CURRICULUM VITAE

EDWARD L. SCHNEIDER, M.D. University of Southern California Andrus Gerontology Center 3715 McClintock Ave. Suite 231

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CURRENT POSITIONS

Professor of Gerontology, Leonard Davis School of Gerontology, University of Southern California (1986-present)

Professor of Medicine, Division of Geriatric, Hospital and General Internal Medicine,

Department of Medicine, Keck School of Medicine, University of Southern California (1987-1992)(2004 - present)

Chairperson, Los Angeles County Elder Abuse Forensic Center Advisory Board (2012 – present)

Visiting Faculty member, UCLA Annual Intensive Course in Geriatric Medicine (2006 - present)

Attending Staff Physician, Los Angeles County – USC Medical Center (2004 - present)

Professor of Biology, University of Southern California (1989-present)

Senior Advisor for Special Projects, Los Angeles Jewish Home for the Aging (2006 - present)

Member, Board of Directors, Los Angeles Foundation on Aging (2009 to present)

Member, Physician Advisory Board, Country Villa Health Services (2009 - present)

Consultant, Vi Living (2011- present)

Member, Board of Directors, Brandman Centers for Senior Care (2013 – present)

EDUCATION

M.D. Boston University School of Medicine, June 1966 (cum laude)

B.S. Rensselaer Polytechnic Institute, June 1961

OTHER POSITIONS

Dean, Leonard Davis School of Gerontology, University of Southern California (1986-2004) Executive Director, Ethel Percy Andrus Gerontology Center, University of Southern California (1986-2004)

William and Sylvia Kugel Professor of Gerontology, University of Southern California (1989- 2004)

Member, Board of Directors, Los Angeles Orthopedic Hospital (2009 - 2013)

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 (1985-1987)

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

Jan 1, 1989 - March 23, 2010 U.S. Public Health Service Inactive Reserve 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 Henry E. Bacon Oration, International Society of University Colon and Rectal Surgeons

- 1. Geriatrics & Gerontology International; International Editorial Board (2001-2008)
- 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. <u>AGE</u>; Associate Editor (1978-1984)
- 7. <u>Journal of Gerontology</u>; 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. HRSA Reviewer of Geriatric Leadership Academic Awards (2010)
- 2. Leadership Council of Los Angeles County Aging Organizations (LAOAC) (1996-2004)
- 3. Expert Advisory Task Force, Department of Aging, City of Los Angeles (1996-2002)
- 4. White House Conference on Aging (WHCoA), California Steering Committee (1994-1995)
- 5. Biology of Aging Program (BAP), Public Health Service Committee (January 25-27 1994)
- 6. National Council on the Aging/Travelers Geriatric Fellowship Program, Advisor (1981-1986)
- 7. NIH Cytopathology Study Section (1980)
- 8. Governor's Conference on Aging (Colorado), Advisory Committee (1980)
- 9. NIA Program Project Site Visit Teams (1978-1980)
- 10. NIA Professor Emeritus Committee, Chairman (1975-1979)
- 11. Public Health Service, Genetics Coordinating Committee (1977-1979)
- 12. EPA GENE-TOX, Committee on Sister Chromatid Exchanges (1979)

OTHER ACTIVITIES

Orthopedic Hospital of Los Angeles/UCLA

Chair, Executive Research Committee (2010 – present)

Chair, Search Committee for CEO and President (2011)

Consultant to KCET, (2008-2010)

Los Angeles Foundation on Aging, Board of Directors (2006 – present)

Alliance for Aging Research, Science Advisory Board (1989-present)

Center for Healthy Aging, Santa Monica, CA, Advisory Board (1996-2009)

University of Southern California

Dean's Advisory Group for University Advancement (1996-2004)

Search Committee for the Dean, School of Engineering, Chair (2000)

Search Committee for the Dean, School of Dentistry, Chair (1999-2000)

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)

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

AltaMed Health Services Corporation, Advisory Board (1992)

The French Foundation, National Advisory Board (1989-1992)

Foundation De France, Consultant (1987-1990)

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

Gerontological Society of America

Finance Committee (1978-1979, 1990)

Research, Education, and Practice Committee (1985-1988)

Personnel Committee (1975-1977)

Brookdale Foundation

Medical Advisory Board (1985-1989)

Brookdale Awards, Nominating Committee (1984-1986)

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)

