chemistry, American University
Degree in 1985	J. Swack, Dept. of Biochemistry, George Washington University
Degree in 1997	T. Molina, Dept. of HBC&G, UTMB

Member Ph.D. Thesis Defense or Advisory Committee:

2002, T. Fisher, Dept. of Microbiology and Immunology, Albert Einstein College of Medicine;
 2001, L. Chen, Dept. of Molecular Medicine, Institute of Biotechnology, University of Texas Health Science Center (San Antonio); 2000, B.-Q. Li, Dept. of Biochemistry and Molecular Biology, University of Miami; 1997, A.G. McNees, Dept. of HBC&G, UTMB; 1997, X.-Q. Zhou, Department of Cellular and Structural Biology, University of Texas Health Science Center (San Antonio); 1996, Q. Xie, Dept. of HBC&G, UTMB; 1996, B. Ponnaiya, Dept. of HBC&G, UTMB; 1996, T.K. Varma, Dept. of HBC&G, UTMB; 1995, S. F. Anderson, Dept. of Molecular

Biophysics and Biochemistry, Yale University; 1995, N. Deane, Dept. of Microbiology, UTMB; 1992, R. Anderson, Dept. of Biochemistry, Baylor College of Medicine; 1991, M. Delahunty, Dept. of Chemistry, Univ. of Maryland Balt. Cnty.; 1987, H. Al-Khatib, Dept. of Biochemistry, Georgetown University; 1986, B. Merrill, Dept. of Molecular Biophysics and Biochemistry, Yale University; 1985, A. Lambrianidou, Dept. of Biochemistry, Georgetown University; 1984, W. Albert, Institute of Biochemistry, University of Wurzburg, FRG; 1980, M. Vinocour, Dept. of Biochemistry, University of Arizona.

Postdoctoral Fellows and Research Associates:

2004 – present, N. Palma; 2003 - present, Y. Liu; 2003-present, K. Asagoshi; 2002-2003, C. Cistulli; 2002-present, E. Braithwaite; 1999-2000, D. Kolpachchikov; 1999-2000, G. Belova; 1998-2003, M. Ghosh; 1997-2000, A. Robertson; 1998-1999, J. Krahn; 1997-2001, B. Vande Berg; 1993-2002, R. Sobol; 1994-2002, J. Chyan; 1992-1996, R. Singhal; 1992-1993, R. Kim; 1992-1999, 2001-2002, D. Srivastava; 1992-1999, X.-P. Yang; 1991-1996, F. He; 1991-1996, K.-H. Chen; 1991-1993, H. Idriss; 1991-1996, S. Narayan; 1991-1997, R. Prasad; 1991-1993, R. Goel; 1990-1995, M. Jaju; 1990-1997, W. Beard; 1989-1991, J. Casas-Finet; 1989-1991, M. Kim; 1989-1991, A. Kumar; 1989-1991, E. Englander; 1988-1990, C. Majumdar; 1987-1990, P. Kedar; 1987-1991, J. Abbotts; 1986-1991, S. Widen; 1985-1987, P. Kumar; 1984-1987, D. Sen Gupta; 1984-1987, F. Cobianchi; 1982-1984, A. Hazra; 1981-1984, E. Karawya; 1980- 1983, S. Planck; 1980-1984, P. Becerra; 1979-1984, S. Detera; 1979-1984, K. Tanabe; 1978- 1979, T. Marshall; 1977-1980, Y.-C. Chen; 1975-1976, M. Sivarajan; 1972-1975, A. Matsukage.

Sabbatical or Senior Research Associates:

2002-present, V. Poltoratsky; 2001-present, V. Batra; 2000-2002, S.-J. Kim; 1997-present, W. Beard; 1997-present, J. Horton; 1997-present, R. Prasad; 1999-present, P. Kedar; 2001, H. Idriss; 1997, A. Slesarev; 1994-1995, 1999-2000, 2001-2002, O. Lavrik; 1995-1996, and 2002, P. Strauss; 1990, F. Cobianchi; 1985, K. Tanabe; 1984 and 1988, A. Matsukage; 1984-1990, B.Z. Zmudzka.

