

**Jan 8 2021**  
**CALEB E. FINCH, PH.D.**  
**University of Southern California**  
**Andrus Gerontology Center**  
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**Birthdate:** July 4, 1939  
**Nationality:** U.S.A.

**Birthplace:** London, England

**MAJOR INTEREST:** Genomic control of mammalian development and aging

#### **EDUCATION**

B.S. Biophysics; Yale University, New Haven, Connecticut; 1961  
Ph.D. Cell Biology; Rockefeller University, New York, New York; 1969

#### **APPOINTMENTS**

- Guest Investigator, Rockefeller University; 1969-1970
- Assistant Professor of Anatomy, Cornell University Medical College; 1970-1972
- Assistant Professor of Gerontology and Biological Sciences, USC; 1972-1975
- Associate Professor of Gerontology and Biological Sciences, USC; 1975-1978
- Professor of Gerontology and Biological Sciences, USC; 1978-present
- Adjunct Professor of Neurology and Physiology and Biophysics; 1978-1999
- Visiting Associate, California Institute of Technology; 1983-1984
- ARCO and William F. Kieschnick Professor in the Neurobiology of Aging; 1985-present
- University Professor of USC, 1989-present
- Professoriates in the Dornsife USC College: Anthropology, Molecular biology, Neurobiology, and Psychology. Tenured voting member of Molecular Biology and Neurobiology.

#### **SPECIAL GRANT AWARDS**

Public Health Service Post-doctoral Fellowship; 1969-1971  
P.I., Aging and Disability Resource Center (ADRC) of LA and Orange Counties (AG-05142); 1983-2003; coPI and coDir, 2003-  
P.I., Leadership Award in Alzheimer Disease (AG-07909); 1988-1995

## **HONORS**

- Gerontological Society of America, Fellow; 1975
- Robert W. Kleemeier Award of the Gerontological Society of America; 1985
- Brookdale Foundation Award for Distinguished Contributions to Gerontology through Research in Biology; 1985
- AAAS, Fellow; 1987
- Allied-Signal Inc. Award for Achievement in Biomedical Research on Aging; 1988
- Alzheimer's Association of Los Angeles Research Award; 1989
- Arthur Cherkin Memorial Award (UCLA); 1991
- American Aging Association Research Award, 1994
- Sandoz Prize, Premier Award of the International Association of Gerontology; 1995
- IPSEN Foundation Prize for Research on Longevity (Paris); 1996
- Institute for Advanced Studies on the Immunology of Aging (IASIA), Leadership Award in Communications; 1996
- American Federation of Aging Research, Irving Wright Award; 1999
- American Aging Association, 1999 research Award and Harmon Lecture; 1999
- Pioneer Award 2004, Alzheimer's Association of Los Angeles County
- Doctorate *Honaris causis*, June 2018, École Pratique des Hautes Études (EPHE).

## **USC Awards**

- USC Associates Award for Creativity in Research, 1985
- Professor of the Year, 2008, Leonard Davis School of Gerontology Student Association,
- Phi Kappa Phi USC Faculty Award 2009 for "The Biology of Human Longevity"
- Phi Kappa Phi, inducted as member 2011, USC
- USC Presidential Medallion, April 2012
- Phi Kappa Phi, Lifetime Achievement Award, 2013
- Longevity Prize 2014, Davis School of Gerontology, Special Lectureship
- USC Faculty Recognition Honoree, Jan 30 2019, University Club
- The Ethel Percy Andrus Prize 2019 (awarded Jan 15, 2020)

