

**Oct 13, 2011**  
**CALEB E. FINCH, PH.D.**  
**University of Southern California**  
**Andrus Gerontology Center**  
**Los Angeles, California 90089-0191**  
**(213) 740-1758 phone / (213) 740-0853 fax / [cefinch@usc.edu](mailto:cefinch@usc.edu)**

**Birthdate:** July 4, 1939

**Birthplace:** London, England

**Nationality:** U.S.A.

**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

1. Assistant Professor of Anatomy, Cornell University Medical College; 1970-1972
2. Assistant Professor of Gerontology and Biological Sciences, USC; 1972-1975
3. Associate Professor of Gerontology and Biological Sciences, USC; 1975-1978
4. Professor of Gerontology and Biological Sciences, USC; 1978-present
5. Adjunct Professor of Neurology and Physiology and Biophysics; 1978-present
6. Visiting Associate, California Institute of Technology; 1983-1984
7. ARCO and William F. Kieschnick Professor in the Neurobiology of Aging,; 1985-
8. University Professor of USC; 1989
9. Professor in the USC College of Anthropology, Molecular biology, Neurobiology, and Psychology

### **SPECIAL GRANT AWARDS**

Public Health Service Post-doctoral Fellowship; 1969-1971

P.I., 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  
USC Associates Award for Creativity in Research; 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  
Research Award of the American Aging Association; 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,  
School of Gerontology Student Association, Professor of the Year, 2008.  
Phi Kappa Phi

USC Faculty Award 2009 for "The Biology of Human Longevity"

Phi Kappa Phi, inducted as member 2011, USC

- \* Johns Hopkins B University of Maryland Lectureship in Reproductive Biology; Nov. 1987
- \* Wellcome Foundation Visiting Professor, Mt. Sinai Medical School; Feb. 1987
- \* Kathleen Osborn Memorial Lecturer, U Kansas Medical Center, Dept Physiology; Oct. 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; Dec. 1992
- \* Sigiloff Memorial Lecture, Department of Veteran Affairs, Los Angeles; April 1992
- \* Sigma Tau Foundation Lectureship, Rome, Italy; Dec 1992
- \* Bennett J. Cohen Memorial Lecturer, Institute of Gerontology, U Michigan; Feb 1993
- \* Joslyn Lectureship, University of California, Irvine, Department of Medicine; Feb 1993
- \* Wellcome Foundation Visiting Professor, University of Idaho; Feb 1995
- \* American Association of Geriatric Psychiatrists, President's Guest Lecturer; June 1996
- \* National Institute of Environment and Health Sciences, Distinguished Lecturer; Oct 1999
- \* U of Rochester, Plenary Lecture at Killian Schmidt Symposium; Oct 2000
- \* Distinguished Speaker, Brookhaven Nat Labs: Puzzles & paradoxes of the aging process; Nov 2001
- \* Plenary Speaker, Third Leonard Berg Symposium, Washington University, St. Louis; Feb 8, 2002
- \* Plenary Speaker, Gordon Conference in the Biology of Aging, Ventura CA, Jan 15 2003
- \* Visiting Distinguished Speaker, Dept Pathology Johns Hopkins School of Medicine, July 2004
- \* Robert Kohn Lecturer, Case Western Reserve University, Nov 2005
- \* George Maddox Lecturer, Duke University, March 2006.
- \* Carl Franklin Lecture, USC, Feb 2007

- \* Darwin Lecture, Northwestern University, Feb 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, Dec 2009.
- \* Plenary Lecture, European Congress of Biogerontology, Palermo, Oct 2010
- \* Plenary Lecture, 5th Symposium on Engineering Negligible Senescence. Queens' College, Cambridge UK Aug 30 2011
- \* Plenary Lecture, DOHAD (Developmental Origins of Adult Health and Disease) Conference, Portland OR, Sept 19, 2011

### **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
- \* Chair, Biological Section, Gerontological Society of America; 1992
- \* Scientific Advisory Board, Alzheimer Association (National); 1987-89, 1993-96
- \* 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; 1995-96
- \* Chair, Workshop on Bioindicators of Aging, National Research Council; 1999-2000
- \* Board of Scientific Advisors, Foundation for Comparative and Conservation Biology, Rockville MD; 1999-present
- \* The National Academies Keck Futures Initiative Healthspan Steering Committee, 2006-7.

### **EDITORIAL BOARD EDITORIAL BOARDSEEDITORIAL 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-  
Experimental Gerontology; 1998-2006  
Experimental Neurology; 1997-2001  
Journal of Gerontology; 1978-1988  
Journal of Developmental Origins of Health and Disease, 2009-  
Mechanisms of Aging and Development; 1972-1966, 2000-  
Metabolic Brain Disease; 1986-1991  
Neurobiology of Aging; 1980-  
Neurodegeneration; 1992-1997  
Synapse; 1992-2004  
The ScientificWorldJOURNAL., 2009-

### **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  
CureAlzheimers Board, 2008-

### **BOOKS**

1. Finch CE (1990) Longevity, Senescence, and the Genome. University of Chicago Press. Second printing, 1994.
2. Ricklefs R, Finch C (1995) Aging: A Natural History. Scientific American Library Series. New York: Freeman Press. Translations: German (Spektrum Akademischer Verlag, 1997); Dutch (Nederlandse uitgave: Natuur and Techniek, 1997); Italian (Zanichelli Editore, 1999); Japanese (Tuttle-More, 1996); Korean (1999).
3. Finch CE, Kirkwood TBL (2000). Chance, Development, and Aging. Oxford University Press.
4. Finch CE (2007) The Biology of Human Longevity: Nutrition, Inflammation, and Aging in the Evolution of Lifespans, Academic Press: San Diego.

## **BOOKS EDITED**

1. Finch CE, Hayflick L (1977) Handbook of the Biology of Aging. New York: Van Nostrand.
2. Adelman AC, Finch CE, Gibson D (1978) Development of the Rodent as a Model for Aging II. New York: Raven Press.
3. Behnke JA, Finch CE, Moment GB (1978) The Biology of Aging. New York: Plenum Press.
4. Finch CE, Potter DE, Kenny AD (1978) Parkinson's Disease II: Aging and Neuroendocrine Relationships. New York: Plenum Press.
5. 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.
6. Finch CE, Schneider EL (1985) Handbook of the Biology of Aging. Second Edition. New York: Van Nostrand.
7. Davies P, Finch CE (1987) Molecular Neuropathology of Aging. Banbury Conference Report, No. 27.
8. Finch CE, Davies P (1988) Molecular Biology of Alzheimer's Disease. Banbury Conference Report.
9. Finch CE, Johnson TE (1990) Molecular Biology of Aging. UCLA Symposia on Cellular and Molecular Biology, New Series, Vol. 123. New York: Wiley-Liss.
10. Hazzard DG, Warner HR, Finch CE (1991) NIH Workshop on Alternate Animal Models for Research on Aging (Dec. 1989). Exp Gerontol 26.
11. Rose MR, Finch CE (1993) Genetics of Aging, Genetica (Special Issue) 91.
12. Rose MR, Finch CE (1994) Genetics in the Evolution of Aging. Amsterdam: Kluwer Academic Publishers.
13. Maddox C, Finch CE, et al. (1995) Encyclopedia of Aging. New York: Springer Publications.
14. Wachter K, Finch CE (1997) Between Zeus and the Salmon: The Biodemography of Longevity. Washington, D.C.: National Academy of Sciences.
15. Finch CE (1999) Clusterin in Normal Brain Functions and During Neurodegeneration. Austin, TX: Landes Bioscience Publishers.
16. Finch CE, Austad SN (2001) Slowly Aging Organisms. Experimental Gerontology 36: (Special Issue, 4-6).
17. Finch CE, Vaupel J (2002) Cells and Surveys: Should biological measures be included in Social Sciences Research? Washington: National Academy of Sciences.

## **PUBLICATIONS**

### **1966**

1. Finch CE (1966) Changes in alpha-2 macroglobulin during malaria in the duckling. Proc Soc Exp Biol Med 123:652-565.

### **1969**

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

### **1971**

5. Finch CE (1971) Comparative biology of senescence: Evolutionary and developmental considerations. In: Animal Models for Biomedical Research IV, p. 47-67. Washington, D.C.: National Academy of Science.

### **1972**

6. Paparo A, Finch CE (1972) Catecholamine localization, content, and metabolism in the gill of two lamellibranch mollusks. Comp Gen Pharm 3:53-67.
7. Finch CE (1972) Cellular pacemakers of ageing in mammals. In: Proc 1st Conf 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.

### **1973**

9. Finch CE (1973) Catecholamine metabolism in the brains of ageing male mice. Brain Res 52:261-276.
10. Finch CE (1973) Retardation of hair growth, a phenomenon of senescence in C57BL/6J male mice. J Gerontol 28:13-17.
11. 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.
12. Mays LL, Borek E, Finch CE (1973) Glycine N-methyltransferase is a regulatory enzyme which increases in ageing animals. Nature 243:411-413.
13. 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.
14. Finch CE (1973) Monoamine metabolism in the aging male mouse. In: Development and Aging in the Nervous System (Rockstein M, ed.), p. 192-218. New York: Academic Press.