Sabbatical or other Administrative Associates:

1997, G. Lemasters; 2000-2001, C. Miller; 2001-2002, M. Yudell (graduate student)

Reference Volumes Editor or Co-Editor:

The Eukaryotic Nucleus: Molecular Biochemistry and Macromolecular Assemblies, Vol. 1-2.

Strauss, P.R., Wilson, S.H. (eds.), The Telford Press/CRC Press, 1990.

Cancer Biology and Biosynthesis. Wilson, S.H. (ed.), CRC Press, 1991.

Base Excision Repair, Progress in Nucleic Acids Research and Molecular Biology. Mitra, S., McCullough, A., Lloyd, R.S., and Wilson, S.H. (eds.), Academic Press, 2001.

Biomarkers of Environmentally Associated Disease: Technologies, Concepts, and Perspectives. Wilson, S.H., and Suk, W. (eds.), CRC Press, 2002.

National Peer-Review Activities: (excluding journal reviews, since 1996)

2003 - present	Associate Editor, <i>DNA Repair</i>
1999 - present	Editorial Board, <i>Annual Review of Medicine</i>
1997 - present	Editorial Board, <i>Environmental Health Perspectives</i>
2001 - 2003	Editorial Board, <i>DNA Repair</i>

1996 - 2002 Editorial Board, *The Journal of Biological Chemistry*
 1992 - 1996 Biochemistry Study Section, DRG, NIH
 1992 - 1996 Special Government Employee (Consultant), DHHS

National Committees and Other Activities: (since 2000)

2003 - 2007 Director (2003), Scientific Advisory Board (2004-2007), Radiation Effects Research Foundation (Cooperative Japan-United States Research Organization)
 2003 - 2005 Program Committee, 9th International Conference on Environmental Mutagens, San Francisco, CA
 2004 Organizing Committee NAS/IOM EHSRT Workshop, Global Environmental Health in the 21st Century
 2004 Co-Chair, 2nd Biannual Japan-US/US-Japan DNA Repair Meeting
 2003 Co-Chair, Biannual US-EU DNA Repair Meeting
 2002 - present Member (Liaison), NAS/IOM, Board on Health Sciences Policy
 2002 Scientific Advisory Board – Program on Structural and Cell Biology of DNA Repair, LBNL, Berkeley, CA
 2002 Scientific Advisory Committee (*ad hoc*), CIIT, RTP, NC
 2002 Co-Chair, Marshall Nirenberg Symposium
 2002 Co-Chair, 1st Biannual Japan-US/US-Japan DNA Repair Meeting
 2001 Organizing Committee NAS/IOM EHSRT Workshop, Environmental Hazards in Premature Birth
 2000 - 2001 Organizing Committee NAS/IOM EHSRT Workshop, Cancer and the Environment
 2000 - 2001 Member, ASBMB Council
 2000 Co-organizer, International Conference on Arctic Development, Pollution, and Biomarkers of Human Health in Conjunction with the Arctic Monitoring and Assessment Programme, Anchorage, AK
 2000 Organizing Committee NAS/IOM EHSRT Workshop, Rebuilding the Unity of Health and the Environment
 1999 - 2003 Member, NCEH/CDC National Advisory Committee
 1998 - present Member, NAS/IOM Roundtable on Environmental Health Sciences, Research, and Medicine (EHSRT)
 1997 - 2001 Vice-Chair and Chair, respectively, Mammalian DNA Repair Gordon Research Conference, 1999 and 2001
 1997 - 2000 Co-organizer Base Excision Repair 2000 Workshop, Galveston, TX
 1994 - 2000 Scientific Advisory Panel - The Flinn Foundation, Phoenix, AZ

Invited Scientific Presentations (since 1996):

Environmental Mutagen Society, Victoria, B.C., Canada, March 1996 **Plenary Lect.**
 Processing of DNA Damage, The Netherlands, April 1996, Speaker
 Beckman Symposium, City of Hope Medical Center, Pasadena, CA, April 1996, **Plenary Lect.**
 Japanese Society of Biochemistry, Nagoya, Japan, May 1996, **Plenary Lect.**
 Gordon Research Conference, New Hampshire, June 1996, Speaker
 Case Western Reserve University School of Medicine, Cleveland, OH, October 1996