### **Invited lectureships since 1986**

- Johns Hopkins B University of Maryland Lectureship in Reproductive Biology; November 1987
- Wellcome Foundation Visiting Professor, Mt. Sinai Medical School; February 1987
- Kathleen Osborn Memorial Lecturer, U Kansas Medical Center, Dept Physiology; October 1991
- David B Tyler Memorial Lecturer, U South Florida, Dept Pharmacology; 1992
- 39th Swarmerdam Lecturer, University of Leiden; June 1992
- President's Guest Lecturer, American Fertility Society; December 1992
- Sigiloff Memorial Lecture, Department of Veteran Affairs, Los Angeles; April 1992
- Sigma Tau Foundation Lectureship, Rome, Italy; December 1992
- Bennett J. Cohen Memorial Lecturer, Institute of Gerontology, U Michigan; February 1993
- Joslyn Lectureship, University of California, Irvine, Department of Medicine; February 1993
- Wellcome Foundation Visiting Professor, University of Idaho; February 1995
- American Association of Geriatric Psychiatrists, President's Guest Lecturer; June 1996
- National Institute of Environment and Health Sciences, Distinguished Lecturer; October 1999
- U Rochester, Plenary Lecture at Killian Schmidt Symposium; October 2000
- Brookhaven Nat Labs, Distinguished Speaker: Puzzles & paradoxes of aging; Nov 2001
- Plenary Speaker, Third Leonard Berg Symposium, Washington U, St. Louis; Feb 8, 2002
- Plenary Speaker, Gordon Conference in the Biology of Aging, Ventura CA; January 15, 2003
- Visiting Distinguished Speaker, Dept Pathology Johns Hopkins School of Medicine; July 2004
- Robert Kohn Lecturer, Case Western Reserve University; November 2005
- George Maddox Lecturer, Duke University; March 2006
- Carl Franklin Lecture, USC; February 2007
- Darwin Lecture, Northwestern University; February 2007
- Hayflick Lecture, University of Alabama; April 2007
- Walford Lecturer, UCLA; April 2008
- Visiting Distinguished Professor, Southern Illinois University School of Medicine; April 2009
- Plenary Lecture, NIH Workshop on Systems Aging, Sante Fe Institute; August 2009
- Plenary Lecture, Longevity Consortium, La Jolla; December 2009
- Plenary Lecture, European Congress of Biogerontology, Palermo; October 2010
- Plenary Lecture, 5th Symposium on Engineering Negligible Senescence. Queens' College, Cambridge UK; August 30, 2011
- Plenary Lecture, DOHAD Conference, Portland OR; Sept 19, 2011
- Vincent Cristofalo Lectureship, Wistar Institute, Philadelphia; December 2013
- Tulane Center for Aging, Distinguished Lecture in Aging; March 20, 2014
- , UCSF Dept Geriatrics, Grand Rounds; August 18, 2015
- USC Neuroscience Graduate Program Plenary Speaker; September 2016
- Henry Stewart Talks, Biomedical & Life Sciences Collection; May 31, 2016.
- Cedars-Sinai Hospital Los Angeles, Dept Endocrinology; January 06, 2017
- Brown U, Eric Davidson Memorial Symposium, Plenary Speaker; January 25, 2017
- U Wisconsin, Center for Demography in Health and Aging; May 11, 2017
- IAGG San Francisco: Chair, Symposium Air Pollution and Dementia; July 27-29, 2017
- Sante Fe Institute, Harold Morowitz Symposium, Plenary speaker; August 12, 2017
- Alzheimer Center Finch Symposium; December 07, 2017
- Society of Toxicology, Plenary Speaker; March 09, 2018
- Alzheimer Centers of Michigan, Wayne State U, Detroit, Plenary Speaker; May 07, 2018
- Buck Institute, Plenary Speaker, Graduate Student Symposium, April 3, 2019
- AFAR Glenn Foundation Annual Symposium, June 3, 2019.

### **Invited lectureships continued**

- \* National Academy of Science: Integrating the Science of Aging workshop, June 9-10, 2020
- Wayne State University, Sept 17, 2020
- NIH: Environmental Neuroscience Workshop: Advancing the Understanding of How Chemical Exposures Impact Brain Health and Disease June 25, 2020
- NIA: AD Exposome, Dec 02-03, 2020.