### **1974**

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

## **1975**

18. Jonec V, Finch CE (1975) Ageing and dopamine uptake by subcellular fractions of the C57BL/6J male mouse brain. Brain Res 91:197-215.
19. 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.
20. 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.
21. Osterburg HH, Allen JK, Finch CE (1975) The use of ammonium acetate in the precipitation of ribonucleic acid. Biochem J 147:367-368.
22. 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.
23. Finch CE (1975) Aging and the regulation of hormones: A view in October 1974. In: Explorations on Aging (Adelman RC, et al., eds.), p. 229-238. New York: Plenum Press.
24. Finch CE (1975) Neuroendocrinology of aging: A view of an emerging area. Bioscience 25:645-650.
25. Finch CE (1975) Aging research B some personal thoughts (guest editorial). Human Path 6:1.

## **1976**

26. Latham KR, Finch CE (1976) Hepatic glucocorticoid binders in mature and senescent C57BL/6J male mice. Endocrinology 98:1480-1489.
27. 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.
28. Finch CE (1976) The regulation of physiological changes during mammalian aging. Q Rev Biol 51:49-83.
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 B a speculation. In: Neurobiology of Aging (Terry RD, Gershon S, eds.), p. 335-338. New York: Raven Press.
31. Finch CE (1976) Biological theories of aging. In: Nursing and the Aged (Burnside IM, ed.), p. 92-98. New York: McGraw-Hill.
32. Finch CE (1976) Supracenturians (book review of The Centurians of the Andes, by Davies D). BioScience 27:54.

## **1977**

33. 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.
34. Holinka CF, Finch CE (1977) Age-related changes in the decidual response of the C57BL/6J mouse uterus. Biol Repro 16:385-393.
35. 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 Repro 17:262-264.
36. 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 Repro 17:262-264.
37. Finch CE, Flurkey K (1977) The molecular biology of estrogen replacement. Contemp Ob Gyn 9:97-107.
38. Finch CE (1977) Guest editorial (on health status of subjects used in aging research). J Gerontol 32:257.
39. Finch CE (1977) Endocrine and neural factors of reproductive senescence in rodents. In: The Molecular Biology of the Mammalian Genetic Apparatus (Ts'o P, ed.), p. 304-312. New York: Elsevier/N-Holland Biomed Press.
40. Finch CE (1977) Response to comments by HT Blumenthal (editorial response). J Gerontol 32:642.

## **1978**

41. 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 Repro 18:418-420.
42. Holinka CF, Tseng Y-C, Finch CE (1978) Prolonged gestation, elevated preparturitional plasma progesterone and reproductive aging in C57BL/6J mice. Biol Repro 19:807-816.
43. 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.
44. 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.), p. 193-212. New York: Raven Press.
45. 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.), p. 461-468. New York: Raven Press.
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.), p. 45-55. New York: Raven Press.
47. Finch CE (1978) Genotypic influences on female reproductive senescence in rodents. In: Genetics and Aging, (Birth Defects: Original Article Series, Vol. XIV), (Bergsma S, Harrison DE, eds.), 1:335-354. New York: The National Foundation.
48. Finch CE (1978) The brain and aging. In: A New Look at the Biology of Aging (Behnke JA, et al., eds.), p. 301-309. New York: Plenum Press.

49. 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, (Adv. Exp. Bio. Med., Vol. 113), (Finch CE, et al., eds.), p. 15-39. New York: Plenum Press.

## **1979**

50. Holinka CF, Tseng Y, Finch CE (1979) Reproductive aging in C57BL/6J mice: Plasma progesterone, viable embryos and resorption frequency throughout pregnancy. Biol Repro 20:1201-1211.
51. Holinka CF, Tseng Y-C, Finch CE (1979) Impaired preparturitional rise of plasma estradiol in aging C57BL/6J mice. Biol Repro 21:1009-1013.
52. Masuoka DT, Jonsson G, Finch CE (1979) Aging and unusual catecholamine-containing structures in the mouse brain. Brain Res 169:335-341.
53. Finch CE (1979) Susceptibility of mouse liver DNA to digestion by S1 nuclease: Absence of age-related change. Age 2:45-46.
54. Weber G, Margetan J, Finch CE, Mays LL (1979) Brain transfer ribonucleic acid methyltransferases in young adult and old mice. Exp Gerontol 14:157-160.
55. Finch CE (1979) Neuroendocrine mechanisms and aging. Fed Proc 38:178-183.
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.), p. 71-86. New York: Raven Press.
57. 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.), p. 19-25. New York: Columbia University.

## **1980**

58. Colman PD, Kaplan BB, Osterburg HH, Finch CE (1980) Brain poly(A) RNA during aging: Stability of yield and sequence complexity in two rat strains. J Neurochem 34:335-345.
59. Finch CE (1980) The relationships of aging changes in the basal ganglia to manifestations of Huntington's chorea. Ann Neurol 7:406-411.
60. Severson JA, Finch CE (1980) Reduced dopaminergic binding during aging in the rodent striatum. Brain Res 192:147-162.
61. Felicio LS, Nelson JF, Finch CE (1980) Spontaneous pituitary tumorigenesis and plasma oestradiol in ageing female C57BL/6J mice. Exp Gerontol 15:139-143.
62. Nelson JF, Felicio LS, Finch CE (1980) Ovarian hormones and the etiology of reproductive aging in mice. In: Aging B Its Chemistry (Deitz AA, ed.), p. 64-81. Washington, D.C.: The American Association for Clinical Chemistry.
63. Finch CE, Felicio LS, Flurkey K, Gee DM, Mobbs C, Nelson JF, Osterburg HH (1980) Studies on ovarian-hypothalamic-pituitary interactions during reproductive aging in

- C57BL/6J mice. In: Brain-Endocrine Interaction, IV: Neuropeptides in Development & Aging, (Peptides, Vol. 1, Suppl. 1), (Scott D, Sladek JL Jr., eds.), p. 163-175. Fayetteville, New York: ANKHO International Inc.
64. Finch CE (1980) Studies on the biochemistry of the brain during aging. In: Aging, Cancer and Cell Membranes, (Advances in Pathobiology, Vol. 7), (Borek C, et al., eds.), p. 210-217. New York: Theime-Stratton.
65. Finch CE (1980) Emergent issues in neurogerontology. In: Roche Seminars on Aging No. 1, Section 1, The Scientific Aspects. Nutley, New Jersey: Roche Pharmaceuticals.

## **1981**

66. Severson JA, Randall PK, Finch CE (1981) Genotypic influences on striatal dopaminergic regulation in mice. Brain Res 210:201-215.
67. Osterburg HH, Donahue HG, Severson JA, Finch CE (1981) Catecholamine levels and turnover during aging in brain regions of male C57BL/6J mice. Brain Res 224:337-352.
68. Randall PK, Severson JA, Finch CE (1981) Aging and the regulation of striatal dopaminergic mechanisms in mice. J Pharm ExpTherap 219:695-700.
69. Severson JA, Osterburg HH, Finch CE (1981) Aging and haloperidol-induced dopamine turnover in the nigro-striatal pathway of C57BL/6J mice. Neurobiol Aging 2:193-197.
70. Schechter JE, Felicio LS, Nelson JF, Finch CE (1981) Pituitary tumorigenesis in aging female C57BL/6J mice: A light and electron microscopic study. Anat Rec 199:423-432.
71. Nelson JF, Felicio LS, Osterburg HH, Finch CE (1981) Altered profiles of estradiol and progesterone associated with prolonged estrous cycles and persistent vaginal cornification in aging C57BL/6J mice. Biol Repro 24:784-794.
72. Schipper H, Brawer JR, Nelson JF, Felicio LS, Finch CE (1981) Role of the gonads in the histologic aging of the hypothalamic arcuate nucleus. Biol Repro 25:413-419.
73. Gosden RG, Holinka CF, Finch CE (1981) The distribution of fetal mortality in ageing C57BL/6J mice: A statistical analysis. Exp Gerontol 16:172-130.
74. Flurkey K, Gee DM, Finch CE (1981) Age changes in progesterone and its relationship to LH during proestrus in C57BL/6J mice. In: Physiologic Cessation of Ovarian Function (Schwartz NB, Hunzicker-Dunn M, eds.), p. 297-301. New York: Raven Press.
75. Finch CE (1981) Neural and endocrine mechanisms in aging: A synopsis. In: Biological Mechanisms in Aging (Schimke RT, ed.), NIH Pub. No. 81-2194, p. 537-557. Washington, D.C.: USDHSS.
76. Finch CE (1981) Macromolecular biosynthesis in the brain during aging. In: Biological Mechanisms in Aging, (Schimke RT, ed.), NIH Pub. No. 81-2194, p. 604-611. Washington, D.C.: USDHSS.
77. Holinka CF, Finch CE (1981) Efficiency of mating in C57BL/6J female mice as a function of age and previous parity. Exp Gerontol 16:393-398.
78. Finch CE, Marshall FJ, Randall PK (1981) Aging and basal ganglia functions. Ann Rev Gerontol Geriat 2:49-87.
79. Finch CE (1981) Aging and transcription of the rat brain genome. In: Aging: A Challenge to Science and Society, (Biology, Vol. 1), (Danon D, et al., eds.), p. 242-249. Boston: Oxford University Press.