University of Texas Southwestern Medical School, Dallas, TX, November 1996
Indiana University School of Medicine, Indianapolis, IN, January 1997
Gordon Research Conference, Ventura, CA, February 1997, Speaker
University of Cincinnati Center for Environmental Genetics, Cincinnati, OH, February 1997
Becton Dickinson 100th Anniversary Symposium, Baltimore, MD, March 1997, **Plenary Lect.**
Chemical Industry Institute of Technology, RTP, NC, March 1997
Environmental Mutagen Society Annual Meeting, Minneapolis, MN, April 1997, Speaker
Duke University, Durham, NC, May, 1997
Gordon Research Conference, New London, NH, June 1997, Speaker
Nelson Institute of Environmental Medicine, New York Univ., NY, September 1997
North Carolina State University, Raleigh, NC, October 1997
NIH, IATAP Symposium, Bethesda, MD, November 1997
University of North Carolina, Chapel Hill, NC, March 1998
Gordon Research Conference, Plymouth, NH, June 1998, Speaker
Aspen Cancer Conference, Aspen, CO, July 1998
NIH Research Festival, NIH, Bethesda, MD, October 1998
NIH, IATAP Symposium, Bethesda, MD, October 1998
New York University, NY, November 1998
Barton Creek Conference, Austin, TX, December 1998
Gordon Research Conference, Ventura, CA, February 1999, **Vice Chair**, Speaker
ACS, Schilling Research Conference, Santa Cruz, CA, March 1999
Thomas Jefferson University, Philadelphia, PA, April 1999
Health Professions Forum, Durham, NC, April 1999
Eighth Jerusalem Spring School in Life Sciences Symposium, Jerusalem, Israel, May 1999
Aspen Cancer Conference, Aspen, CO, July 1999
Gordon Research Conference, Newport, RI, July 1999, Speaker
Gordon Research Conference, Oxford, UK, August 1999, Session Chair, Speaker
DNA Damage and Repair, Annual Symposium, Wayne State University, Detroit, MI, October 1999
NIH, IATAP Symposium, Bethesda, MD, November 1999
ASM, DNA Repair and Mutagenesis Conference, Hilton Head, SC, November 1999, Session Chair, Speaker
AACR Special Conference on DNA Repair, San Diego, CA, January 2000
Gordon Research Conference, Ventura, CA, March 2000, Session Chair, Speaker
BER Workshop 2000, Galveston, TX, March, 2000, **Co-Chair**, Session Chair, Speaker
Curriculum in Toxicology, University of North Carolina Graduate Program, Chapel Hill, NC, March, 2000
65th Cold Spring Harbor Symposium on Quantitative Biology, Cold Spring Harbor, NY, June 2000, Session Chair, Speaker
Gordon Research Conference, Oxford, UK, August 2000, Session Chair, Speaker
IATAP Symposium, NIH, Bethesda, MD, October 2000
Gordon Research Conference, Ventura, CA, January 2001, **Chair** and Session Chair
University of North Carolina, Chapel Hill, NC, March 2001
University of Rochester, Rochester, NY, April 2001
University of North Carolina, Chapel Hill, NC, September 2001
University of Southern California, Los Angeles, CA, November 2001