### **OTHER MAIN ACTIVITIES**

- Principal Investigator (Founding) and Co-Director, Alzheimer's Disease Research Center Consortium of Los Angeles and Orange Counties (NIA); 1983-present
- Associate Director for Neurogerontology, Research Institute of the Andrus Gerontology Center; 1984-1989
- Cell Biology Study Section (NIH); 1975-1978
- Neuroscience Study Section (NIH); ad hoc 3/80
- Chairman, Gordon Research Conference on Aging; 1982
- Committee on Life-Course Perspectives, Social Science Research Council; 1979-1986
- Advisory Panel, Impact of Technology on Aging, U.S. Congress, Office of Technological Assessment; 1982-1984
- Technical Committee, White House Conference on Aging; 1981
- Panel on Reproductive and Developmental Toxicology, Committee on Biological Markers, National Research Council; 1986-1988
- Membership-Fellowship Comm. Biological Sci. Sect., Gerontology Society of America; 1990-92
- Program on Successful Aging, MacArthur Foundation; 1984-1996
- President, Directors of NIA-Alzheimer's Centers; 1988-1990
- National Advisory Council on Aging (NACA; "NIA Council"), 1990-1993
- Chair, Biological Section, Gerontological Society of America; 1992
- Scientific Advisory Board, Alzheimer Association (National); 1987-1989, 1993-1996
- Initial Review Board of the Scientific Advisory Council, Alzheimer Association; 1997-
- Steering Committee for German-American Academic Council (GAAC) for German-American Young Scholars Institutes, Social Sciences Research Council; 1995-1999
- Co-Chair, Committee on Biodemography of Aging, National Research Council; 1995-1996
- Chair, Workshop on Bioindicators of Aging, National Research Council; 1999-2000
- Board of Scientific Advisors, Foundation for Comparative and Conservation Biology, Rockville MD; 1999-2010
- The National Academies Keck Futures Initiative Healthspan Steering Committee, 2006-2007
- Cure Alzheimer Fund (CAF), Scientific Advisory Board, 2011-present
- Advancing Biodemography, Steering Committee, National Research Council Committee, 2013-2014
- LLFS-OSMB, Long-lived Family Study, Observational Study Monitoring Board (NIA), 2017-present
- AFAR National Scientific Advisory Council (NSAC) 2010-2021.
- NIH grant reviewer, ad hoc Biostatistical Methods and Research Design (BMRD), 21.07.2020.

## **EDITORIAL BOARDS**

Aging Cell, 2001-2006  
Annual Review of Aging Research; 1986-1990  
Comparative and Evolutionary Neurobiology; 1999-2001  
Current Translational Geriatrics and Experimental Gerontology Reports, 2011-  
Critical Reviews in Neurobiology; 1996-1999  
Growth, Development, and Aging; 1988-2000  
Experimental Gerontology; 1998-2006  
Experimental Neurology; 1997-2001  
Journal of Gerontology; 1978-1988  
Journal of Developmental Origins of Health and Disease, 2009-2012  
Mechanisms of Aging and Development; 1972-1966, 2000-2001  
Metabolic Brain Disease; 1986-1991  
Neurobiology of Aging; 1980-2005  
Neurodegeneration; 1992-1997  
Synapse; 1992-2004  
The ScientificWorldJOURNAL, 2009-2015

## **SCIENTIFIC SOCIETIES**

AAAS (Fellow, 1987)  
Endocrine Society  
Gerontological Society of America (Fellow, 1975)  
Neuroendocrine Society  
Psychogeriatric Society  
Psychoneuroendocrine Society  
Society for Neuroscience  
Society for Study of Reproduction

## **NATIONAL SCIENTIFIC ADVISORY BOARDS**

Alzheimer's Disease and Related Disorders Association; 1984-1987  
Alliance for Aging Research; 1987-present  
American Foundation for Aging Research; 1986-present  
John Douglas French Foundation for Alzheimer's Disease; 1984-1987  
National Institute on Aging, Council Member; 1987-1990  
Advisory Committee to the Director, National Institute of Health; 1987-1990  
Task Force on Aging Research (NIH), Scientific Consultant; 1992  
Ellison Medical Foundation, Scientific Review Board, 2006-2010  
Cure Alzheimers Fund (CAF) Board, 2008-

