

CURRICULUM VITAE

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PRESENT POSITIONS

Dean, Leonard Davis School of Gerontology, University of Southern California (since 1986)
Executive Director, Ethel Percy Andrus Gerontology Center, University of Southern California (since 1986)
Professor of Medicine, University of Southern California (since 1987)
William and Sylvia Kugel Professor of Gerontology, University of Southern California (since 1989)
Adjunct Professor of Biology, University of Southern California (since 1989)
Licensed to practice medicine in New York, California, Maryland and Colorado

EDUCATION

M.D. Boston University School of Medicine, June 1966 (cum laude)
B.S. Rensselaer Polytechnic Institute, June 1961

OTHER POSITIONS

Scientific Director, Buck Center for Research in Aging, Novato, CA, 1989-1998
Chief, Laboratory of Molecular Genetics, Gerontology Research Center, National Institute on Aging, Bethesda, MD, 1985-1988
Deputy Director, National Institute on Aging, NIH, Bethesda, MD, 1985-1987
Associate Director for Biomedical Research and Clinical Medicine, National Institute on Aging, Bethesda, MD, 1980-1984
Professor of Medicine, University of Colorado School of Medicine, Denver, CO, 1979-1981
Professor of Biochemistry, Biophysics and Genetics, University of Colorado School of Medicine, Denver, CO, 1979-1981
Director, Davis Institute on Aging, Denver, CO, 1979-1980
Chief, Section on Cellular Aging and Genetics, Laboratory of Molecular and Cellular Biology, Gerontology Research Center, National Institute on Aging, Baltimore, MD, 1978-1979
Assistant Professor of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, 1973-1978
Chief, Cell Aging Program, Gerontology Research Center, National Institute on Aging, Baltimore, MD, 1973-1978
Research Fellow in Medical Genetics, Department of Pediatrics, University of California Medical Center, San Francisco, CA, 1970-1973
Research Associate, National Institute of Allergy and Infectious Diseases, Bethesda, MD, 1968-1970

Intern and Assistant Resident in Medicine, New York Hospital, Cornell University Medical Center, New York, NY, 1966-1968
Fellowship in Cytogenetics with J. Lejeune, University of Paris, 1965-1966

UNIFORMED SERVICE

January 25, 1994–January 27, 1994; U.S. Public Health Service 0-6
November 20, 1980–December 31, 1988; U.S. Public Health Service 0-6
May 10, 1973–October 31, 1979; U.S. Public Health Service 0-4-0-6
July 1, 1968–June 30, 1970; U.S. Public Health Service 0-3

HONORS AND AWARDS

Alpha Omega Alpha
Roche Award
Boston University Alumni Award
Begg Honor Society, President
Lecturer, Maryland Academy of Sciences
Member, American Society for Clinical Investigation
Distinguished Lecturer, Sigma Xi
The Returned Services League of Australia Visiting Professor in Geriatric Medicine
Archibald
Watson Lecturer, Annual Scientific Meeting, The Royal Australian College of Physicians
Jacobson Lecturer, Faculty of Medicine, University of Newcastle Upon Tyne, Great Britain

PROFESSIONAL SOCIETIES

AARP
American Society on Aging
Colorado Gerontology Society (Founder)
Gerontological Society of America (Fellow)

EDITORIAL RESPONSIBILITIES

1. Geriatrics & Gerontology International; International Editorial Board, 2001-present
2. Drugs and Aging; International Editorial Board, 1990-2003
3. AGE; Advisory Editorial Board, 1985-1991
4. Journal of Gerontology; Associate Editor, 1988-1991
5. Age and Aging; International Advisory Board, 1986
6. AGE; Associate Editor, 1978-1984
7. Journal of Gerontology; Associate Editor, 1979-1984
8. Experimental Aging Research; Consulting Editor, 1982
9. Mechanisms of Aging and Development; Editorial Board, 1982

GOVERNMENT REVIEW AND CONSULTATION APPOINTMENTS

1. Leadership Council of Los Angeles County Aging Organizations (LAOAC), 1996-present
2. Expert Advisory Task Force, Department of Aging; City of Los Angeles, 1996-2000

3. White House Conference on Aging (WHCoA); California Steering Committee, 1994-1995
4. Biology of Aging Program (BAP); Public Health Service Committee, January 25-27 1994
5. National Council on the Aging/Travelers Geriatric Fellowship Program; Advisor, 1981-1986
6. NIH Cytopathology Study Section, 1980
7. Governor's Conference on Aging (Colorado); Advisory Committee, 1980
8. NIA Program Project Site Visit Teams, 1978-1980
9. NIA Professor Emeritus Committee; Chairman, 1975-1979
10. Public Health Service; Genetics Coordinating Committee, 1977-1979

OTHER ACTIVITIES

Brookdale Foundation

Medical Advisory Board, 1985-1989

Brookdale Awards; Nominating Committee, 1984-1986

Gerontological Society of America

Finance Committee, 1978-1979, 1990

Research, Education, and Practice Committee, 1985-1988

Personnel Committee, 1975-1977

University of Southern California

Search Committee for the Dean, School of Engineering; Chair, 2000

Dean's Advisory Group for University Advancement, 1996-present

Business Affairs Advisory Group, 1996-1998

Provost's Advisory Council of Deans, 1996-1997

Search Committee for the Dean, School of Pharmacy; Chair, 1993-1994

Search Committee for the Dean, School of Medicine; Chair, 1992-1993

Advisory Committee to the Provost, 1990-1992

Search Committee for the Dean, School of Fine Arts; Chair, 1988

AARP Andrus Foundation; Board of Councilors, 2000-2002

American Federation for Aging Research (AFAR), Inc.; Board of Directors, 1985-present

Alliance for Aging Research; Science Advisory Board, 1989-present

Center for Health Aging, Santa Monica, CA; Advisory Board, 1996-present

The Fromm Institute for Lifelong Learning; Board of Directors, 1990-1998

John D. and Catherine T. MacArthur Foundation; Consultant, 1985-1993

AltaMed Health Services Corporation; Advisory Board, 1992

The French Foundation; National Advisory Board, 1989-1992

Foundation De France; Consultant, 1987-1990

Normative Aging Study (NAS); Advisory Panel, 1986-1987

Robert Wood Johnson Foundation; Advisory Committee for Teaching Nursing Home Program, 1981-1986