Albert Einstein College of Medicine, New York, NY, February 2002
 Gordon Research Conference, Ventura, CA, March 2002, Session Chair, Speaker
 SUNY-Stony Brook, Long Island, NY, April 2002
 American Chemical Society 223rd National Meeting, Orlando, FL, April 2002
 University of Pittsburgh, Pittsburgh, PA, May 2002
 32nd Annual Meeting of European Environmental Mutagen Society, Warsaw, Poland, September 2002
 University of California, San Diego, CA, October 2002
 55th Annual Symposium on Fundamental Cancer Research, M.D. Anderson Cancer Center, Houston, TX, October 2002
 Gordon Research Conference, Ventura, CA, January 2003, Session Chair, Speaker
 Annual Meeting EMS, Miami, FL, May 2003, **Symposium Co-chair**
 University of Nebraska, Omaha, NE, May 2003
 Gordon Research Conference, Newport, RI, June 2003, Speaker
 CMGCC Symposium, Boston, MA, June 2003, Speaker
 LRI Annual Science Meeting, Herndon, VA, June 2003
 Gordon Research Conference, Oxford, UK, August 2003, Session Chair, Speaker
 First US-EU DNA Repair Meeting, Leesburg, VA, October 2003, Session Chair, Speaker
 Sixth Annual Jack B. Little Symposium, Boston, MA, October 2003, Speaker
 Forbeck Forum, Hilton Head Is., SC, November 2003, Speaker
 American Chemical Society National Meeting, Philadelphia, PA, August 25, 2004, Speaker
 Dale W. Mosbaugh Symposium on Genetic Toxicology and DNA Repair, Corvallis, OR, October 11, 2004, Speaker

Extramural Grant Support: (since 1996)

1993	Robert A. Welch Foundation "Nucleotidyltransferase Mechanism for DNA Polymerase," Grant #: H-1265, Principal Investigator (Resigned 9-1-96)
1993	NIH "How Does DNA Alkylation Regulate Human Repair Genes?" Grant #: RO1 ES06492, Principal Investigator (Resigned 9-1-96)
1994	NIH "Mechanism of Human DNA Repair Enzymes: DNA Polymerase β ," Grant #: RO1 ES06839, Principal Investigator (Resigned 9-1-96)
1994	Lucille P. Markey Charitable Trust "Program in Structural Biology," Principal Investigator (Resigned 9-1-96)
1994	NIH "Cellular Response Mechanisms to Environmental Challenge," Grant #: P30 ES06676, Deputy Director . (Resigned 9-1-96)
1995 - 2001	Howard Hughes Medical Institute; International Program "Structure-function relationships of <i>Methanopyrus kandleri</i> DNA topoisomerase V," Principal Investigators: Alexei Slesarev (Russia) and S.H.W.
1995	NIH "Replication of Triplet Repeat Sequences by Eukaryotic DNA Polymerases," Grant #: P01 GM52982, Principal Investigator of one component (Resigned 9-1-96)
1995	Houston Endowment; "Mary Gibbs Jones Distinguished Chair" in Environmental Toxicology (Resigned 8-1-96)

1996	NIH “Oxidative DNA damage in monocytes <i>in vivo</i> and <i>in vitro</i> ,” Grant #: P50 HL56992 (pending) Principal Investigator of one component project (Resigned 9-1-96)
1997 - 2001	NIH, Intramural AIDS Targeted Antiviral Program, (IATAP), “Structure-Function Studies of HIV-1 Reverse Transcriptase: Enzyme-Nucleic Acid Interactions,” Principal Investigator
2001 - 2004	NATO “DNA Repair Machinery: Study by Photoaffinity Modification Technique,” Grant #: LST.CLG.978233, Principle Investigator
2004 - present	NIH “DNA Polymerase Fidelity Mechanisms: Theory and Experiment,” Grant #: PO1 CA105010. Principal Investigator of one of three component projects.

Bibliography (Peer-reviewed and invited research articles):