## BOOKS

### **BOOKS AUTHORED**

- Finch CE. (1970). Cellular Activities During Aging in Mammals. Ph.D. dissertation, The Rockefeller University, New York. New York: MSS Information Corporation. ISBN: 978-0842270267.
- Finch CE. (1990). Longevity, Senescence, and the Genome. Chicago: University of Chicago Press. 2nd printing, 1994. ISBN: 978-0226248899.
- Ricklefs R, Finch C. (1995). Aging: A Natural History. Scientific American Library Series. New York: Freeman Press. ISBN: 78-0716750567. Translations: German (Altern: Evolutionsbiologie und medizinische Forschung. Spektrum Akademischer Verlag, 1997); Dutch. (Nederlandse uitgave: Natuur and Techniek, 1997); Italian. (Zanichelli Editore, 1999); Japanese. (Tuttle-More, 1996); Korean. (1999).
- Finch CE, Kirkwood TBL. (2000). Chance, Development, and Aging. Oxford: Oxford University Press. ISBN: 978-0195133615.
- Finch CE. (2007). The Biology of Human Longevity: Nutrition, Inflammation, and Aging in the Evolution of Lifespans. San Diego: Academic Press. hardcover ISBN: 9780123736574; eBook ISBN: 9780080545943.
- Finch CE. (2018). Global Air Pollution in Aging and Disease: Reading Smoke Signals. San Diego: Academic Press. ISBN: 978-0128131022.

### **BOOKS EDITED**

- Finch CE, Hayflick L. (1977). Handbook of the Biology of Aging. New York: Van Nostrand. ISBN: 978-0442208066.
- Adelman AC, Finch CE, Gibson D. (1978). Development of the Rodent as a Model for Aging II. New York: Raven Press.
- Behnke JA, Finch CE, Moment GB. (1978). The Biology of Aging. New York: Plenum Press.
- Finch CE, Potter DE, Kenny AD. (1978). Parkinson's Disease II: Aging and Neuroendocrine Relationships. New York: Plenum Press. ISBN: 978-1468488951.
- Cherkin A, Finch CE, Kharasch N, Makinodan T, Scott FL, Strehler BL. (1979). Physiology and Cell Biology of Aging. (Aging, Vol. 8). New York: Raven Press.
- Finch CE, Schneider EL. (1985). Handbook of the Biology of Aging. 2nd Ed. New York: Van Nostrand. ISBN: 978-0442225292.
- Davies P, Finch CE. (1987). Molecular Neuropathology of Aging. Banbury Report, No. 27. Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press. ISBN: 978-0879692278.
- Finch CE, Davies P. (1988). Molecular Biology of Alzheimer's Disease. Current Communications in Cell and Molecular Biology. Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press. ISBN: 978-0879693190.
- Finch CE, Johnson TE. (1990). Molecular Biology of Aging. UCLA Symposia on Cellular and Molecular Biology, New Series, Vol. 123. New York: Wiley-Liss. ISBN: 978-0471567219.
- Rothstein M, Adler WH, Cristofalo VJ, Finch CE, Florini JR, Martin GM. (1990). Review of Biological Research in Aging. Volume 4. New York: Wiley-Liss. ISBN: 978-0471566977
- Hazzard DG, Warner HR, Finch CE. (1991). NIH Workshop on Alternate Animal Models for Research on Aging (Dec. 1989). Exp Gerontol. 26.
- Rose MR, Finch CE. (1993). Genetics of Aging, Genetica (Special Issue). 91.
- Rose MR, Finch CE. (1994). Genetics in the Evolution of Aging. (Contemporary Issues in Genetics and Evolution.) Amsterdam: Kluwer Academic Publishers. ISBN: 978-0792329022.
- Maddox C, Finch CE, et al. (1995). Encyclopedia of Aging: A Comprehensive Resource in Gerontology and Geriatrics. 2nd ed. New York: Springer Publishing. ISBN: 0826148417