## **1982**

80. Flurkey K, Gee DM, Sinha YN, Wisner JR Jr, Finch CE (1982) Age effects on luteinizing hormone, progesterone and prolactin in proestrous and acyclic C57BL/6J mice. Biol Repro 26:835-846.
81. Nelson JF, Felicio LS, Randall PK, Simms C, Finch CE (1982) A longitudinal study of estrous cyclicity in aging C57BL/6J mice: 1, cycle frequency, length and vaginal cytology. Biol Repro 27:327-339.
82. Severson JA, Marcusson J, Winbald B, Finch CE (1982) Age-correlated loss of dopaminergic binding sites in human basal ganglia. J Neurochem 39:1623-1631.
83. Finch CE, Holinka CF (1982) Aging and uterine growth during implantation in C57BL/6J mice. Exp Gerontol 17:235-241.
84. Finch CE (1982) Rodent models for aging processes in the human brain. In: Alzheimer's Disease: A Report of Progress, (Aging, Vol. 19), (Corkin S, et al., eds.), p. 249-257. New York: Raven Press.
85. Randall PK, Finch CE (1982) Neuroendocrine mechanisms in rodent reproductive aging. In: Behavioral Endocrinology (Nemeroff California, Dunn AJ, eds.), p. 865-892. New York: Academic Press.
86. Kaplan BB, Finch CE (1982) The sequence complexity of brain ribonucleic acids. In: Molecular Approaches to Neurobiology (Brown I, ed.), p. 71-98. New York: Academic Press.
87. Finch CE (1982) The neurobiology of aging (book review of Brain Neurotransmitters and Receptors in Aging and Age-Related Disorders, Papers from a symposium, Houston, Oct. 1980, Enna SJ, et al., eds.). Science 216:49-50.
88. Finch CE (1982) Book review of Neural Regulatory Mechanisms During Aging, Adelman RC, et al. (eds.). EEG 53:347-348.
89. Finch CE, Mobbs CV (1982) Non-lethal measurements involving steroids and neurotransmitters as reflections of physiological aging. In: Biological Markers of Aging (Reff ME, Schneider EL, eds.), p. 19-25. NIH publication. Washington, D.C.: USDHSS.

## **1983**

90. Severson JA, de Vellis JS, Finch CE (1983) (<sup>3</sup>H)spiperone binding sites in rat primary glial cultures, C6 glioma and B104 neuroblastoma. J Neurosci Res 9:21-26.
91. Gosden RG, Laing SC, Felicio LS, Nelson JF, Finch CE (1983) Imminent oocyte exhaustion and reduced follicular recruitment mark the transition to acyclicity in aging C57BL/6J mice. Biol Repro 28:255-260.
92. Gee DM, Flurkey K, Finch CE (1983) Aging and the regulation of luteinizing hormone in C57BL/6J mice: Impaired elevations after ovariectomy and spontaneous elevations at advanced ages. Biol Repro 28:598-607.
93. Felicio LS, Nelson JF, Gosden RG, Finch CE (1983) Restoration of ovulatory cycles by young ovarian grafts in aging mice: Potentiation by long-term ovariectomy decreases with age. Proc Nat Acad Sci 80:6076-6080.
94. Gosden RG, Laing SC, Flurkey K, Finch CE (1983) Graafian follicle growth and replacement in anovulatory ovaries of ageing C57BL/6J mice. J Reprod Fert 69:453-462.

95. Joseph JA, Bartus RT, Clody D, Morgan D, Finch C, Beer B, Sesack S (1983) Psychomotor performance in the senescent rodent: Reduction of deficits via striatal dopamine receptor up-regulation. Neurobiol Aging 4:313-319.
96. Finch CE, Mobbs CV (1983) Hormonal influences on hypothalamic sensitivity during aging in female rodents. In: Neuroendocrinology of Aging (Meites J, ed.), p. 143-171. New York: Plenum Press.
97. Finch CE (1983) Plasticity in reproductive aging of female C57BL/6J mice. In: Aging of the Brain (Samuel D, et al., eds.), p. 363-371. New York: Raven Press.
98. Brawer JR, Finch CE (1983) Normal and experimentally altered aging processes in the rodent hypothalamus and pituitary. In: Experimental and Clinical Intervention in Aging (Walker RF, Cooper RL eds.), p. 45-66. New York: Dekker.

## **1984**

99. Gee DM, Flurkey K, Mobbs CV, Sinha YN, Finch CE (1984) The regulation of luteinizing hormone and prolactin in C57BL/6J mice: Effects of estradiol implant size, duration of ovariectomy, and aging. Endocrinology 114:685-693.
100. Mobbs CV, Flurkey K, Gee DM, Yamamoto K, Sinha YN, Finch CE (1984) Estradiol-induced adult anovulatory syndrome in female C57BL/6J mice: Age-like neuroendocrine, but not ovarian, impairments. Biol Repro 30:556-563.
101. Morgan DG, Sinha YN, Finch CE (1984) Chronic domperidone fails to increase striatal spiperone binding sites despite hyperprolactinemia: Comparison with chronic haloperidol. Neuroendocrinology 38:407-411.
102. Gordon MN, Finch CE (1984) Topochemical localization of choline acetyltransferase and acetylcholinesterase in mouse brain. Brain Res 308:364-368.
103. Morgan DG, Marcusson JO, Finch CE (1984) Contamination of serotonin-2 binding sites by an alpha-1 adrenergic component in assays with (<sup>3</sup>H)spiperone. Life Sci 34:2507-2514.
104. Marcusson JO, Morgan DG, Winblad B, Finch CE (1984) Serotonin-2 binding sites in human frontal cortex and hippocampus: Selective loss of S-2A sites with age. Brain Res 311:51-56.
105. Clayton CJ, Schechter J, Finch CE (1984) The development of mammoth adenomas in pituitaries of aging female C57BL/6J mice. Exp Gerontol 19:313-320.
106. Gee DM, Flurkey K, Finch CE (1983) Aging and the regulation of luteinizing hormone in C57BL/6J mice: Impaired elevations after ovariectomy and spontaneous elevations at advanced ages. Biol Repro 28:598-607.
107. Felicio LS, Nelson JF, Finch CE (1984) Longitudinal studies of estrous cyclicity in aging C57BL/6J mice: II. Cessation of cyclicity and the duration of persistent vaginal cornification. Biol Repro 31:446-453.
108. Finch CE, Felicio LS, Mobbs CV, Nelson JF (1984) Ovarian and steroidal influences on neuroendocrine aging processes in female rodents. Endocrine Rev 5:467-497.

109. Randall PK, Finch CE (1984) Neuroendocrine mechanisms in rodent reproductive aging. In: Peptides, Hormones, and Behavior (Nemeroff CB, Dunn AJ, eds.), p. 865-892. New York: Spectrum Pub.
110. Morgan DM, Severson JA, Marcusson JO, Finch CE (1984) Aging and the serotonergic synapse in human brain: A preliminary report. In: Comparative Pathobiology of Major Age-Related Diseases: Current Status and Research Frontiers, (Modern Aging Research, Vol. 4), (Scarpelli DG, Migaki G, eds.), p. 401-410. New York: Alan R. Liss Inc.