1. **Schmidt-Collerus, J.J.**, Krimmel, J.A., Smith, C.D., and Wilson, S.H. Polymerization by the Diels-Alder reaction. University of Denver Research Institute Project Report to Olin-Matheson Corp. for period 1959-1962.
2. **Gray, D.N.**, Bonamo, F., Knight, R., Wilson, S.H., and Schmidt-Collerus, J.J. Synthesis and characterization of ultraviolet radiation absorbers. Progress Reports No. 1-4, 1961-1962 Wright-Patterson Air Development Center, U.S. Air Force 33616-8251. TASK No. 73120.
3. **Wilson, S.H.** and Hoagland, M.B. Studies on the physiology of rat liver polyribosomes I: Quantitation and intracellular distribution of ribosomes. **Proc. Natl. Acad. Sci. USA**, 54:600-607, 1965.
4. **Wilson, S.H.** and Hoagland, M.B. Studies on the physiology of rat liver polyribosomes II: The stability of messenger RNA and ribosomes. **Biochem. J.**, 103:556-566, 1967.
5. **Wilson, S.H.**, Hill, H.Z., and Hoagland, M.B. Studies on the physiology of rat liver polyribosomes III: Protein synthesis by stable polyribosomes. **Biochem. J.**, 103:576-582, 1967.
6. **Hoagland, M.B.**, Wilson, S.H., and Quincey, R.V. Some light on the "Membrane RNA" problem. IN: San Pietro, A. and Kenney, F.T. (eds.), **Regulatory Mechanisms for Protein Synthesis in Mammalian Cells**. Academic Press, 1968, pp. 179-181.
7. **Wilson, S.H.** and Quincey, R.V.: Quantitative determination of low molecular weight RNA in rat liver microsomes. **J. Biol. Chem.**, 244:1092-1096, 1969.
8. **Quincey, R.V.** and Wilson, S.H. The utilization of genes for ribosomal RNA, tRNA and 5S RNA in liver cells of adult rats. **Proc. Natl. Acad. Sci. USA**, 64:981-988, 1969.
9. **Blume, A.**, Gilbert, F., Wilson, S.H., Farber, J., Rosenberg, R., and Nirenberg, M. Regulation of acetylcholinesterase in neuroblastoma cells. **Proc. Natl. Acad. Sci. USA**, 67:786-792, 1970.
10. **Wilson, S.H.** and Kronick, M.N. A new assay technique for reactions that produce radioactive gases. **Anal. Biochem.**, 43:460-467, 1971.
11. **Wilson, S.H.**, Schrier, B.K., Farber, J.L., Thompson, E.J., Rosenberg, R.N., Blume, A.J., and Nirenberg, M.W. Markers for gene expression in cultured cells from the nervous system. **J. Biol. Chem.**, 247:3159-3169, 1972.
12. **Hill, H.Z.**, Wilson S.H., and Hoagland, M.B. Patterns of albumin and general protein synthesis in rat liver as revealed by gel electrophoresis. **Biochim. Biophys. Acta.**, 269:477-484, 1972.
13. **Wilson, S.H.** and Kuff, E.L. A novel DNA polymerase activity found in association with intracisternal A-type particles. **Proc. Natl. Acad. Sci. USA**, 69:1531-1536, 1972.
14. **Miller, J.V.**, Jr., Thompson, E.B., Kuff, E.L., and Wilson, S.H. Polydeoxythymidylate inhibition of rabbit reticulocyte RNA dependent protein synthesis in a Krebs II ascites cell system. **Biochem. Biophys. Res. Commun.**, 48:1280-1286, 1972.
15. **Wilson, S.H.**, Kuff, E.L., Bohn, E.W., and Lueders, K.K. Studies on DNA synthesis in murine myeloma II: Activation of latent RNA-dependent DNA polymerase activity in membrane fractions. **Biochem. Biophys. Res. Commun.**, 49:1093-1099, 1972.
16. **Wilson, S.H.**, Kuff, E.L., Bohn, E.W., Lueders, K.K., and Matsukage, A. DNA polymerase in association with intracisternal A-type particles. IN: Wells, R.A. and Inman, R.B. (eds.), **DNA Synthesis In Vitro**. University Park Press, 1973, pp. 361-367.