- Wachter K, Finch CE. (1997). Between Zeus and the Salmon: The Biodemography of Longevity. Washington, DC: National Academy of Sciences. ISBN: 978-0309057875
- Finch CE. (1999). Clusterin in Normal Brain Functions and During Neurodegeneration. Austin, TX: Landes Bioscience Publishers. ISBN: 978-1570595837.
- Finch CE, Austad SN. (2001). Slowly Aging Organisms. Exp Gerontol (Special Issue, 4-6). 36.
- Finch CE, Vaupel J, Kinsella K, Committee on Population, National Research Council. (2001). Cells and Surveys: Should Biological Measures be Included in Social Sciences Research?, Washington, DC: National Academy of Sciences. ISBN: 978-0309071994. PMID: 2316696; NBK110048.
- Finch CE, Robine, JM, Christen, Y. (2003). Brain and Longevity. (Research and Perspectives in Longevity.) New York: Springer. ISBN: 978-3540439585.
- Holmes DJ, Ottinger MA, Ricklefs RE, Finch CE. (2003). Proceedings of the Second Symposium on Organisms with Slow Aging (SOSA-2). Exp Gerontol. 38.

## PUBLICATIONS

### 1961

1. Forro F, Finch CE. (1961). DNA organization and replication in bacillus subtilis. Abstracts, Fifth Annual Meeting of the Biophysical Society, February 16, 1961, St. Louis, Missouri. (TA6). Biophys J. 1(Suppl):i5.

### 1966

2. Finch CE. (1966). Changes in alpha-2 macroglobulin during malaria in the duckling. Proc Soc Exp Biol Med. 123:562-565.

### 1969

3. Finch CE. (1969). Cellular Activities During Aging in Mammals. Ph.D. dissertation, The Rockefeller University, New York. New York: MSS Information Corporation. ISBN: 978-0842270267
4. Finch CE, Foster JR, Mirsky AE. (1969). Aging and the regulation of cell activities during exposure to cold. J Gen Physiol. 54:690-712. PMID: 4391050; PMC2225950.
5. Finch CE, Huberman HS, Mirsky AE. (1969). Regulation of liver tyrosine aminotransferase by endogenous factors in the mouse. J Gen Physiol. 54:675-689. PMID: 4391049; PMC2225954.

### 1971

6. Finch CE. (1971). Comparative biology of senescence: Evolutionary and developmental considerations. In: Animal Models for Biomedical Research IV. (Institute of Laboratory Animal Resources, Animal College of Laboratory Animal Medicine). Washington, DC: National Academy of Science, p. 47-67.

### 1972

7. Finch CE. (1972). Cellular pacemakers of ageing in mammals. In: Proc 1st Conference on Cell Differentiation, (Nice, France, 1971). (Harris R, Viza D, eds.). Copenhagen, Denmark: Munksgaard, p. 259-262.
8. Finch CE. (1972). Enzyme activities, gene function and ageing in mammals (Review). Exp Gerontol. 7:53-67. PMID: 4402173.
9. Paparo A, Finch CE. (1972). Catecholamine localization, content, and metabolism in the gill of two lamellibranch mollusks. Comp Gen Pharm. 3:53-67. PMID: 4665934.

### Abstracts 1972

1. Finch CE. (1975). Effects of aging on catecholamine metabolism. (Clinical Medicine). Gerontologist. 12(3 Part 2):45.
2. Finch CE. (1972). The brain as a site for cellular pacemakers of aging. In: 9th International Congress of Gerontology, July 2-7, 1972, Kiev, USSR. Vol. I. (Chebotarev DF, Frol'kis VV, Mints AI, eds.). Kiev: International Association of Gerontology, p. 100-101.