## **1985**

111. Mobbs CV, Cheyney D, Sinha YN, Finch CE (1985) Age correlated and ovary-dependent changes in relationships between plasma estradiol and luteinizing hormone, prolactin, and growth hormone in female C57BL/6J mice. Endocrinology 116:813-820.
112. Gordon MN, Mobbs CV, Finch CE (1985) The antiestrogen LY117018 blocks specific effects of estradiol on pituitary glucose-6-phosphate dehydrogenase specific activity and on serum LH. Neuroendocrinology 40:381-384.
113. Morgan DM, Mobbs CV, Anderson CP, Sinha YN, Finch CE (1985) Hyperprolactinemia fails to increase striatal dopamine receptors in male and female C57BL/6J mice. Eur J Pharmacol 107:101-104.
114. Rogers J, Shoemaker WJ, Morgan DG, Finch CE (1985) Senescent change in tissue weight and immunoreactive B-endorphin, enkephalin and vasopressin in eight regions of C57BL/6J mouse brain and pituitary. Neurobiol Aging 6:1-9.
115. Mobbs CV, Kannegieter LS, Finch CE (1985) Delayed anovulatory syndrome induced by estradiol in female C57BL/6J mice: Age-like neuroendocrine, but not ovarian, impairments. Biol Repro 32:1010-1017.
116. May PC, Finch CE (1985) Altered tubulin distribution in the hypothalamus of aging female C57BL/6J mice. Neurobiol Aging 6:305-308.
117. Severson JA, Marcusson JO, Osterburg HH, Finch CE, Winblad B (1985) Elevated density of [<sup>3</sup>H]Imipramine binding in aged human brain. J Neurochem 45:1382-1389.
118. Finch CE, Landfield PW (1985) Neuroendocrine and autonomic function in aging mammals. In: Handbook of the Biology of Aging (Finch CE, Schneider EL, eds.), 2nd ed., p. 79-90. New York: Van Nostrand.
119. Finch CE (1985) Modulation of aging processes in the brain. In: Thresholds in Aging, the 1984 Sandoz lectures in Gerontology (Bergener M, Ermini M, Stahelin HB, eds.), p. 175-188. New York: Academic Press.
120. Finch CE (1985) A progress report on neurochemical and neuroendocrine regulation in normal and pathological aging. In: Aging 2000 B Our Health Care Destiny, (Vol. 1), (Samorajski T, ed.), p. 79-90. New York: Springer-Verlag.
121. Finch CE (1985) Prospettive della gerontologia per gli anni '90. Rassegna Clin Sci 61:99-101.
122. Finch CE (1985) Findings in the neurobiology of aging. In: Frontiers in Medicine: Implications for the Future (Morin RJ, Bing RJ, eds.), p. 264-285. New York: Human Sciences Press, Inc.

123. Finch CE (1985) Book review: Clinical Neurology of Aging, Martin ML (ed.), Oxford Press. Contemp Psychol 30:644-645.
124. Finch CE (1985) Book review: Physiology of Aging, Frolkis VV (ed.), Karger (1984). Science 228:1421-1422.
125. Finch CE (1985) Book review: Aging and Cell Function, Johnson, JJ Jr. (ed.), Plenum Press (1984). Quart Rev Biol 60:132.
126. Finch CE (1985) Book review: Aging and Cell Function, Johnson, JJ Jr. (ed.), Plenum Press (1984). Quart Rev Biol 60:132.
127. Finch CE (1985) Alzheimer's disease: A biologist's perspectives (editorial). Science 230:1109.

## **1986**

128. Flurkey K, Eskanazi DP, Finch CE (1986) Estradiol regulates cell surface immunoglobulin in mice. Devel Comp Immunol 10:85-91.
129. Telford N, Mobbs, CV, Sinha YN, Finch CE (1986) The increase of anterior pituitary dopamine in aging C57BL/6J female mice is caused by ovarian steroids, not intrinsic pituitary aging. Neuroendocrinology 43:135-142.
130. Felicio LS, Nelson JF, Finch CE (1986) Prolongation and cessation of estrous cycles in aging C57BL/6J mice are differentially regulated events. Biol Repro 34:849-858.
131. Hoffman GE, Finch CE (1986) LHRH neurons in the female C57BL/6J mouse brain during reproductive aging: No loss up to middle-age. Neurobiol Aging 7:45-48.
132. Morgan DG, Finch CE (1986) (<sup>3</sup>H)Fluphenazine binding to brain membranes: Simultaneous measurement of D-1 and D-2 receptor sites. J Neurochem 46:1623-1631.
133. Johnson SA, Morgan DG, Finch CE (1986) Extensive postmortem stability of RNA from rat and human brain. J Neurosci Res 16:267-280.
134. May PC, Morgan DG, Finch CE (1986) Regional serotonin receptor studies: Chronic methysergide treatment induces a selective and dose-dependent decreases in serotonin-2 receptors in mouse cerebral cortex. Life Sci 38:1741-1747.
135. Severson JA, Pittman RN, Gal J, Molinoff PB, Finch CE (1986) Genetic influence on the regulation of beta-adrenergic receptors in mice. J Pharm Exp Therap 236:24-29.
136. Gordon MN, Osterburg HH, May PC, Finch CE (1986) Effective oral administration of 17 $\beta$ -estradiol to female C57BL/6J mice through the drinking water. Biol Repro 35:1088-1095.
137. Finch CE (1986) New questions about steroids. J Am Geriat Soc 34:393-394.
138. Finch CE (1986) Issues in the analysis of interrelationships between the individual and the environment during aging. In: Human Development and the Life Courses: Multidisciplinary Perspectives (Sorensen O, ed.), p. 18-29. Hillsdale, New Jersey: L. Erlbaum Assoc.
139. Finch CE, Gosden RG (1986) Animal models for the human menopause. In: Aging, Reproduction and the Climacteric (Mastroianni L, Paulsen California, ed.), p. 3-34. New York: Plenum.

## **1987**

140. Morgan DG, Randall JS, Telford NA, Gordon MN, Sinha YN, Finch CE, Randall PK (1987) Genotypic influences on pituitary responses to haloperidol in mice. Psychoneuroendocrinology 12:211-218.
141. Osterburg HH, Telford NA, Cohen-Becker, I, Wise, PA, Finch CE (1987) Hypothalamic monoamines and their catabolites in relation to estradiol-induced luteinizing hormone surge. Brain Res 409:31-40.
142. Morgan DG, May PC, Finch CE (1987) Dopamine and serotonin systems in human and rodent brain: Effects of age and degenerative disease. J Am Ger Soc 35:334-345.
143. Flurkey K, May PC, Anderson C, Finch CE (1987) Supernumerary ovarian grafts in aging C57BL/6J mice reveal complexities in the neuroendocrine impairments of acyclic mice. Biol Reprod 36:961-969.
144. Flurkey K, Randall PK, Sinha YN, Ermini M, Finch CE (1987) Transient shortening of estrous cycles in aging C57BL/6J mice: Effects of spontaneous pseudopregnancy, progesterone, L-DOPA, and hydergine. Biol Reprod 36:949-959.
145. Gordon MN, Schechter JE, Felicio LS, Finch CE (1987) Spontaneous tumors in aging female mice are more prevalent in the lateral pituitary zones. Neurobiol Aging 8:67-70.
146. May PC, Severson JA, Osterburg HH, Finch CE (1987) Compartmentalization of calmodulin and tubulin in the male C57BL/6J mouse brain. Heterogeneity of age changes in calmodulin compartments. Neurobiol Aging 8:131-137.
147. May PC, Osterburg HH, Mandel RJ, Morgan DG, Randall PK, Finch CE (1987) Alteration of calmodulin distribution does not accompany dopaminergic supersensitization of the mouse striatum. J Neurosci Res 17:247-250.
148. Morgan DG, Marcusson JO, Nyberg P, Wester P, Winblad BN, Gordon MN, Finch CE (1987) Divergent changes in D-1 and D-2 dopamine binding sites of human brain during aging. Neurobiol Aging 8:195-201.
149. Telford N, Sinha YN, Finch CE (1987) Hormonal influences on the estradiol-induced and age-related increases of pituitary dopamine in C57BL/6J mice: Effects of gonadal steroids, gender and prolactin. Neuroendocrinology 46:481-487.
150. Finch CE (1987) Environmental influences on the brain during aging. In: (Riley MW, et al., eds.), p. 77-91. Washington, D.C.: Inst. Behav. Med.
151. Finch CE, Morgan DM (1987) Aging and schizophrenia: An hypothesis relating asynchrony in neural aging processes to the manifestation of schizophrenia and other neurological diseases with age. In: Schizophrenia, Paranoia and Schizophreniform Disorders in Later Life (Miller NE, Cohen GN, eds.), p. 97-108. Washington, D.C.: NIMH.
152. Finch CE (1987) The orderly decay of order in the regulation of aging processes. In: Self-Organizing Systems: Physical, Mathematical and Biological Viewpoints, (Yates FE, ed.), p. 213-236. New York: Plenum.
153. Finch CE (1987) Neural and endocrine determinants of senescence: Investigation of causality and reversibility of laboratory and clinical interventions. In: Modern Biological Theories of Aging (Warner H, ed.), p. 261-306. New York: Raven Press.

154. Finch CE (1987) Neurotransmitters, genetics and aging. In: Modification of Cell to Cell Signals During Normal and Pathological Aging (Govoni S, Battaini F, eds.), (NATO-ASI Series, Vol. H9), p. 63-82. Heidelberg: Springer-Verlag.
155. Finch CE (1987) Nathan Shock's pioneering analysis of physiological mechanisms in aging. Exp Gerontol 22:305-306.
156. Finch CE, Johnson S, Kohama S, Lerner S, Masters J, May P, Morgan D, Nichols N, Pasinetti G, Telford N (1987) Physiological approaches to the roles of gene regulation in the brain during aging. In: Molecular Approaches to the Neuropathology of Aging (Davies P, Finch C, eds.). Banbury Report 27: 143-158.
157. Morgan DG, Finch CE (1987) Neurotransmitter receptors in Alzheimer's disease and nonpathological aging. In: Molecular Approaches to the Neuropathology of Aging (Davies P, Finch C, eds.). Banbury Report 27: 21-35.