BOOKS

- 1. Schneider EL (ed.). 1978. <u>The Aging Reproductive System</u>. New York: Raven Press. Schneider EL (ed.). 1978. <u>The Genetics of Aging</u>. New York: Plenum Press.
- 3. Reff ME & Schneider EL (eds.). 1982. <u>Biological Markers of Aging</u> (No. 82-2221). DHHS, NIH, PHS, NIH.
- 4. Finch CE & Schneider EL (eds.). 1985. <u>Handbook of the Biology of Aging</u> (2nd ed.). New York: Van Nostrand Reinhold Company, Inc.
- 5. Pullman B, Ts'o POP & Schneider EL (eds.). 1985. <u>Interrelationship Among Aging</u>, <u>Cancer and Differentiation</u>. Dordrecht, Holland: D. Reidel Publishing Compa ny.
- 6. Schneider EL, Wendland CJ, Zimmer AW, List N & Ory M (eds.). 1985. <u>The Teaching Nursing Home: A New Approach to Geriatric Research, Education, and Clinical Care</u>. New York: Raven Press.
- 7. Warner HB, Butler RN, Sprott RL & Schneider EL (eds.). 1987. <u>Modern Biological Theories of Aging Series, Vol. 31</u>. New York: Raven Press.
- 8. Jackson JS, Newton P, Ostfield A, Savage D & Schneider EL (eds.). 1988. <u>The Black American Elderly: Research on Physical and Psychosocial Health</u>. New York: Springer Publishing Company.
- 9. Scharlach AE, Lowe BF & Schneider EL (eds.). 1990. <u>Elder Care and the Work Force:</u> <u>Blue Print for Action</u>. Lexington, MA: Lexington Books.
- 10. Schneider EL & Rowe JW (eds.). 1990. <u>The Handbook of the Biology of Aging</u> (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. <u>A Secure Old Age: Financing Longterm Care</u>. New York: Springer Publishing Co.
- 13. Schneider EL & Miles E. 2003. <u>AgeLess: Take Control of Your Age and Stay Youthful For Life</u>. Emmaus, PA: Rodale Books.
- 14. Schneider EL & Hirschman, LA. 2006 What Your Doctor Hasn't Told You and the Health Store Clerk Doesn't Know: The Truth About Alternative Medicine and What Works. New York, NY: Avery Press.

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. <u>American Journal of Human Genetics</u>, 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. <u>Experimental Cell Research</u>, 69(2): 471-472.
- 6. Suzuki K, Schneider EL & Epstein, CJ 1971. In utero diagnosis of globoid cell leukodystrophy (Krabbe's Disease). <u>Biochemical and Biophysical Research</u> 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. <u>Journal of Pediatrics</u>, 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. <u>Interdisciplinary Topics in Gerontology</u>, 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. <u>Proceeding of the National Academy of Sciences of the United</u> 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. <u>Developments in Biological Standardization</u>, 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. <u>Tissue</u> 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. <u>Interdisciplinary Topics in Gerontology</u>, 9: 60-68.
- 39. Tice R, Schneider EL & Rary JM. 1976. The utilization of bromodeoxyuridine incorporation into DNA for the analysis of cellular kinetics. <u>Experimental Cell Research</u>, 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.), <u>DNA</u> 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. <u>Developmental Biology</u>, 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.), <u>The aging reproductive system</u> (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.), <u>The genetics of aging</u> (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. <u>Human Genetics</u>, 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. <u>Mutation Research</u>, 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.), <u>The genetics of aging</u> (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.), <u>The biology of aging</u> (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. <u>Birth Defects:</u> 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. <u>Human Genetics</u>, 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. <u>Proceedings of the National Academy of Sciences of the United States of America</u>, 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. <u>Nature</u>, 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. <u>Mutation Research</u>, 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. <u>Journal of Investigative Dermatology</u>, 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. <u>Mechanisms of Ageing and Development</u>, 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: Excerpa 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 phytohemag-glutinin. <u>Journal of Experimental Medicine</u>, 149(5): 1029-1041.

- 78. Tice R, Thorne P & Schneider EL. 1979. BISACK analysis of the phytohaemagglutinin-induced proliferation of human peripheral lymphocytes. <u>Cell and</u> 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. <u>Proceedings of the National Academy of Science of the United States of America</u>, 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. <u>Advances in Experimental Medicine and Biology</u>, 129:55-58.
- 83. Schneider EL. Aneuploidy and aging. 1980. In <u>Conference on Structural Pathology in DNA and the Biology of Aging</u>, (pp. 221-234). Deutsche Forschungsgemeinschaft Zentrallaboratorium für Mutagenitatsprufung, Boppard, Boldt.
- 84. Schneider EL. 1980. Cell biology. In <u>McGraw-Hill yearbook of science and technology</u> (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 <u>Conference on Structural Pathology in DNA and the Biology of Aging</u>, (pp. 96-107). Deutsche Forschungsgemeinschaft Zentrallaboratorium für 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. <u>Journal of Gerontology</u>, 36(4): 416-419.
- 94. Reff ME & Schneider EL. 1981. Cell culture aging. <u>Molecular and Cellular</u> 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.), <u>Biological Mechanisms in Aging</u>, 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.), <u>Aging: A challenge to science and social policy: Vol. 1.</u>, <u>Biology</u> (pp. 295-300). London: Oxford University Press.
- 97. Schneider EL. 1981. Cellular effects of age-related changes in DNA replication. In Florini J (ed.), <u>CRC handbook of biochemistry in aging</u> (pp. 9-24). Boca Raton, FL: CRC Press, Inc.
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Media Appearances and Interviews Television Appearances (selected) 20/20 Primetime Live with Diane Sawyer Inside Edition

48 Hours Larry King Live Sonia Live ABC Good Morning America

CBS Special Assignment Series: "Forever Young"

CBS Morning News

NBC Channel 4 News: "Sex and Aging"

PBS: "The War on Aging"

Charles Kuralt

KQED

Senior Report (multiple)

Newspaper Interviews (selected)

New York Times Wall Street Journal

USA Today

Magazine Interviews (selected)

Fortune Forbes Newsweek Time

U.S. News and World Report

CBS: The Aging of America CNN (multiple interviews)

CBS Evening News BBC: "The Real World" Sixtysomething Series

Charlie Rose Channel 1

Showtime (03/04)

Los Angeles Times Washington Post

Radio Interviews (selected)

National Public Radio Michael Jackson Show

CBS Radio