### 1973

10. Chaconas G, Finch CE. (1973). The effect of ageing on RNA/DNA ratios in brain regions of the C57BL/6J male mouse. J Neurochem. 21:1469-1473. PMID: 4771440.
11. Finch CE. (1973). Catecholamine metabolism in the brains of ageing male mice. Brain Res. 52:261-276. PMID: 4700706.



12. Finch CE. (1973). Monoamine metabolism in the aging male mouse. In: Development and Aging in the Nervous System. (Rockstein M, ed.). New York: Academic Press, p. 192-218.
13. Finch CE. (1973). Retardation of hair growth, a phenomenon of senescence in C57BL/6J male mice. J Gerontol. 28:13-17. PMID: 4683195.
14. Finch CE, Foster JR. (1973). Hematologic and serum electrolyte values of the C57BL/6J male mouse in maturity and senescence. Lab Animal Sci. 23:339-349. PMID: 4351468
15. Mays LL, Borek E, Finch CE. (1973). Glycine N-methyltransferase is a regulatory enzyme which increases in ageing animals. Nature. 243:411-413. PMID: 4743634.

#### **1974**

16. Finch CE, Girgis FG. (1974). Enlarged seminal vesicles of senescent C57BL/6J mice. J Gerontol. 29:134-138. PMID: 4811948.
17. Gordon SM, Finch CE. (1974). An electrophoretic study of protein synthesis in brain regions of senescent male mice. Exp Gerontol. 9:269-273. PMID: 4442479.
18. Rizer RL, Orentreich N, Finch CE. (1974). Testosterone metabolism in human scalp and beard hair follicles. Chapter 30. In: The First Human Hair Symposium. (Brown AC, ed.). New York: Medcom Press, p. 346-362.

#### **Abstracts 1974**

- 1 Finch CE, Jonec V. (1974). Properties of synaptosomes from senescent mice. (Neurobiology). Gerontologist. 14(5 Part 2):45.

#### **1975**

19. Finch CE. (1975). Aging and the regulation of hormones: A view in October 1974. In: Explorations on Aging. (Adelman RC, et al., eds.). New York: Plenum Press. Adv Exp Med Biol. 61:229-238. PMID: 170809.
20. Finch CE. (1975). Aging research: some personal thoughts. Current Topics. (Guest editorial). Human Path. 6:1. PMID: 1110079.
21. Finch CE. (1975). Neuroendocrinology of aging: A view of an emerging area. Bioscience. 25:645-650.
22. Finch CE, Jonec V, Hody G, Walker JP, Morton-Smith W, Alper A, Dougher GJ. (1975). Aging and the passage of L-tyrosine, L-DOPA and insulin into mouse brain slices in vitro. J Gerontol. 30:33-40. PMID: 1109390.
23. Hody G, Jonec V, Morton-Smith W, Finch CE. (1975). Norepinephrine uptake by the myocardium of the senescent mouse in vitro. J Gerontol. 30:275-278. PMID: 1120889.
24. Jonec V, Finch CE. (1975). Ageing and dopamine uptake by subcellular fractions of the C57BL/6J male mouse brain. Brain Res. 91:197-215. PMID: 1164671.
25. Nelson FJ, Latham KR, Finch CE. (1975). Plasma testosterone levels in C57BL/6J male mice: Effects of age and disease. Acta Endocrinol. 80:744-752. PMID: 1103542.
26. Osterburg HH, Allen JK, Finch CE. (1975). The use of ammonium acetate in the precipitation of ribonucleic acid. Biochem J. 147:367-368. PMID: 1180897.

#### **Abstracts 1975**

1. Holinka CF, Nelson JF, Finch CE. (1975). Effect of estrogen treatment on estradiol binding capacity in uteri of aging rats. Gerontologist. 15(5 Part 2):30.

#### **1976**

27. Finch CE. (1976). Alfred Ezra Mirsky, October 17, 1900-June 19, 1974. Obituaries. Genetics. 83(Pt. 1 Suppl):S124-S125. PMID: 783002.