17. **Stromberg, K.**, Gantt, R., and Wilson, S.H. Structural studies on avian myeloblastosis virus: Conditions for isolation and biochemical characteristics of the core component. **Biochim. Biophys. Acta.**, 304:1-11, 1973.
18. **Miller, J.V.**, Jr., Wilson, S.H., Kuff, E.L., and Thompson, E.B. Inhibition of cell-free globin synthesis by polydeoxythymidylate. **Biochim. Biophys. Acta.**, 294:507-516, 1973.
19. **Thompson, E.J.**, Wilson, S.H., Schuette, W.H., Whitehouse, W.C., and Nirenberg, M.W. Measurement of the rate and velocity of movement by single heart cells in culture. **Amer. J. Card.**, 32:162-166, 1973.
20. **Schriger, B.K.** and Wilson, S.H. Investigation of methods for measurement of radioactivity in tritiated DNA and applications to assays for DNA polymerase activity. **Anal. Biochem.**, 56:196-207, 1973.
21. **Matsukage, A.**, Bohn, E.W., and Wilson, S.H. Multiple forms of DNA polymerase in mouse myeloma. **Proc. Natl. Acad. Sci. USA**, 71:578-582, 1974.
22. **Wilson, S.H.**, Bohn, E.W., Matsukage, A., Lueders, K.K., and Kuff, E.L. Studies on the relationship between deoxyribonucleic acid polymerase activity and intracisternal A-type particles in mouse myeloma. **Biochemistry**, 13:1087-1094, 1974.
23. **Stromberg, K.** and Wilson, S.H. Structural studies of avian myeloblastosis virus: Selective release of ribonucleoprotein polypeptides from the core component and partial purification of the DNA polymerase. **Biochim. Biophys. Acta.**, 361:53-58, 1974.
24. **Minna, J.D.**, Gazdar, A.F., Iverson, G.M., Marshall, T.H., Stromberg, K., and Wilson, S.H. Onconaravirus expression in human-mouse hybrid cells segregating mouse chromosomes. **Proc. Natl. Acad. Sci. USA**, 71:1695-1700, 1974.
25. **Bohn, E.W.**, Matsukage, A., and Wilson, S.H. Stimulation of DNA polymerase activity by the combination of p-hydroxymercuribenzoate and dithiothreitol. **Biochim. Biophys. Res. Commun.**, 59:243-251, 1974.
26. **Bohn, E.W.** and Wilson, S.H. Studies on the activity of the A particle-associated DNA polymerase. **Cancer Res.**, 34:1977-1981, 1974.
27. **Pertel, R.** and Wilson, S.H. Histamine content of the nematode *caenorhabditis elegans*. **Comp. Gen. Pharmac.**, 5:83-85, 1974.
28. **Matsukage, A.**, Bohn, E.W., and Wilson, S.H. Differential sensitivity of low molecular weight DNA polymerase to sulphydryl-blocking reagents. **Biochim. Biophys. Acta.**, 383:338-343, 1975.
29. **Matsukage, A.**, Bohn, E.W., and Wilson, S.H. On the DNA polymerase III of mouse myeloma: Partial purification and characterization. **Biochemistry**, 14:1006-1020, 1975.
30. **Schriger, B.K.**, Wilson, S.H., and Nirenberg, M. Cultured cell systems and methods for neurobiology. IN: Fleischer, S., Packer, L., and Estabrook, R.W. (eds.), **Methods in Enzymology**. Academic Press, 1976, pp. 765-789.
31. **Schriger, B.K.** and Wilson, S.H. On the measurement of tritium in DNA and its applications to the assay of DNA polymerase activity. IN: Prescott, D.M. (ed.), **Methods in Cell Biology**. Academic Press, 1976, vol. 13, pp. 105-120.
32. **Pitha, J.** and Wilson, S.H. Template specific inhibitor of mammalian DNA polymerases. **Nucleic Acids Res.** 3:825-834, 1976.
33. **Kuff, E.L.**, Lueders, K.K., Orenstein, J., and Wilson, S.H. Differential response of type-C and intracisternal type-A particle markers in cells treated with iododeoxyuridine and dexamethasone. **J. Virol.**, 19:709-716, 1976.