## **1988**

158. Gordon MN, Morgan DG, Mobbs CV, Sinha YN, Finch CE (1988) Effects of estradiol on mouse pituitary glucose-6-phosphate dehydrogenase activity. Endocrinology 22:726-733.
159. Nichols NR, Lerner SP, Masters JN, May PC, Millar SL, Finch CE (1988) Rapid corticosterone-induced changes in gene expression in rat hippocampus display type II glucocorticoid receptor specificity. Mol Endocrinol 2:284-290.
160. Lerner SP, Anderson CP, Finch CE (1988) Genotypic influences on female reproductive senescence in mice. Biol Repro 38:1035-1044.
161. Telford N, Mobbs CV, Osterburg HH, Finch CE (1988) Alterations in hypothalamic serotonergic-catecholaminergic interrelationships in aging C57BL/6J female mice. Exp Gerontol 23:481-489.
162. May PC, Morgan DG, Salo D, Goss JR, Finch CE (1988) Effects of radioligand oxidation and ascorbate-induced lipid peroxidation on serotonin-1 receptor assay: Use of ascorbate and EDTA buffers to prevent [<sup>3</sup>H]5HT binding artifacts. J Neurosci Res 20:257-262.
163. Johnson SA, Pasinetti GM, May PC, Ponte PA, Cordell B, Finch CE (1988). Selective reduction of mRNA for the B-amyloid precursor protein that lacks a Kunitz-type protease inhibitor motif in cortex from AD. Exp Neurol 102:264-268.
164. vom Saal FS, Finch CE (1988) Reproductive senescence: Phenomena and mechanisms in mammals and selected vertebrates. In: Physiology of Reproduction (Vol. 2), (Knobil E, ed.), p. 2351-2413. New York: Raven Press.
165. Finch CE (1988) Neural and endocrine approaches to the resolution of time as a dependent variable in the aging processes of mammals. Kleemeier Award Lecture, 1985. Gerontologist 28:29-42.
166. Finch CE (1988) Aging in the female reproductive system: A model for analysis of complex interactions during aging. In: Emergent Theories of Aging: Psychological and Sociological Perspectives on Time, Self and Society (Bengtson VL, Birren JE, eds.), p. 128-150. New York: Springer.
167. Morgan DG, May PC, Finch CE (1988) Neurotransmitter receptors in normal human aging and Alzheimer's disease. In: Receptors and Ligands in Psychiatry and Neurology (Sen AK, Lee TY, eds.), p. 120-147. Cambridge University Press.

168. Morgan DG, Finch CE (1988) Dopaminergic changes in the basal ganglia: A generalized phenomena of aging in mammals. Ann NY Acad Sci 515:145-160.
169. May PC, Finch CE (1988) Aging and responses to toxins in female reproductive functions. Repro Toxicol 1:223-228.
170. Finch CE (1988) Preface. In: Molecular Biology of Alzheimer's Disease (Finch CE, Davies P eds.). Current Topics in Molecular Biology, Cold Spring Harbor Labs.
171. May PC, Finch CE (1988) RNA changes as marker for neuronal atrophy and hyperactivity during Alzheimer's and other age-related brain diseases. In: Molecular Biology of Alzheimer's Disease (Finch CE, Davies P, eds.), p. 43-47. Current Topics in Molecular Biology, Cold Spring Harbor Laboratory.
172. Johnson SA, Pasinetti G, Finch CE (1988) Selective reductions of beta-amyloid precursor protein transcripts prevalence in AD cortex. In: Molecular Biology of Alzheimer's Disease (Finch CE, Davies P, eds.), p. 112-115. Current Topics in Molecular Biology, Cold Spring Harbor Laboratory.
173. Finch CE (1988) Approaches to gene expression in the brain during normal and pathological aging. Neurosurgery: State of the Art Reviews 3:195-201.

## **1989**

174. Nichols NR, Masters JN, May PC, de Vellis J, Finch CE (1989) Corticosterone-induced responses in rat brain RNA are also evoked in hippocampus by acute vibratory stress. Neuroendocrinology 49:40-46.
175. Pasinetti GM, Lerner SP, Johnson SA, Morgan DG, Telford NA, Finch CE (1989) Chronic lesions differentially decrease tyrosine hydroxylase mRNA in dopaminergic neurons and the substantia nigra. Mol Brain Res 5:203-209.
176. Kohama SG, Anderson CP, Osterburg HH, May PC, Finch CE (1989) Oral administration of estradiol to young C57BL/6J mice induces age-like neuroendocrine dysfunctions in the regulation of estrous cycles. Biol Repro 41:227-232.
177. Kohama SG, Anderson CP, Finch CE (1989) Progesterone implants extend the capacity for 4-day estrous cycles in aging C57BL/6J mice and protect against acyclicity induced by estradiol. Biol Repro 41:233-240.
178. Pasinetti GM, Morgan DG, Lerner SP, Poirier J, Johnson SA, Meyer MM, Finch CE (1989) Combined in situ hybridization and immunocytochemistry in the assay of pharmacologic effects on tyrosine hydroxylase gene expression. Pharmacol Res 21:299-311.
179. May PC, Kohama SG, Finch CE (1989) N-methyl-aspartic acid lesions of the arcuate nucleus in adult C57BL/6J mice: A new model for age-related lengthening of the estrous cycle. Neuroendocrinology 50:605-612.
180. Masters JN, Finch CE, Sapolsky RM (1989) Glucocorticoid endangerment of hippocampal neurons does not involve deoxyribonucleic acid cleavage. Endocrinology 124:3083-3088.
181. Johnson SA, Rogers J, Finch CE (1989) APP-695 transcript prevalence is selectively reduced during Alzheimer's disease in cortex and hippocampus but not in cerebellum. Neurobiol Aging 10:267-272.
182. Henderson VW, Finch CE (1989) The neurobiology of Alzheimer's disease. J Neurosurg 70:335-353.

183. Finch CE (1989) The brain, genes, and aging. In: The Course of Later Life: Research and Reflections (Bengtson VL, Schaie KW, eds.), p. 1-14. New York: Springer.
184. Poirier J, Finch CE (1989) Neurochemistry of the aging human brain. In: Principles of Geriatric Medicine (Hazzard W, ed.). York, Pennsylvania: McGraw Hill.
185. Finch CE, Goss JR, Johnson SA, Kohama SG, May PC, Masters JN, Millar SL, Morgan DG, Nichols NR, Osterburg HH, Pasinetti GM (1989) Aging and gene expression in the mammalian brain: Normal and pathological changes. In: Parkinsonism and Aging (Calne D, et al., eds.), p. 107-113. New York: Raven Press.
186. May PC, Johnson SA, Poirier J, Lampert-Etchells M, Finch CE (1989) Altered gene expression in Alzheimer's disease brain tissue. Can J Neurol Sci 16:473-476.
187. Finch CE (1989) Is senescence obligatory in eukaryotic cells? In: Development, Maturation and Senescence of the Neuroendocrine System (Schreibman M, Scanes C, eds.), p. 397-417. Academic Press.

## **1990**

188. Nichols NR, Osterburg HH, Masters JN, Millar SL, Finch CE (1990) Messenger RNA for glial fibrillary acidic protein is decreased in rat brain following acute and chronic corticosterone treatment. Mol Brain Res 7:1-7.
189. Poirier J, May PC, Osterburg HH, Geddes J, Cotman C, Finch CE (1990) Selective alterations of RNA hippocampus following entorhinal cortex lesion. Proc Natl Acad Sci USA 87:303-307.
190. Johnson SA, McNeill T, Cordell B, Finch CE (1990) Relation of neuronal APP-751/APP-695 mRNA ratio and neuritic plaque density in Alzheimer's disease. Science 248:854-857.
191. Goss, JR, Finch CE, Morgan DG (1990) GFAP RNA prevalence is increased in aging and in wasting mice. Brief Communication. Exp Neuro 1108:266-268.
192. Sapolsky RM, Uno H, Rebert CS, Finch CE (1990) Hippocampal damage associated with prolonged glucocorticoid exposure in primates. J Neurosci 10:2897-2902.
193. Pasinetti GM, Morgan DG, Johnson SA, Millar SL, Poirier J and Finch CE (1990) Tyrosine Hydroxylase mRNA Concentration in Midbrain Dopaminergic Neurons is Differentially Regulated by Reserpine. J Neurochem 55:1793-1799.
194. Nichols NR, Masters JN, Finch CE. (1990) Changes in gene expression in hippocampus in response to glucocorticoids and stress. Brain Res Bull 24:659-662.
195. Finch CE, Pike MC, Witten M (1990) Slow mortality rate accelerations during aging in animals approximate that of humans. Science 249:902-905.
196. May PC, Lampert-Etchells M, Johnson SA, Poirier J, Masters JN, Finch CE (1990) Dynamics of gene expression for a hippocampal glycoprotein elevated in Alzheimer's disease and in response to experimental lesions in rat. Neuron 5:831-839.
197. Day JR, Laping NJ, McNeill TH, Schreiber SS, Pasinetti G, Finch CE (1990) Castration enhances expression of GFAP and SGP-2 in the intact and lesion-altered hippocampus of the adult male rat. Mol Endocrinol 4:1995-2002.
198. Finch CE, Morgan DG (1990) RNA and protein metabolism in the aging brain. Ann Rev Neurosci 13:75-87.