Association of American Medical Colleges; Project Advisory Committee for the AoA Long-Term Care Gerontology Centers, 1980-1982

EPA GENE-TOX; Committee on Sister Chromatid Exchanges, 1979

BOOKS

1. Schneider EL (ed.). 1978. The Aging Reproductive System. New York: Raven Press.

2. Schneider EL (ed.). 1978. The Genetics of Aging. New York: Plenum Press.
3. Reff ME & Schneider EL (eds.). 1982. Biological Markers of Aging (No. 82-2221). DHHS, NIH, PHS, NIH.
4. Finch CE & Schneider EL (eds.). 1985. Handbook of the Biology of Aging (2nd ed.). New York: Van Nostrand Reinhold Company, Inc.
5. Pullman B, Ts'o POP & Schneider EL (eds.). 1985. Interrelationship Among Aging, Cancer and Differentiation. Dordrecht, Holland: D. Reidel Publishing Company.
6. Schneider EL, Wendland CJ, Zimmer AW, List N & Ory M (eds.). 1985. The Teaching Nursing Home: A New Approach to Geriatric Research, Education, and Clinical Care. New York: Raven Press.
7. Warner HB, Butler RN, Sprott RL & Schneider EL (eds.). 1987. Modern Biological Theories of Aging. Aging Series, Vol. 31. New York: Raven Press.
8. Jackson JS, Newton P, Ostfield A, Savage D & Schneider EL (eds.). 1988. The Black American Elderly: Research on Physical and Psychosocial Health. New York: Springer Publishing Company.
9. Scharlach AE, Lowe BF & Schneider EL (eds.). 1990. Elder Care and the Work Force: Blue Print for Action. Lexington, MA: Lexington Books.
10. Schneider EL & Rowe JW (eds.). 1990. The Handbook of the Biology of Aging (3rd ed.). San Diego: Academic Press, Inc.
11. Schneider EL & Rowe JW (eds.). 1996. The Handbook of the Biology of Aging (4th ed.). San Diego: Academic Press, Inc.
12. Wilber K, Schneider EL & Polisar D (eds.). 1997. A Secure Old Age: Financing Long-term Care. New York: Springer Publishing Co.
13. Schneider EL & Miles E. 2003. AgeLess: Take Control of Your Age and Stay Youthful For Life. Emmaus, PA: Rodale Books.

CHRONOLOGICAL LIST OF OTHER PUBLICATIONS

1. Schneider EL & Salzman NP (1970) Isolation and zonal fractionation of metaphase chromosomes from human diploid cells. *Science* 167(921):1141-1143.
2. Chused TM, Cohn CK, Schneider E & Winfield JB (1971) Medical care during the November 1969 antiwar demonstrations in Washington, DC: An experience in crowd medicine. *Archives of Internal Medicine* 127:67-69.
3. Epstein CJ, Brady RO, Schneider EL, Bradley RM & Shapiro D (1971) In utero diagnosis of Niemann-Pick disease. *American Journal of Human Genetics* 23(5):533-535.
4. Schneider EL (1971) The organization and delivery of medical care during the mass anti-war demonstration at the Ellipse in Washington, D.C. on May 9, 1970. *American Journal of Public Health* 61(7):1434-1442.
5. Schneider EL & Epstein CJ (1971) Use of chromosome fluorescence in evaluating human chromosome fractionation. *Experimental Cell Research* 69(2):471-472.
6. Suzuki K, Schneider EL & Epstein, CJ (1971) In utero diagnosis of globoid cell leukodystrophy (Krabbe's Disease). *Biochemical and Biophysical Research Communications* 45(5):1363-1366.
7. Epstein CJ, Schneider EL, Conte FA & Friedman S (1972) Prenatal detection of genetic disorders. *American Journal of Human Genetics* 24(2):214-226.
8. Schneider EL, Brady RO, Ellis WG, McCulloch JR & Epstein CJ (1972) Prenatal Niemann-Pick disease: Biochemical and histologic examination of a 19-gestational week fetus. *Pediatric Research* 6(9):720-729.