28. Finch CE. (1976). Biological theories of aging. Chapter 8. In: Nursing and the Aged. (Burnside IM, ed.). New York: McGraw-Hill, p. 92-98.
29. Finch CE. (1976). Cell differentiation, extrinsic factors and aging. Interdiscipl Topics Gerontol. 9:8-15.
30. Finch CE. (1976). Endocrine and neural factors of reproductive aging: A speculation. In: Neurobiology of Aging. (Terry RD, Gershon S, eds.). New York: Raven Press, p. 335-338.
31. Finch CE. (1976). *Intrinsic mutagenesis: A genetic approach to ageing*. (Burnet M). (Book review). Q Rev Biol. 51:119.
32. Finch CE. (1976). Supracentenarians. (*The Centenarians of the Andes*, Davies D). (Book review). BioScience. 27:54.
33. Finch CE. (1976). *The physiology and pathology of human aging*, (Goldman R, Rockstein M, Sussman ML). (Book review). Q Rev Biol. 51:558.
34. Finch CE. (1976). The regulation of physiological changes during mammalian aging. Q Rev Biol. 51:49-83. PMID: 6991.
35. Latham KR, Finch CE. (1976). Hepatic glucocorticoid binders in mature and senescent C57BL/6J male mice. Endocrinology. 98:1480-1489. PMID: 1278113
36. Nelson JF, Holinka CF, Latham KR, Allen JK, Finch CE. (1976). Corticosterone binding in cytosols from brain regions of mature and senescent male C57BL/6J mice. Brain Res. 115:345-351. PMID: 974752.

#### **Abstracts 1976**

1. Nelson JF, Holinka CF, Finch CE. (1976). Age related changes in estradiol binding capacity of mouse uterine cytosol. In: Program of the Gerontological Society Annual Meeting, 29th, New York, 1976. Washington, DC: Gerontological Society, p. 34.
2. Nelson JF, Holinka CF, Finch CE. (1976). Loss of cytoplasmic estradiol binding capacity during aging uteri of 57/6 [C57BL/6J] mice. Proc Endocrinol Soc. 349.

#### **1977**

37. Finch CE. (1977). Endocrine and neural factors of reproductive senescence in rodents. Chapter 24. In: The Molecular Biology of the Mammalian Genetic Apparatus. (Ts'o P, ed.). New York: Elsevier/N-Holland Biomed Press, p. 304-312.
38. Finch CE. (1977). Guest editorial. (On health status of subjects used in aging research). J Gerontol. 32:257.
39. Finch CE. (1977). Neuroendocrine and autonomic aspects in aging mammals. Chapter 11. In: Handbook of the Biology of Aging. (Finch CE, Hayfleck L, eds.). New York: Van Nostrand, p. 262-280.
40. Finch CE. (1977). Response to comments by HT Blumenthal. Letters to the Editor. J Gerontol. 32:642.
41. Finch CE, Flurkey K. (1977). The molecular biology of estrogen replacement. Contemp Ob Gyn. 9:97-107.
42. Finch CE, Jonec V, Wisner JR Jr, Sinha YN, de Vellis JS, Swerdloff RS. (1977). Hormone production by the pituitary and testes of male C57BL/6J mice during aging. Endocrinology. 101:1310-1317. PMID: 332494.
43. Holinka CF, Finch CE. (1977). Age-related changes in the decidual response of the C57BL/6J mouse uterus. Biol Reprod. 16:385-393. PMID: 843564.
44. Holinka CF, Hetland MD, Finch CE. (1977). The response to a single dose of estradiol in the uterus of ovariectomized C57BL/6J mice during aging. Biol Reprod. 17:262-264. PMID: 911382.

## **Abstracts 1977**

1. Holinka CF, Finch CE. (1977). Age-related changes in the decidual response of the C57BL/6J mouse uterus. (H). Gerontologist. 17(5 Part 2):75.
2. Nelson JF, Felicio LS, Sims C, Finch CE. (1976). Age-related changes in the estrus cycle of the C57BL/6J mouse. (N). Gerontologist. 17(5 Part 2):103.