199. Finch CE (1990) Progress in the biology of aging. In: Improving Health in Older People: A World View (Kane R, Evans J, MacFadyen D, eds.), p. 128-142. New York: Oxford Press.
200. Finch CE (1990) An update on studies to modulate gene activity during aging in the brain. In: Brain Aging. Molecular Neurobiology, the Aging Process of Neurodegenerative Disease. Vol.5. In: Neuronal Control of Bodily Function. Basic and Clinical Aspects (Hendrie HC, ed.), p. 147-158. Hogrefe and Huber, Publishers Journal.
201. Coleman P, Finch CE, Joseph J (1990) The need for multiple time points in aging studies. Neurobiol Aging 11:1-2.
202. Lerner SP, Kohama SG, Finch CE (1990) Studies on the effects of age, ovarian steroids, and genotype on reproductive neuroendocrine changes in female mice. In: Genetic Effects on Aging II (Harrison DE, ed.), p. 429-436. Caldwell, New Jersey: Telford Press.
203. Finch CE, Kohama SG, May PC, Lerner SP (1990) Ovarian, genotypic, and neurotoxin influences on female reproductive senescence in C57BL mice. In: Ovarian Secretions and Cardiovascular and Neurological Functions (Naftolin F, ed.), p. 307-311. Serono Symposium Publication, No. 80. New York: Raven Press.
204. Finch CE, Masters JN, Nichols NR (1990). Molecular mechanisms in the neurobiology of stress: Analysis of corticosterone-responsive mRNA from rat hippocampus. In: Stress and the Aging Brain (Nappi G, et al., eds.), p. 77-82. New York: Raven Press.
205. Poirier J, Hess M, May PC, Pasinetti G, Finch CE (1990) Astroglial gene expression in the hippocampus following deafferentation in the rat and in Alzheimer's disease. In: Basic, Clinical, and Therapeutic Aspects of Alzheimer's and Parkinson's Diseases, (Vol. 1), (Nagatsu T, et al., eds.), p. 191-194. New York: Plenum Press.

## **1991**

206. Nichols NR, Laping NJ, Day JR, Finch CE (1991) Increases in transforming growth factor-beta mRNA in hippocampus during response to entorhinal cortex lesions in intact and adrenalectomized rats. J Neurosci Res 28:134-139.
207. McNeill TH, Masters JN, Finch CE (1991) Effects of chronic adrenalectomy on neuron loss and distribution of sulfated glycoprotein-2 in the dentate gyrus of prepubertal rats. Exp Neurol 111:140-144.
208. Poirier J, Hess M, May PC, Finch CE (1991) Cloning of hippocampal poly(A)RNA sequences that increase after entorhinal cortex lesion in adult rat. Mol Brain Res 9:191-195.
209. Goss JR, Finch CE, Morgan DG (1991) Age-related changes in glial fibrillary acid protein mRNA in the mouse brain. Neurobiol Aging 12:165-170.
210. Pasinetti G, Morgan DG, Finch CE (1991) Disappearance of GAD mRNA and tyrosine hydroxylase following striatal ibotenic acid lesions: Evidence for transneuronal regression. Exp Neurol 112:131-139.
211. Laping NJ, Nichols NR, Day JR, Finch CE (1991) Corticosterone differentially regulates the bilateral response of astrocyte mRNAs to entorhinal cortex lesions in male rats. Mol Brain Res 10:291-297.

212. Poirier J, Hess M, May PC, Finch CE (1991) Astrocytic apolipoprotein E mRNA and GFAP mRNA in hippocampus after entorhinal cortex lesioning. Mol Brain Res 11:97-106.
213. Pasinetti GP, Finch CE (1991) Sulfated glycoprotein-2 (SGP-2) mRNA is expressed in rat striatal astrocytes following ibotenic acid lesions. Neurosci Lett 130:1-4.
214. Lampert-Etchells M, McNeil TH, Laping NJ, Zarow C, Finch CE, May PC (1991) Sulfated glycoprotein-2 is increased in rat hippocampus following entorhinal cortex lesioning. Brain Res 653:101-106.
215. Nichols NR, Finch CE (1991) Transforming growth factor- $\beta$ 1 mRNA in rat brain decreases in response to glucocorticoid treatment. Mol Cell Neurosci 2:221-227.
216. Uenishi N, Shors TJ, Nichols NR, Finch CE, Thompson RF (1991) Increased synthesis of two polypeptides in area CA1 of the hippocampus in response to repetitive electrical stimulation. Brain Res 567:248-252.
217. Pasinetti GM, Kohama S, Rheinhard JF Jr, Cheng HW, McNeill TH, Finch CE (1991) Striatal responses to decortication. I, Dopaminergic and astrocytic activities. Brain Res 567:253-259.
218. Lerner SP, Finch CE (1991) The major histocompatibility complex and reproductive functions. Endocrine Rev 12:78-90.
219. Johnson SA, Finch CE (1991) Amyloid precursor protein (APP) mRNA: An update on differential APP transcript abundance in relation to regional neuropathology in Alzheimer's disease. PRIT Symposium Excerpta Medica International Congress, August 1990.
220. Kohama SG, Finch CE, May PC (1991) Influence of N-methyl aspartic acid lesions in adult mice on estrous cyclicity and related neuroendocrine parameters. Meth Neurosci 7:241-255.
221. Morgan DG, Finch CE, Johnson SA (1991) RNA metabolism in Alzheimer's disease: Selective increase in GFAP RNA. In: Alzheimer's Disease: Basic Mechanisms, Diagnostics, and Therapeutic Strategies (Iqbal K, McLachlan DRC, Winblad B, Wiesniewski MH, eds.), p. 407-416. New York: John Wiley and Sons.
222. Pasinetti GP, Cheng HW, Reinhard JF, Finch CE, McNeill TH (1991) Molecular and morphological correlates following neuronal deafferentation. In: Plasticity and Regeneration of the Nervous System (Timiras PS, Privat A, Giacobinni E, Lauder J, Vernadakis A, eds.). Plenum Press, Adv Exp Biol Med 296:249-255.
223. Hazard DG, Finch CE (1991) Introduction to meeting report: NIA Workshop on alternative animal models for research on aging. Exp Gerontol 26:411-412.
224. Finch C (1991) New models for new perspectives in the biology of senescence. Neurobiol Aging 12:625-634.
225. Finch CE (1991) Middle-age: An evolving frontier in gerontology (editorial). Neurobiol Aging 12:1-2.
226. Finch CE, Ricklefs RE (1991) Age structure of populations (letter). Science 254:799.
227. Sapolsky RM, Finch CE (1991) On growing old. The Sciences (Mar/April): 30-38.