9. Schneider EL, Ellis WG, Brady RO, McCulloch JR & Epstein CJ (1972) Infantile (type II) Gaucher's disease: In utero diagnosis and fetal pathology. *Journal of Pediatrics* 81(6):1134-1139.
10. Schneider EL & Epstein CJ (1972) Replication rate and lifespan of cultured fibroblasts in Down's syndrome. *Proceedings of the Society for Experimental Biology and Medicine* 141(3):1092-1094.
11. Ellis WG, Schneider EL, McCulloch JR, Suzuki K & Epstein CJ (1973) Fetal globoid cell leukodystrophy (Krabbe Disease): Pathological and biochemical examination. *Archives of Neurology* 29(4):253-257.
12. Schneider EL (1973) Lip pits and congenital absence of second premolars: Varied expression of the Lip Pits syndrome. *Journal of Medical Genetics* 10(4):346-349.
13. Schneider EL, Epstein CJ, Epstein WL, Betlach M & Abbo-Halbasch G (1973) Detection of mycoplasma contamination in cultured human diploid fibroblasts. Comparison of biochemical and microbiological techniques. *Experimental Cell Research* 79(2):343-349.
14. Golbus MS, Conte FA, Schneider EL & Epstein CJ (1974) Intrauterine diagnosis of genetic defects: Results, problems, and follow-up of one hundred cases in a prenatal genetic detection center. *American Journal of Obstetrics and Gynecology* 118(7):897-905.
15. Schneider EL, Stanbridge EJ & Epstein CJ (1974) Incorporation of 3H-uridine and 3H-uracil into RNA: A simple technique for the detection of mycoplasma contamination of cultured cells. *Experimental Cell Research* 84(1):311-318.
16. Schneider EL, Stanbridge EJ, Epstein CJ, Golbus M, Abbo-Halbasch G & Rogers G (1974) Mycoplasma contamination of cultured amniotic fluid cells: Potential hazard to prenatal chromosome diagnosis. *Science* 184(135):477-480.
17. Stanbridge EJ & Schneider EL (1974) Detection of mycoplasma contaminants in cell culture by biochemical methods. *Inserm* 33:169-178.
18. Tan YH, Schneider EL, Tischfield J, Epstein CJ & Ruddle FH (1974) Human chromosome 21 dosage: Effect on the expression of the interferon induced antiviral state. *Science* 186:61-63.
19. Golde DW, Schneider EL, Bainton DF, Pentchev PG, Brady RO, Epstein CJ & Cline MJ (1975) Pathogenesis of one variant of sea-blue histiocytosis. *Laboratory Investigation* 33(4):371-378.
20. Schneider EL (1975) Detection of mycoplasma contamination in cultured cells: Comparison of biochemical, morphological and microbiological techniques. *Methods in Cell Biology* 10:261-275.
21. Schneider EL & Mitsui Y (1975) Temporal sequence of "aging" parameters in cultured human diploid fibroblasts. *Proceedings of the Tenth International Congress on Gerontology* 1:140-142.
22. Schneider EL, Mitsui Y, Tice R, Shorr SS & Braunschweiger K (1975) Alteration in cellular RNAs during the in vitro lifespan of cultured human diploid fibroblasts II. Synthesis and processing of RNA. *Mechanism of Ageing and Development* 4(4/5):449-458.
23. Schneider EL & Shorr SS (1975) Alteration in cellular RNAs during the in vitro lifespan of cultured human diploid fibroblasts. *Cell* 6(2):179-184.
24. Schneider EL & Stanbridge EJ (1975) Comparison of methods for the detection of mycoplasma contamination of cell cultures: A review. *In Vitro* 11(1):20-34.
25. Schneider EL & Stanbridge EJ (1975) A simple biochemical technique for the detection of mycoplasma contamination of cultured cells. *Methods in Cell Biology* 10:277-290.

26. Stanbridge EJ, Tischfield JA & Schneider EL (1975) Appearance of hypoxanthine guanine phosphoribosyl transferase activity as a consequence of mycoplasma contamination. *Nature* 256:329-331.
27. Tice R, Chaillet J & Schneider, EL (1975) Evidence derived from sister chromatid exchanges of restricted rejoining of chromatid subunits. *Nature* 256:642-644.
28. Mitsui Y & Schneider EL. 1976. Characterization of fractionated human diploid fibroblast cell populations. *Experimental Cell Research*, 103(1): 23-30.
29. Mitsui Y & Schneider EL. 1976. Increased nuclear sizes in senescent human diploid fibroblast cultures. *Experimental Cell Research*, 100(1): 147-152.
30. Mitsui Y & Schneider EL. 1976. Relationship between cell replication and volume in senescent human diploid fibroblasts. *Mechanisms of Ageing and Development*, 5(1): 45-56.
31. Schneider EL, Chaillet J & Tice R. 1976. In vivo BUdR labeling of mammalian chromosomes. *Experimental Cell Research*, 100(1): 396-399.
32. Schneider EL & Chase GA. 1976. Relationship between age of donor and in vitro lifespan of human diploid fibroblasts. *Interdisciplinary Topics in Gerontology*, 10: 62-69.
33. Schneider EL & Fowlkes BJ. 1976. Measurement of DNA content and cell volume in senescent human fibroblasts utilizing flow multiparameter single cell analysis. *Experimental Cell Research*, 98(2): 298-302.
34. Schneider EL & Mitsui Y. 1976. The relationship between in vitro cellular aging and in vivo human age. *Proceeding of the National Academy of Sciences of the United States of America*, 73(10): 3584-3588.
35. Stanbridge EJ & Schneider EL. 1976. The need for non-cultural methods for the detection of mycoplasma contaminants. *Developments in Biological Standardization*, 37: 191-200.
36. Stanbridge EJ & Schneider EL. 1976. A simple biochemical method for the detection of mycoplasmas and other microbial contaminants of cell cultures. *Tissue Culture Association Manual*, 2: 371-374.
37. Tice R, Chaillet J & Schneider EL. 1976. Demonstration of spontaneous sister chromatid exchanges in vivo. *Experimental Cell Research*, 102(2): 426-429.
38. Tice R & Schneider EL. 1976. In vitro aspects of human genetic disorders which feature accelerated aging. *Interdisciplinary Topics in Gerontology*, 9: 60-68.
39. Tice R, Schneider EL & Rary JM. 1976. The utilization of bromodeoxyuridine incorporation into DNA for the analysis of cellular kinetics. *Experimental Cell Research*, 102(2): 232-236.
40. Gal AE, Brady RO, Pentchev PG, Furbish FS, Suzuki K, Tanaka H & Schneider EL. 1977. A practical chromogenic procedure for the diagnosis of Krabbe's disease. *Clinica Chimica Acta*, 77(1): 53-59.
41. Reff ME, Stanbridge EJ & Schneider EL. 1977. Phylogenetic relationships between mycoplasmas and other prokaryotes based upon the electrophoretic behavior of their ribosomal RNAs. *International Journal of Systematic Bacteriology*, 27: 185-193.
42. Schneider EL, Epstein CJ, Kaback MJ & Brandes D. 1977. Severe pulmonary involvement in adult Gaucher's disease: Report of three cases and a review of the literature. *American Journal of Medicine*, 63(3): 475-480.
43. Schneider EL & Kram D. 1977. Examination of the effect of ageing on cell replication and sister chromatid exchange. In Nichols WW & Murphy DG (eds.), *DNA repair processes* (pp. 177-189). Miami: Symposium Specialists, Inc..