## **1978**

45. Finch CE. (1978). Age-related changes in brain catecholamines: A. Synopsis of findings in C57BL/6J mice and other rodent models. In: Parkinson's Disease II: Aging and Neuroendocrine Relationships. (Finch CE, ed.). New York: Plenum Press. Adv Exp Med Biol. 113:15-39. PMID: 380283.
46. Finch CE. (1978). Endocrine, reproductive, neural functions and drug responses in aging mice. In: Development of the Rodent as a Model System in Aging II. (Adelman RC, et al., eds.). New York: Raven Press, p. 45-55.
47. Finch CE. (1978). Genotypic influences on female reproductive senescence in rodents. In: Genetics and Aging. (Bergsma S, Harrison DE, eds.). New York: The National Foundation. Birth Defects Orig Artic Ser. 14:335-354. PMID: 343828.
48. Finch CE. (1978). Neurochemical and neuroendocrine changes during aging in rodent models. In: Alzheimer's Disease: Senile Dementia and Related Disorders, (Aging, Vol. 7). (Katzman R, et al., eds.). New York: Raven Press, p. 461-468.
49. Finch CE. (1978). Reproductive senescence in rodents: Factors in the decline of fertility and loss of regular estrous cycles. In: The Aging Reproductive System, (Aging, Vol. 4). (Schneider EL, ed.). New York: Raven Press, p. 193-212.
50. Finch CE. (1978). The brain and aging. Chapter 19. In: A New Look at the Biology of Aging. (Behnke JA, et al., eds.). New York: Plenum Press, p. 301-309.
51. Holinka CF, Finch CE. (1978). Dextral bias in the induced decidual response after ovariectomy and in implantation sites in the C57BL/6J mouse uterus. Biol Reprod. 18:418-420. PMID: 667248.
52. Holinka CF, Tseng Y-C, Finch CE. (1978). Prolonged gestation, elevated preparturitional plasma progesterone and reproductive aging in C57BL/6J mice. Biol Reprod. 19:807-816. PMID: 570431.
53. Kaplan BB, Schachter BS, Osterburg HH, deVellis JS, Finch CE. (1978). Sequence complexity of polyadenylated RNA obtained from rat brain regions and cultured rat cells of neural origin. Biochemistry. 17:5516-5524. PMID: 728411.

## **1979**

54. Finch CE. (1979). Neuroendocrine mechanisms and aging. Fed Proc. 38:178-183. PMID: 33068.
55. Finch CE. (1979). Perspectives in biomedical research on aging. In: Aging: Research and Perspective; A Briefing for the Press, (Columbia Journalism Monograph No. 3, (Graduate School of Journalism). (Goldstein KK, et al., eds.). New York: Columbia University, p. 19-25.
56. Finch CE. (1979). Studies on hormonal regulation of target cell response in the aging C57BL/6J mouse. In: Physiology and Cell Biology of Aging, (Aging, Vol. 8). (Cherkin A, et al., eds.). New York: Raven Press, p. 71-86.
57. Finch CE. (1979). Susceptibility of mouse liver DNA to digestion by S1 nuclease: Absence of age-related change. Age. 2:45-46.
58. Holinka CF, Tseng Y-C, Finch CE. (1979). Impaired preparturitional rise of plasma estradiol in aging C57BL/6J mice. Biol Reprod. 21:1009-1013. PMID: 526498.

59. Holinka CF, Tseng Y, Finch CE. (1979). Reproductive aging in C57BL/6J mice: Plasma progesterone, viable embryos and resorption frequency throughout pregnancy. Biol Reprod. 20:1201-1211. PMID: 476251.
60. Masuoka DT, Jonsson G, Finch CE. (1979). Aging and unusual catecholamine-containing structures in the mouse brain. Brain Res 169:335-341. PMID: 445161.
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