## **1992**

228. Mobbs CV, Finch CE (1992) Estrogen-induced neuroendocrine impairment as a mechanism of senescence in female C57BL/6J mice. J Gerontol 47:B48-51.
229. Nelson JF, Felicio LS, Osterburg HH, Finch CE (1992) Differential contributions from ovarian and extraovarian factors to age-related reductions in plasma estradiol and progesterone during the estrous cycle of C57BL/6J mice. Endocrinology 130:805-810.
230. Kohama SG, Brown SA, Finch CE, McNeill TH (1992) Chronic estradiol administration did not cause loss of hypothalamic or TIDA neurons in young or middle-aged C57BL/6J mice. Brain Res 574:341-345.
231. Telford N, May PC, Sinha YN, Porter JC, Finch CE (1992) DOPA accumulates in the hypothalamic-hypophysial portal vessels and is taken into the anterior pituitary of NSD-1015 treated rodents. Neuroendocrinology 55:390-395.
232. Pasinetti GM, Osterburg HH, Kelly AB, Kohama S, Morgan DG, Rheinhard JF Jr., Stellwagen RH, Finch CE (1992) Slow changes of tyrosine hydroxylase gene expression in dopaminergic neurons after neurotoxin lesioning: a model for neuron aging. Mol Brain Res 13:63-73.
233. Schreiber SS, Tocco G, Najm I, Finch CE, Johnson SA, Baudry M (1992) Absence of c-fos induction in neonatal rat brain after seizures. Neurosci Lett 136:31-35.
234. Day JR, Min BH, Laping NJ, Martin GIII, Finch CE (1992) New mRNA probes for hippocampal responses to entorhinal cortex lesions in the adult male rat: a preliminary report. Exp Neurol 117:97-99.
235. Lerner SP, Anderson CP, Harrison D, Walford RL, Finch CE (1992) Polygenic influences on the length of oestrus cycles in inbred mice involve MHC alleles. Eur J Immunogenet 19:361-371.
236. Pasinetti GM, Johnson SA, Rozovsky I, Lampert-Etchells M, Morgan DG, Gordon MN, Morgan TE, Willoughby DA, Finch CE (1992) Complement C1qB and C4 mRNA responses to lesioning in rat brain. Exp Neurol 118:117-125.
237. Johnson SA, Lampert-Etchells M, Rozovsky I, Pasinetti G, Finch C. (1992) Complement mRNA in the mammalian brain: Responses to Alzheimer's disease and experimental lesions. Neurobiol Aging 13:641-648.
238. May PC, Telford N, Salo D, Anderson CP, Kohama SG, Finch CE, Walford RL, and Weindruch R (1992) Failure of dietary restriction to retard age-related neurochemical changes in mice. Neurobiol Aging 13:787-791.
239. Willoughby DA, Johnson SA, Pasinetti GM, Tocco G, Najm I, Baudry M, Finch CE (1992). Amyloid precursor protein mRNA encoding the Kunitz protease inhibitor domain is increased by kainic acid-induced seizures in rat hippocampus. Exp Neurol 118:332-339.
240. May PC, Finch CE (1992) Sulfated glycoprotein-2: New relationships of this multifunctional protein to neurodegeneration. Trends Neurosci 15:391-396.
241. McEwen BS, Finch CE (1992) Remembrance of Alfred E Mirsky. Endocrinology 130:6-7.
242. Finch CE (1992) Want a long life? Get a few good pairs of Mhc genes. Natural History (February). pp. 44-45.

243. Finch CE, Kohama SG, Pasinetti GP (1992). Ovarian steroid and neurotoxin models of brain aging in rodents. In: Neurotoxins and Neurodegenerative Disease (Langston JW, Young A, eds.). Ann NY Acad Sci 648:119-124.
244. Finch CE, Kohama SG, Pasinetti GP (1992). Ovarian steroid and neurotoxin models of brain aging in rodents. In: Neurotoxins and Neurodegenerative Disease (Langston JW, Young A, eds.). Ann NY Acad Sci 648:119-124.

## **1993**

245. Randerath K, Putnam KL, Osterburg HH, Johnson SA, Morgan DG, Finch CE (1993) Age-dependent increases of DNA adducts (I-compounds) in human and rat brain DNA. Mutation Res 295:11-18.
246. Pasinetti GM, Cheng HW, Morgan DG, Lampert-Elchells M, McNeill TH, Finch CE (1993) Astrocytic responses to striatal deafferentation in male rat. Neuroscience 53:199-211.
247. Pasinetti GM, Nichols NR, Tocco G, Morgan T, Laping N, Finch CE (1993) Transforming growth factor- $\beta$ 1 (TGF-  $\beta$ 1) and fibronectin mRNA in rat brain: responses to injury and cell-type localization. Neuroscience 54:893-907.
248. Lapchak PA, Araujo D, Beck KD, Finch CE, Johnson SA, Hefti F (1993) BDNF and *trkB* expression in the aging rat brain. Neurobiol Aging 14:121-126.
249. Morgan TE, Nichols NR, Pasinetti GM, Finch CE (1993) TGF- $\beta$ 1 mRNA increases in macrophage/microglia cells of the hippocampus in response to deafferentation and kainic acid-induced neurodegeneration. Exp Neurol 120:291-301.
250. Day JR, Laping NJ, Lampert-Elchells M, Brown SA, O'Callaghan JP, McNeill TH, Finch CE (1993) Gonadal steroids regulate the expression of GFAP in the adult male rat hippocampus. Neuroscience 55:435-443.
251. Lampert-Elchells M, Pasinetti GM, Finch CE, Johnson SA (1993) Regional localization of cells containing C1qb and C4 mRNAs in the frontal cortex during Alzheimer disease. Neurodegeneration 2:111-121.
252. Beck K, Schauwecker E, Lamballe F, Klein R, Barbacid M, McNeill TH, Finch CE, Hefti F, Day JR (1993) Induction of noncatalytic Trk-B neurotrophin receptors during axonal sprouting in the adult hippocampus. J Neurosci 13:4001-4014.
253. Nichols NR, Day JR, Laping NJ, Johnson SA, Finch CE (1993) GFAP mRNA increases with age in rat and human brain. Neurobiol Aging 14:421-429.
254. Berkman LF, Seeman TE, Albert M, Blazer D, Kahn R, Mohs R, Finch C, Schneider E, Cotman C, McClearn G, Nesselroade J, Featherman D, Garmezy N, McKhann G, Brim O, 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. J Clin Epidemiol 46:1129-1140.
255. Finch CE (1993) Neuron atrophy during aging: programmed or sporadic? Trends Neurosci 16:104-110.
256. Finch CE (1993) Corrigenda: aged dogs, space, and scissors. Trends Neurosci 16:352.
257. Finch CE, Laping NJ, Morgan NE, Nichols NR, Pasinetti GM (1993) Hypothesis: Transforming growth factor  $\beta$ 1 is an organizer of responses to neurodegeneration. J Cell Biochem 53:314-322.

258. Finch CE, McNeill (1993) Neuroplasticity of the hippocampus and striatum: for aging and neurodegenerative disease. In: Synaptic Plasticity: Molecular, Cellular, and Functional Aspects (Davis J, Baudry M, Thompson R, eds.), p. 45-72. Cambridge, Massachusetts: MIT Press.
259. Finch C, Day J, Huang C, Johnson S, Laping N, Morgan T, Nichols N, Pasinetti G, Rozovsky I (1993) Molecular and neuroendocrine mechanisms in age-related astrocytosis and neurodegeneration (1st Int. Winter Conf. on Neurodegeneration). In: Adv Res Neurodegen (Calne D, ed.), p. 11-23. Boston: Birkhauser.
260. Finch CE (1993) Theories of aging. (FRAR Course on Laboratory Approaches to Aging, San Pietro al Natisone, Sept. 8-13, 1991). Aging Clin Exp Res 5:277-289.
261. Poirier J, Finch CE (1993) Neurochemistry of the aging human brain. In: Principles of Geriatric Medicine (Hazzard W, ed.), 2nd edition, p. 1005-1012. York, PA: McGraw Hill.
262. Rose MR, Finch CE (1993). The janiform genetics of aging. In: Genetics of Aging (Rose MR, Finch CE, eds.). Genetica (Special Issue) 91:3-10.

## **1994**

263. Pasinetti GM, Johnson SA, Oda T, Rozovsky I, Finch CE (1994) Clusterin (SGP-2): A multifunctional glycoprotein with selective regional expression in astrocytes and neurons of adult rat brain. J Comp Neurol 339:387-400.
264. Laping NJ, Morgan TE, Nichols NR, Rozovsky I, Young-Chan C, Zarow C, Finch CE (1994) Transforming growth factor- $\beta$ 1 induces neuronal and astrocyte genes: Tubulin  $\beta$ 1, glial fibrillary acidic protein, and clusterin. Neuroscience 58:563-572.
265. Johnson SA, Pasinetti GM, Finch CE (1994) Expression of complement C1qB and C4 mRNAs during rat brain development. Devel Brain Res 80:163-174.
266. Masters JN, Finch CE, Nichols NR (1994) Rapid increase in glycerol phosphate dehydrogenase mRNA in adult rat hippocampus: A glucocorticoid-dependent stress response. Neuroendocrinology 60:23-35.
267. Rozovsky I, Morgan TE, Willoughby DA, Dugich-Djordjevic MN, Pasinetti GM, Johnson SA, Finch CE (1994) Selective expression of clusterin (SGP-2) and complement C1q and C4 during responses to neurotoxins *in vivo* and *in vitro*. Neuroscience 62:741-758.
268. Cheng HW, Jiang T, Brown SA, Pasinetti GM, Finch CE, McNeill TH (1994) Response of striatal astrocytes to neuronal deafferentation: An immunocytochemical and ultrastructural study. Neuroscience 62:425-439.
269. Laping NJ, Nichols NR, Day JR, Johnson SA, Finch CE (1994) Transcriptional control of hippocampal glial fibrillary acidic protein and glutamine synthetase *in vivo*: Opposite responses to corticosterone. Endocrinology 135:1928-1933.
270. Laping NJ, Teter B, Anderson C, O'Callaghan JP, Johnson SA, Finch CE (1994) Age-related increases in glial fibrillary acidic protein are not associated with proportionate changes in transcription rates or DNA methylation in the cerebral cortex and hippocampus of male rats. J Neurosci Res 39:710-717.