44. Schneider EL, Mitsui Y, Au KS & Shorr SS. 1977. Tissue specific differences in cultured human diploid fibroblasts. Experimental Cell Research, 108: 1-6.
45. Schneider EL, Sternberg H & Tice RR. 1977. In vivo analysis of cellular replication. Proceedings of the National Academy of Sciences of the United States of America, 74(5): 2041-2044.
46. Danner DB, Schneider EL & Pitha J. 1978. Macromolecular synthesis in human diploid fibroblasts: A viral probe examining the effect of in vivo aging. Experimental Cell Research, 114(1): 63-67.
47. Fabricant JD, Dunn G & Schneider EL. 1978. Maternal age related pre- and post-implantation fetal mortality: A strain survey. Mechanism of Ageing and Development, 8(4): 227-231.
48. Fabricant JD & Schneider EL. 1978. Studies of the genetic and immunologic components of the maternal age effect. Developmental Biology, 66(2): 337-343.
49. Kram D & Schneider EL. 1978. An effect of reproductive aging: Increased risk for genetically abnormal offspring. In Schneider EL (ed.), The aging reproductive system (pp. 237-270). New York: Raven Press.
50. Kram D & Schneider EL. 1978. Parental-age effects: Increased frequencies of genetically abnormal offspring. In Schneider EL (ed.), The genetics of aging (pp. 225-260). New York: Plenum Publ. Corp.
51. Kram D. & Schneider EL. 1978. Reduced frequencies of mitomycin-C induced sister chromatid exchanges in AKR mice. Human Genetics, 41(1): 45-51.
52. Kram D, Schneider EL, Singer L & Martin GR. 1978. The effects of high and low fluoride diets on the frequencies of sister chromatid exchanges. Mutation Research, 57(1): 51-55.
53. Kram D, Schneider EL, Tice RR & Gianas P. 1978. Aging and sister chromatid exchange. I. The effect of aging on mitomycin-C induced sister chromatid exchange frequencies in mouse and rat bone marrow cells in vivo. Experimental Cell Research, 114(2): 471-475.
54. Schneider EL. 1978. Clinical importance of detecting mycoplasma contamination of cell cultures. In McGarrity GJ, Murphy DG & Nichols WW (eds.), Mycoplasma infection of cell cultures (pp. 183-190). New York: Plenum Publ. Corp.
55. Schneider EL. 1978. Cytogenetics of aging. In Schneider EL (ed.), The genetics of aging (pp. 27-52). New York: Plenum Publ. Corp.
56. Schneider EL. 1978. The dilemma of aging parents: Increased risk of genetically abnormal offspring. In Behnke JA, Finch CE & Moment GB (eds.), The biology of aging (pp. 247-261). New York: Plenum Publ. Corp.
57. Schneider EL. 1978. In vivo vs. in vitro cellular aging. In Bergsma D & Harrison DE (eds.), Genetic effects on aging (pp. 159-169). New York: Alan R. Liss, Inc., National Foundation Service.
58. Schneider EL. 1978. In vivo versus in vitro cellular aging. Birth Defects: Original Article Series, 14(1): 159-169.
59. Schneider EL, Braunschweiger K & Mitsui Y. 1978. The effect of serum batch on the in vitro lifespans of cell cultures derived from old and young human donors. Experimental Cell Research, 115(1): 47-52.
60. Schneider EL & Gilman B. 1978. Sister chromatid exchanges and aging. III. The effect of donor age on mutagen-induced sister chromatid exchange in human diploid fibroblasts. Human Genetics, 162: 1-7.

61. Schneider EL & Monticone RE. 1978. Aging and sister chromatid exchange. II. The effect of the in vitro passage level of human fetal lung fibroblasts on baseline and mutagen-induced sister chromatid exchange frequencies. Experimental Cell Research, 115(2): 269-276.
62. Schneider EL, Pentchev PG, Hibbert SR, Sawitsky A & Brady RO. 1978. A new form of Niemann-Pick disease characterized by temperature-labile sphingomyelinase. Journal of Medical Genetics, 15(5): 370-374.
63. Schneider EL, Tice RR & Kram D. 1978. Bromodeoxyuridine differential chromatid staining technique: A new approach to examining sister chromatid exchange and cell replication kinetics. Methods in Cell Biology, 20: 379-409.
64. Smith JR, Pereira-Smith OM & Schneider EL. 1978. Colony size distributions as a measure of in vivo and in vitro aging. Proceedings of the National Academy of Sciences of the United States of America, 75(3): 1353-1356.
65. Hollenberg MD & Schneider EL. 1979. Receptors for insulin and epidermal growth factor-urogastrone in adult human fibroblasts do not change with donor age. Mechanisms of Ageing and Development, 11(1): 37-43.
66. Kram D, Bynum GD, Senula GC & Schneider EL. 1979. In utero sister chromatid exchange analysis for detection of transplacental mutagens. Nature, 279: 531.
67. Kram D, Schneider EL, Senula GC & Nakanishi Y. 1979. Spontaneous and mitomycin-C induced sister chromatid exchanges. Comparison of in vivo and in vitro systems. Mutation Research, 60(3): 339-347.
68. Monticone RE & Schneider EL. 1979. Induction of sister chromatid exchanges in human cells by fluorescent light. Mutation Research, 59(2): 215-221.
69. Nakanishi Y, Kram D & Schneider EL. 1979. Aging and sister chromatid exchange. IV. Reduced frequencies of mutagen-induced sister chromatid exchanges in vivo in mouse bone marrow cells with aging. Cytogenetics and Cell Genetics, 24(1): 61-67.
70. Nakanishi Y & Schneider EL. 1979. In vivo sister chromatid exchange: A sensitive measure of DNA damage. Mutation Research, 60(3): 329-337.
71. Schneider EL. 1979. Aging and cultured human skin fibroblasts. Journal of Investigative Dermatology, 73(1): 15-18.
72. Schneider EL. 1979. Cell replication and aging: In vitro and in vivo studies. Federation Proceedings, 38(5): 1857-1861.
73. Schneider EL & Gilman B. 1979. Sister chromatid exchanges and aging. III. The effect of donor age on mutagen-induced sister chromatid exchange in human diploid fibroblasts. Human Genetics, 46(1): 57-63.
74. Schneider EL, Kram D, Nakanishi Y, Monticone RE, Tice RR, Gilman BA & Nieder ML. 1979. The effect of aging on sister chromatid exchange. Mechanisms of Ageing and Development, 9(3/4): 303-311.
75. Schneider EL, Mitsui Y, Sternberg H, Kram D, Senula G, Smith JR, Tice RR & Bynum G. 1979. The effect of aging on cellular replication in vitro and in vivo. In Orimo HM & Maeda D (eds.), Recent advances in gerontology: Excerpta medica international congress series (469: 106-107).
76. Schneider EL, Sternberg HD, Tice RR, Senula GC, Kram D, Smith JR & Bynum G. 1979. Cellular replication and aging. Mechanisms of Ageing and Development, 9(3/4): 313-324.