34. Matsukage, A., Sivarajan, M., and Wilson, S.H. Studies on DNA alpha-polymerase of mouse myeloma: Partial purification and comparison of three molecular forms of the enzyme. **Biochemistry**, 15:5305-5314, 1976.
35. Wilson, S.H., Matsukage, A., Bohn, E.W., Chen, Y.C., and Sivarajan, M. Polynucleotide recognition by DNA α -polymerase. **Nucleic Acids Res.**, 4:3981-3996, 1977.
36. Pitha, J., Wilson, S.H., and Pitha, P.M. A vinyl polymer with purine residues deficient in base pairing inhibits murine leukemia virus replication. **Biochem. Biophys. Res. Commun.**, 81:217-223, 1978.
37. Tanabe, K., Bohn, E.W., and Wilson, S.H. Steady-state kinetics of mouse DNA polymerase beta. **Biochemistry**, 18:3401-3407, 1979.
38. Chen, Y.-C., Bohn, E.W., Planck, S.R., and Wilson, S.H. Mouse DNA polymerase alpha: Subunit structure and identification of a species with associated exonuclease. **J. Biol. Chem.**, 254:11678-11687, 1979.
39. Minna, J.D., Marshall, T.H., Brown, S.H., Burk, R.D., Lemon, R.S., and Wilson, S.H. Regulation of expression of type C virion DNA polymerase (reverse transcriptase) in human x mouse and human x rat hybrid cells. **Somatic Cell Genet.**, 5:991-1011, 1979.
40. Planck, S.R., Tanabe, K., and Wilson, S.H. Distinction between mouse DNA polymerases α and β by tryptic peptide mapping. **Nucleic Acids Res.**, 8:2771-2782, 1980.
41. Planck, S.R. and Wilson, S.H. Studies on the structure of mouse helix-destabilizing protein-1. **J. Biol. Chem.**, 255:11547-11556, 1980.
42. Detera, S.D., Becerra, S.P., Swack, J., and Wilson, S.H. Studies on the mechanism of DNA polymerase α : Nascent chain elongation, steady state kinetics and the initiation phase of DNA synthesis. **J. Biol. Chem.**, 256:6933-6943, 1981.
43. Albert, W., Grummt, F., Hubscher, U., and Wilson, S.H. Structural homology among calf thymus α -polymerase polypeptides. **Nucleic Acids Res.**, 10:935-946, 1982.
44. Detera, S.D. and Wilson, S.H. Studies on the mechanism of *Escherichia coli* DNA polymerase I large fragment: Chain termination and modulation by polynucleotides. **J. Biol. Chem.**, 257:9770-9780, 1982.
45. Karawya, E.M. and Wilson, S.H. Studies on catalytic subunits of mouse myeloma α -polymerase. **J. Biol. Chem.**, 257:13129-13134, 1982.
46. Becerra, S.P., Detera, S.D., and Wilson, S.H. Anomalous electrophoretic migration of oligodeoxynucleotides with terminal OH groups: Applications for DNA exonuclease characterization. **Anal. Biochem.**, 129:200-206, 1983.
47. Tanabe, K., Karawya, E., Fewell, J., Kuff, E.L., and Wilson, S.H. DNA polymerase and simian virus 40 infection of resting monkey cell: Induction of a novel aphidicolin resistant DNA polymerase activity. **Nucleic Acids Res.**, 11:8253-8268, 1983.
48. Karawya, E., Swack, J., and Wilson, S.H. Improved conditions for activity gel analysis of DNA polymerase catalytic polypeptides. **Anal. Biochem.**, 135:318-325, 1983.
49. Detera-Wadleigh, S., Karawya, E., and Wilson, S.H. Synthesis of catalytically active DNA polymerase α by *in vitro* translation of calf RNA. IN: Hubscher, U. and Spadani, S. (eds.), **Proteins Involved in DNA Replication**. Plenum Press, 1984, pp. 343-354.
50. Becerra, S.P. and Wilson, S.H. Properties of a novel oligonucleotide-releasing bidirectional DNA exonuclease from mouse myeloma. **Biochemistry**, 23:908-914, 1984.
51. Hazra, A., Detera-Wadleigh, S., and Wilson, S.H. Site specific modification of *E. coli* DNA polymerase I large fragment with pyridoxal 5'-phosphate. **Biochemistry**, 23:2073-2078, 1984.

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More information can be found at <http://www.niehs.nih.gov/ododd/wilson.htm>.