77. Tice RR, Schneider EL, Kram D & Thorne P. 1979. Cytokinetic analysis of the impaired proliferative response of peripheral lymphocytes from aged humans to phytohemagglutinin. Journal of Experimental Medicine, 149(5): 1029-1041.
78. Tice R, Thorne P & Schneider EL. 1979. BISACK analysis of the phytohaemagglutinin-induced proliferation of human peripheral lymphocytes. Cell and Tissue Kinetics, 12(1): 1-9.
79. Dean R, Bynum G, Kram D & Schneider EL. 1980. Sister chromatid exchange induction by carcinogens in HTC cells: An in vitro system which does not require addition of activating factors. Mutation Research, 74(6): 477-483.
80. Kram D, Bynum GD, Senula GC, Bickings CK & Schneider EL. 1980. In utero analysis of sister chromatid exchange: Alterations in susceptibility to mutagenic damage as a function of fetal cell type and gestational age. Proceedings of the National Academy of Science of the United States of America, 77(8): 4784- 4787.
81. Nakanishi Y, Dein RA & Schneider EL. 1980. Aging and sister chromatid exchange. V. The effect of post-embryonic development on mutagen-induced sister chromatid exchanges in mouse and rat bone marrow cells. Cytogenetics and Cell Genetics, 27(2/3): 82-87.
82. Schneider EL. 1980. Alternate cellular models for aging studies. Advances in Experimental Medicine and Biology, 129:55-58.
83. Schneider EL. Aneuploidy and aging. 1980. In Conference on Structural Pathology in DNA and the Biology of Aging, (pp. 221-234). Deutsche Forschungsgemeinschaft Zentrallaboratorium fur Mutagenitatsprufung, Boppard, Boldt.
84. Schneider EL. 1980. Cell biology. In McGraw-Hill yearbook of science and technology (pp. 113-114). New York: McGraw-Hill.
85. Schneider EL & Bickings CK. 1980. Aging and sister chromatid exchange. VI. The effect of in vitro passage on spontaneous SCE frequencies in human fetal lung fibroblast cultures. Cytogenetics and Cell Genetics, 26(1): 61-64.
86. Schneider EL & Kram D. 1980. Animal models for studying parental age effects. In Cruz FF & Gerald PS (eds.), Workshop on Trisomy 21: Down Syndrome research perspectives (pp. 275-280). Baltimore, MD: University Park Press.
87. Schneider EL, Kram D, Tice RR, Nakanishi Y, Monticone RE & Bickings CK. Sister chromatid exchange in mice and men. 1980. In Conference on Structural Pathology in DNA and the Biology of Aging, (pp. 96-107). Deutsche Forschungsgemeinschaft Zentrallaboratorium fur Mutagenitatsprufung, Boppard, Boldt.
88. Irving JT, LeBolt SA & Schneider EL. 1981. Ectopic bone formation and aging. Clinical Orthopaedics and Related Research, 154: 249-253.
89. Kram D, Bynum G, Dean R, Schneider EL, Farland WH & Williams JR. 1981. Effects of acute and chronic administration of mitomycin-C on the induction of sister chromatid exchanges in vivo. Environmental Mutagenesis, 3(4): 489-495.
90. Latt SA, Allen J, Bloom SE, Carrano A, Falke E, Kram D, Schneider EL, Schreck R, Tice R, Whitfield B & Wolff S. 1981. Sister chromatid exchanges: A report of the Gene-Tox program. Mutation Research, 87: 17-62.
91. Mann PL, Kern DE, Kram D & Schneider EL. 1981. Relationship between in vivo mitomycin-C exposure sister chromatid exchange induction and in vitro mitogenic proliferation. I. Development of murine splenic cell system. Mechanisms of Ageing and Development, 17(2): 195-201.
92. Mann PL, Kern DE, Kram D & Schneider EL. 1981. Relationship between in vivo mitomycin-C exposure, sister chromatid exchange induction and in vitro mitogenic

- proliferation. II. Effect of aging on spleen cell mitogenesis and sister chromatid exchange induction. Mechanisms of Ageing and Development, 17(2): 203-209.
93. Mitsui Y, Smith JR & Schneider EL. 1981. Equivalent proliferation potential different size classes of human diploid fibroblasts. Journal of Gerontology, 36(4): 416-419.
 94. Reff ME & Schneider EL. 1981. Cell culture aging. Molecular and Cellular Biochemistry, 36(3): 169-176.
 95. Schneider EL. 1981. Aging and reproductive performance: Models for the study of age-related chromosomal and point mutations. Maternal age and aneuploidy. In Schimke R (ed.), Biological Mechanisms in Aging, conference proceedings, June 1980, NIH Publication No. 81 2194 (pp. 29-54). Bethesda, MD: U.S. Department of Health and Human Services.
 96. Schneider EL. 1981. A new approach to measuring human biological age: Studies on human skin fibroblasts in tissue culture. In Marois M (ed.), Aging: A challenge to science and social policy: Vol. 1., Biology (pp. 295-300). London: Oxford University Press.
 97. Schneider EL. 1981. Cellular effects of age-related changes in DNA replication. In Florini J (ed.), CRC handbook of biochemistry in aging (pp. 9-24). Boca Raton, FL: CRC Press, Inc.
 98. Schneider EL. 1981. The teaching nursing home. In Physician Involvement in Nursing Homes, conference proceedings, May 1981 (pp. 34-37). Washington, D.C.: National Foundation for Long Term Health Care.
 99. Schneider EL & Butler RN. 1981. Geriatrics. JAMA, 245(21): 2190-2191.
 100. Schneider EL & Lewis J. 1981. Aging and sister chromatid exchange. VIII. Effect of the aging environment on sister chromatid exchange induction and cell cycle kinetics in Ehrlich ascites tumor cells: A brief note. Mechanisms of Ageing and Development, 17(4): 327-330.
 101. Schneider EL, Monticone R, Smith J, Braunschweiger K & Roberts T. 1981. Skin fibroblast cultures derived from members of the Baltimore Longitudinal Study: A new resource for studies of cellular aging. Cytogenetics and Cell Genetics, 31(2): 40-46.
 102. Schneider EL, Nakanishi Y, Lewis J & Sternberg H. 1981. Simultaneous examination of sister chromatid exchanges and cell replication kinetics in tumor and normal cells in vivo. Cancer Research, 41(12): 4973-4975.
 103. Schneider EL & Smith JR. 1981. The relationship of in vitro studies to in vivo human aging. International Review of Cytology, 69: 261-270.
 104. Taylor L, Schneider EL, Smith JR & Polgar P. 1981. Prostaglandin production and cellular aging. Mechanisms of Ageing and Development, 16: 311-317.
 105. Kato H, Reff M & Schneider EL. 1982. Analysis of regenerating hepatic cell replication in vivo by differential chromatid staining. Cell and Tissue Kinetics, 15(6): 637-642.
 106. Schneider EL. 1982. Aging and sister chromatid exchange. In Sandberg A (ed.), Sister chromatid exchange (pp. 195-203). New York: Alan R. Liss, Inc.
 107. Schneider EL. 1982. In vivo methods for detecting sister chromatid exchange. In Wolff S (ed.), Sister chromatid exchange (pp. 229-242). New York: Wiley-Interscience.
 108. Schneider EL, Bickings CK & Sternberg H. 1982. Aging and sister chromatid exchange. VII. Effect of aging on background SCE in vivo. Cytogenetics and Cell Genetics, 33(3): 249-253.

109. Schneider EL & Lewis J. 1982. Comparison of in vivo and in vitro SCE induction. Mutation Research, 106(1): 85-90.
110. Schneider EL & Steinberg GM. 1982. The National Institute on Aging's second workshop on pharmacology and aging, June 4-5, 1981. The Pharmacologist, 24: 65-67.
111. Schneider EL. 1983. Biomarkers of aging. Journal of the American Geriatrics Society, 31(6): 379-380.
112. Schneider EL. 1983. Infectious diseases in the elderly. Annals of Internal Medicine, 98(3): 395-400.
113. Schneider EL. 1983. Infectious diseases in the elderly. Journal of the American Geriatrics Society, 31: 317.
114. Schneider EL. 1983. Teaching nursing homes. New England Journal of Medicine, 308(6): 336-337.
115. Schneider EL & Brody JA. 1983. Aging, natural death, and the compression of morbidity: Another view. New England Journal of Medicine, 309(14): 854-856.
116. Schneider EL & Bynum GD. 1983. Diseases that feature alterations resembling premature aging. In Blumenthal HT (ed.), Handbook of diseases of aging (pp. 133-146). New York: Van Nostrand Reinhold Company, Inc.
117. Schneider EL. 1984. Biomedical aging research in 1983: Some highlights. Journal of the American Geriatrics Society, 32(4): 293-295.
118. Schneider EL. 1985. Aging research: Challenge of the twenty-first century. Basic Life Sciences, 35: 1-11.
119. Schneider EL. 1985. Cytogenetics of aging. In Finch CE & Schneider EL (eds.), Handbook of the biology of aging (2nd ed.) (pp. 357-373). New York: Van Nostrand Reinhold Company, Inc.
120. Schneider EL. 1985. Directions futures dans la recherche du vieillissement: La necessite de vaincre les maladies du vieillissement. Cahiers du Mouvement Universel de la Responsabilite Scientifique, 2: 63-73.
121. Schneider EL. 1985. Human skin-derived fibroblast-like cells in culture. In Cristofalo VJ (ed.), CRC handbook of cell biology of aging (pp. 425-432). Boca Raton, FL: CRC Press, Inc.
122. Schneider EL. 1985. Implications of new knowledge for geriatric care and the education of health professionals (panel presentation). In The Report of the National Invitational Conference on Issues and Strategies in Geriatric Education (pp. 66-68). Sponsored by Bureau of Health Professions, Health Resources and Services Administration, DHHS, March 4-6, 1985, Washington, DC.
123. Schneider EL. 1985. Interrelationships among aging, cancer and differentiation. In Pullman B, Ts'o POP & Schneider EL (eds.), Interrelationship among aging, cancer and differentiation (pp. 1-5). Dordrecht, Holland: D. Reidel Publishing Company.
124. Schneider EL. 1985. Introduction. In Schneider EL, et al. (eds.), The teaching nursing home: A new approach to geriatric research, education, and clinical care (pp. 1-3). New York: Raven Press.
125. Schneider EL & Emr M. 1985. Alzheimer's disease. Research highlights. Geriatric Nursing, 6(3): 136-138.
126. Schneider EL & Reed JD. 1985. Life extension. New England Journal of Medicine, 312(18): 1159-1168.
127. Schneider EL & Reed JD. 1985. Modulations of aging processes. (pp. 45-76). New York: Van Nostrand Reinhold Company, Inc.

128. Sprott RL & Schneider EL. 1985. Biomarkers of aging. Drug-Nutrient Interactions, 4(1/2): 43-52.
129. Brody JA & Schneider EL. 1986. Diseases and disorders of aging: An hypothesis. Journal of Chronic Diseases, 39(11): 871-876.
130. Hadley EC, Abbey J, Awad S, Burgio K, Craighead WE, Diokno AC, Engel BT, Fantl JA, Jarvis GJ, Mittleness L, Ory M, Ouslander JG, Resnick NM, Rooney V, Schneider EL, Schucker B, Wells T, Whitehead W, Williams M & Willington FL. 1986. Bladder training and related therapies for urinary incontinence in older people. Journal of the American Medical Association, 256: 279-372.
131. Schneider EL. 1986. Issues in aging research in America. Inserm-eurage, 147: 11-16.
132. Schneider EL. Spring 1986. Major issues and outcomes associated with research in aging. In The Elvira Lewis Foundation Elder Press Quarterly Newsletter (p. 7).
133. Schneider EL & Brody JA. 1986. Geriatric nephrology: Perspectives. In Michelis MF, Davis BB & Preuss HG (eds.), Geriatric nephrology (pp. 1-4). New York: Field, Rich and Associates, Inc.
134. Schneider EL & Jones PW. 1986. Research on aging: A perspective from the National Institute on Aging. Pharmaceuticals for the Elderly, 8-10.
135. Schneider EL, Vining EM, Hadley EC & Farnham SA. 1986. Recommended dietary allowances and the health of the elderly. New England Journal of Medicine, 314(3): 157-160.
136. Schneider EL & Williams TF. 1986. Geriatrics and gerontology: Imperatives in education and training. Annals of Internal Medicine, 104(3): 432-434.
137. Guralnik JM & Schneider EL. 1987. The compression of morbidity: A dream which may come true, someday! Gerontologica Perspecta, 8-14.
138. Guralnik JM & Schneider EL. 1987. Prospects and implications of extending life expectancy. In Espenshade TJ & Stolnitz GJ (eds.), Technological prospects and population trends (pp. 125-146). Boulder, CO: Westview Press, Inc.
139. Schneider EL. 1987. Exercise and longevity: Fact versus fiction. Hospital Medicine, (Suppl.): 109-118.
140. Schneider EL. 1987. Interventions and aging: A note on biomedical perspective. In Riley MW, Matarazzo JD & Baum A (eds.), Perspectives in behavioral medicine: The aging dimension (pp. 143-148). Hillsdale, NJ: Lawrence Erlbaum Associates.
141. Schneider EL. 1987. Theories of aging: A perspective. In Warner HR, et al. (eds.), Modern biological theories of aging (pp. 1-4). New York: Raven Press.
142. Schneider EL, Ory M & Aung ML. 1987. Teaching nursing homes revisited: Survey of affiliations between American medical schools and long-term-care facilities. Journal of the American Medical Association, 257(20): 2771-2775.
143. Schneider EL & Williams TF. 1987. Research on ageing: An imperative for a healthy old age. Medical Journal of Australia, 47(11/12): 533-534.
144. Guralnik, JM, Yanagishita M & Schneider EL. 1988. Projecting the older population of the United States: Lessons from the past and prospects for the future. Milbank Quarterly, 66(2): 283-308.
145. Nagel JE, Chopra RK, Chrest FJ, McCoy MT, Schneider EL, Holbrook NJ & Alder WH. 1988. Decreased proliferation, interleukin 2 synthesis, and interleukin 2 receptor expression is accompanied by decreased mRNA transcription in phytohemagglutinin stimulated cells from elderly donors. Journal of Clinical Investigation, 81(84): 1096-1102.

146. Schneider, EL. 1988. Aging and disease. In Bianchi L, Holt P, James OFW & Butler RN (eds.), Aging in liver and gastro-intestinal tract (pp. 25-30). Lancaster, England: MTP Press Limited.
147. Singh NP, McCoy M, Tice R & Schneider EL. 1988. A simple technique for quantitation of low levels of DNA damage in individual cells. Experimental Cell Research, 175(1): 184-191.
148. Holbrook NJ, Chopra RK, McCoy MT, Nagel JE, Powers DC, Adler WH, Schneider EL. 1989. Expression of interleukin 2 and the interleukin 2 receptor in aging rats. Cellular Immunology, 120(1): 1-9.
149. McClung JK, Danner DB, Stewart DA, Smith JR, Schneider EL, Lumpkin CK, Dell'Orco RT & Nuell MJ. 1989. Isolation of a cDNA that hybrid selects antiproliferative mRNA from rat liver. Biochemical and Biophysical Research Communications, 164(3): 1316-1322.
150. Schneider EL. 1989. In vitro skin fibroblast studies and human aging. In Balin AK & Kligman AM (eds.), Aging and the skin (pp. 85-92). Philadelphia: Lippincott, Williams & Wilkins.
151. Schneider EL. 1989. Options to control the rising health care costs of older Americans. JAMA, 261(6): 1-9.
152. Singh NP, Danner DB, Tice RR, McCoy MT, Collins GD & Schneider EL. 1989. Abundant alkali-sensitive sites in DNA of human and mouse sperm. Experimental Cell Research, 184(2): 461-470.
153. Fargnoli J, Kunisada T, Fornace AJ Jr, Schneider EL & Holbrook NJ. 1990. Decreased expression of heat shock protein 70 mRNA and protein after treatment in cells of aged rats. Proceedings of the National Academy of Sciences of the United States of America, 87(2): 846-850.
154. Kunisada T, Danner DB, Friedman V & Schneider EL. 1990. Increased susceptibility to SV40 transformation with development and in vitro aging. Experimental Cell Research, 189(2): 222-226.
155. Kunisada T, Miller CD & Schneider EL. 1990. Ultraviolet light-induced DNA damage in transcribed sequences: No changes in repair with age. Mutation Research, 237(2): 75-81.
156. Rowe JW & Schneider EL. 1990. Aging processes. In Abrams WB & Berkow R (eds.), The Merck manual of geriatrics (pp. 303-308). Rahway, NJ: Merck & Co., Inc.
157. Sato AI, Schneider EL & Danner DB. 1990. Aberrant gene expression and aging: Examination of tissue-specific mRNAs in young and old rats. Mechanisms of Ageing and Development, 54(1): 1-12.
158. Schneider EL. 1990. Interventions in aging. In Butler RN, Oberlink MR & Schecter M (eds.), The promise of productive aging: From biology to social policy (pp. 12-18). New York: Springer Publishing Company.
159. Schneider EL & Guralnik JM. 1990. The aging of America. Impact on health care costs. JAMA, 263(17): 2335-2340.
160. Singh NP, Danner DB, Tice RR, Brant L & Schneider EL. 1990. DNA damage and repair with age in individual human lymphocytes. Mutation Research, 237(3/4): 123-130.
161. White J, Neuwirth H, Miller CD & Schneider EL. 1990. DNA alterations in prostatic adenocarcinoma and benign prostatic hyperplasia: Detection by DNA fingerprint analysis. Mutation Research, 237(2): 37-45.

162. Nuell MJ, Stewart DA, Walker L, Friedman V, Wood CM, Owens GA, Smith JR, Schneider EL, Dell'Orco R, Lumpkin CK, et al. 1991. Prohibitin, an evolutionarily conserved intracellular protein that blocks DNA synthesis in normal fibroblasts and HeLa cells. Molecular and Cellular Biology, 11(3): 1372-1381.
163. Schneider EL. 1991. Cutting the cost of aging. Issues in Science and Technology, National Academy of Science, 7(4): 47-49.
164. Singh NP, Danner DB, Tice RR, Pearson JD, Brant LJ, Morrell CH & Schneider EL. 1991. Basal DNA damage in individual human lymphocytes with age. Mutation Research, 256(1): 1-6.
165. Singh NP, Tice RR, Stephens RE & Schneider EL. 1991. A microgel electrophoresis technique for the direct quantitation of DNA damage and repair in individual fibroblasts cultured on microscopic slides. Mutation Research, 252(3): 289-296.
166. Schneider EL. 1992. The aging of the aged: Challenges for gerontology and geriatrics in the United States. Nippon Ronen Igakki Zasshi - Japanese Journal of Geriatrics, 29(4): 245-247.
167. Schneider EL. 1992. Biological theories of aging. Generations, 24: 7-10.
168. Schneider EL. 1992. The growth of gerontology and geriatrics in the United States. Nippon Ronen Igakki Zasshi - Japanese Journal of Geriatrics, 29(5): 381-384.
169. Berkman LF, Seeman TE, Albert M, Blazer D, Kahn R, Mohs R, Finch C, Schneider EL, Cotman C, McClearn G, Nesselrode J, Featherman D, Garmezy N, McKahn G, Brim G, Prager D & Rowe J. 1993. High, usual and impaired functioning in community-dwelling older men and women: Findings from the MacArthur Foundation research network on successful aging. Journal of Clinical Epidemiology, 46(10): 1129-1140.
170. Singh NP, Stephens RE. & Schneider EL. 1994. Modifications of alkaline microgel electrophoresis for sensitive detection of DNA damage. International Journal of Radiation Biology, 66(1): 23-28.
171. Yoshida T, Schneider EL & Mori N. 1994. Cloning of the rat Gadd45 cDNA and its mRNA expression in the brain [published erratum appears in Gene 166(2): 343-344]. Gene, 151(1/2): 253-255.
172. Reed D, Satariano WA, Gildengorin G, McMahon K, Fleshman R & Schneider E. 1995. Health and functioning among the elderly of Marin County, California: A glimpse of the future. Journal of Gerontology, 50(2): M61-M69.
173. Rowe JW & Schneider EL. 1995. Aging processes. In Abrams WB, Beers MH & Berkow R (eds.), The Merck manual of geriatrics (2nd ed.) (pp. 419-424). Whitehouse Station, NJ: Merck & Co., Inc.
174. Finch CE & Schneider EL. 1996. Biology of aging. In Bennett JC & Plum F (eds.), Cecil textbook of medicine (20th ed.) (pp. 12-15). Philadelphia: W.B. Saunders Co.
175. Yoshida T, Okazaki T, Hughes PE, Schneider EL, Mori N. 1996. Cloning of rat GADD45 gene and induction analysis following ionizing radiation in vivo. FEBS Letters, 380(1/2): 87-92.
176. Schneider EL. 1997. Will future elderly persons experience more years of disability? In Scharlach AE & Kaye LW (eds.), Controversial issues in aging, (pp. 209-220). Boston: Allyn & Bacon.
177. Schneider EL & Miller RA. 1998. Anti-aging interventions. In Tallis R, Fillit H & Brockelhurst JC (eds.), Brockelhurst's textbook of geriatric medicine and gerontology, (5th ed.) (pp. 193-198). New York: Churchill Livingstone.
178. Schneider EL. 1999. Aging in the third millenium. Science 283: 796-797.

179. Schneider EL. 2000. Distance education at the Ethel Percy Andrus Gerontology Center. Journal of Gerontology & Geriatrics Education, 20(4): 7-16.
180. Schneider EL, Henke M & Renold C. 2000. Targeting working professionals: A master's of arts in Gerontology. Information, Communication & Society, 3(4): 622-626.
181. Schneider EL. 2001. Ageing in the 21st century. Orgyn, XII(1).
182. Smith JR, Venable S, Roberts TW, Metter EJ, Monticone R & Schneider EL. 2002. Relationship between in vivo and in vitro aging: Assessment of 669 cell cultures derived from members of the Baltimore Longitudinal Study of Aging. Journal of Gerontology, 57A(6): B239-B246.
183. Schneider EL & Davidson L. 2003. Physical health and adult well-being. In Bornstein MH, Davidson L, Keyes CLM & Moore KA (eds.), Well-being: Positive development across the life course, (pp. 407-423). Mahwah, New Jersey: Lawrence Erlbaum Associates.

MEDIA APPEARANCES AND INTERVIEWS

Television Appearances

20/20	48 Hours
Primetime Live with Diane Sawyer	Larry King Live
Inside Edition	Sonia Live
ABC Good Morning America	CBS: "The Aging of America"
CBS Special Assignment Series: "Forever Young"	CNN (multiple interviews)
CBS Morning News	CBS Evening News
NBC Channel 4 News: "Sex and Aging"	BBC: "The Real World"
PBS: "The War on Aging"	Sixtysomething Series
Charles Kuralt	Charlie Rose
KQED	Channel 1
Senior Report (multiple)	

Newspaper Interviews

New York Times	Los Angeles Times
Wall Street Journal	Washington Post
USA Today	U.S. News and World Report

Magazine Interviews

Fortune
Forbes
Newsweek
Time
Health

Radio Interviews

National Public Radio
Michael Jackson Show
CBS Radio
KNX Radio