271. Teter B, Osterburg HH, Anderson C, Finch CE (1994) Methylation of the rat glial fibrillary acidic protein gene shows tissue-specific domains. J Neurosci Res 39:680-693.
272. Teter B, Finch CE, Condorelli DF (1994) DNA methylation in the glial fibrillary acidic acid protein gene: Map of methylation sites and summary of analysis by restriction enzymes and by LMPCR. J Neurosci Res 39:708-709.
273. Anderson C, Bernick S, Nimni M, Lerner S, Finch CE, Strates BS (1994) Effects of genotype and ovariectomy on the skeleton of aging mice. Eur J Exp Musculoskel Res 3:61-70.
274. Oda T, Pasinetti GM, Osterburg HH, Anderson C, Johnson SA, Finch CE (1994) Purification and characterization of brain clusterin. Biochem Biophys ResComm 204:1131-1136.
275. Finch CE (1994) Commentary on the ApoE hypothesis of allele-specific promotion of NFT formation of Strittmatter et al. Exp Neurol 125:172-173.
276. Finch CE (1994) Commentary latent capacities for gametogenic cycling in the semelparous invertebrate *Nereis*, DW Golding and E Yuwono. Proc Natl Acad Sci USA 91:11769-11770.
277. Finch CE (1994) Biochemistry of aging in the mammalian brain. In: Basic Neurochemistry (Siegel GJ, Agranoff BW, Albers RW, Molinoff PW, eds.), 5th ed., p. 627-644.
278. Finch CE (1994) The evolution of ovarian oocyte decline with aging and possible relationships to Down syndrome and Alzheimer disease (NIA Workshop on Menopause, March 22, 1993). Exp Gerontol 29:299-304.
279. Finch CE (1994) Comparative perspective on phenotypic plasticity in the SAM mouse strains. In: The SAM Model of Senescence (Takeda T, ed.). Excerpta Medica Int Congress Ser 1062:3-7, Amsterdam: Elsevier Science.
280. Finch CE (1994) Therapeutic targets in Alzheimer disease: Suggestions for the NIA. Neurobiol Aging 15 (Suppl 2):S183-S185.
281. Finch CE, Day JR (1994) Molecular biology of aging in the nervous system. A synopsis of the levels of mechanisms. In: Neurodegenerative Diseases (Calne DB, ed.), p. 33-50. Orlando, Florida: Saunders.
282. Finch CE, Nelson JF (1994) Genotypic influences on reproduction and reproductive aging in mice: Influences from alleles in the H-2 and other loci. In: The Reproductive Neuroendocrinology of Aging and Drug Abuse (Sarkar DK, Barnes CD, eds.), p. 92-108. CRC Press.
283. Laping NJ, Teter B, Nichols NR, Rozovsky I, Finch CE (1994) Glial fibrillary acidic protein: Regulation by hormones, cytokines, and growth factors. Brain Pathol 4:259-274.
284. Nichols NR, Masters JN, Finch CE (1994) Cloning of steroid-responsive mRNAs by differential hybridization. In: Neurobiology of Steroids (de Kloet R, ed.). Meth Neurosci 22:296-313.
285. Nichols NR, Finch CE (1994) Gene products of corticosteroid action in hippocampus. Ann NY Acad Sci 746:145-154.
286. vom Saal FS, Finch CE, Nelson JF (1994) The natural history of reproductive aging in humans, laboratory rodents, and selected other vertebrates. In: Physiology of

Reproduction, (Vol. 2), (Knobil E, ed.), 2nd ed, p. 1213-1314. New York: Raven Press.

## **1995**

287. Kohama SG, Goss JR, McNeill TH, Finch CE (1995) GFAP mRNA increases at proestrus in the arcuate nucleus of mice. Neurosci Lett 183:164-66.
288. Kohama SG, Goss JR, Finch CE, McNeill TH (1995) Increases of glial fibrillary acidic protein in the aging female mouse brain. Neurobiol Aging 16:59-67.
289. Krohn K, Laping NJ, Morgan TE, Finch CE (1995) Expression of vimentin increases in the hippocampus and cerebral cortex after entorhinal cortex lesioning and in response to TGF-  $\beta$ 1. J Neuroimmunol 56:53-63.
290. Nichols NR, Finch CE, Nelson JF (1995) Food restriction delays the age-related increases of GFAP mRNA in rat hypothalamus. Neurobiol Aging 16:105-110.
291. Morgan TE, Laping NJ, Rozovsky I, Oda T, Hogan H, Finch CE, Pasinetti GM (1995) Clusterin expression in astrocytes is influenced by TGF-  $\beta$ 1 and heterotypic cell interactions. J Neuroimmunol 58:101-110.
292. Rozovsky I, Laping NJ, O'Callaghan JP, Finch CE (1995) Transcriptional regulation of GFAP expression by corticosterone in vitro is influenced by the duration of time in culture and by neuron-astrocyte interactions. Endocrinology 136:2066-2073.
293. Zarow C, Finch CE (1995) Limited responses of neuronal mRNAs to ipsilateral lesioning of the rat entorhinal cortex. Neurosci Lett 185:87-90.
294. Bertrand P, Poirier J, Oda T, Finch CE, Pasinetti GM (1995) Association of apolipoprotein E genotype with brain levels of apolipoprotein E and apolipoprotein J (clusterin) in Alzheimer disease. Mol Brain Res 33:174-178.
295. Smale G, Nichols NR, Brady DR, Finch CE, Horton W (1995) Evidence for apoptotic cell death in Alzheimer's disease. Exp Neurol 133:225-230.
296. Oda T, Lehrer-Graiwer J, Finch CE, Pasinetti GM (1995) Complement and  $\beta$ -amyloid ( $A\beta$ ) neurotoxicity in vitro: A model for Alzheimer disease. Alzheimer's Res 1:29-34.
297. Oda T, Wals P, Osterburg HH, Johnson SA, Pasinetti GM, Morgan TE, Rozovsky I, Stine WB, Snyder SW, Holzman TF, Krafft GA, Finch CE (1995) Clusterin (apoJ) alters the aggregation of amyloid $\beta$ -peptide ( $A\beta_{1-42}$ ) and forms slowly sedimenting  $A\beta$  complexes that cause oxidative stress. Exp Neurol 136:22-31.
298. Ottinger MA, Finch CE (1995) Introduction: Reproductive aging in field birds. Am Zool 35:297-298.
299. Ottinger MA, Nisbet IC, Finch CE (1995) Aging and reproduction: Comparative endocrinology of the common tern and Japanese quail. Am Zool 35:299-305.
300. Finch CE, Rose MR (1995) Hormones and the physiological architecture of life history evolution. Q Rev Biol 70:1-52.
301. Finch CE (1995) Non-genetic factors in the individuality of brain aging: Cell numbers, developmental environment, and disease. In: Brain and Memory: Modulation and Mediation of Neuroplasticity (Fifth Conference on the Neurobiology of Learning and Memory), (McGaugh J, ed.), p. 183-189.
302. Finch CE (1995) Book Review: Evolution of Age Structured Populations, Charlesworth B, 2nd edition. Contemp Gerontol 2:144.

303. Finch CE (1995) The plasticity of life histories in natural populations of animals: Insights into the modifiability of human aging processes. In: Strategies to Delay Dysfunctions in Later Life (Butler R, Brody JA, eds.), p. 195-220. New York: Springer.
304. Finch CE, May P (1995) Recent findings on clusterin in neural tissues: Neuroanatomy, cell sources, development and aging, Alzheimer disease and other brain lesions. In: Clusterin: Function in Vertebrate Organ Development and Adaptation (Harmony J, ed.), p. 163-184. Austin, Texas: RG Landis Co.

## **1996**

305. Masters JN, Cotman SL, Osterberg HH, Nichols NR, Finch CE (1996) Modulation of a novel mRNA in brain neurons by glucocorticoid and mineralocorticoid receptors. Neuroendocrinology 63:28-38.
306. Johnson SA, Laping N, Young-Chan CS, Finch CE (1996) Perforant path transection induces complement C9 deposition in hippocampus. Exp Neurol 138:198-205.
307. Finch CE, Pike MC (1996) Maximum lifespan predictions from the Gompertz mortality model. J Gerontol 51:B183-194.
308. Willoughby DA, Rozovsky I, Lo ACY, Finch CE (1996)  $\beta$ -Amyloid precursor protein ( $\beta$ -APP) and RNA are rapidly affected by glutamate in cultured neurons: Selective increase of mRNAs encoding a Kunitz protease inhibitor domain. J Mol Neurosci 6:257-276.
309. Teter B, Rozovsky I, Krohn KK, Anderson CP, Osterberg HH, Finch CE (1996) Methylation of the glial fibrillary acidic protein gene shows novel biphasic changes during brain development. Glia 17:195-205.
310. Yoshida T, Goldsmith S, Morgan TE, Stone D, Finch CE (1996) Transcription supports age-related increases of GFAP gene expression in the male rat brain. Neurosci Lett 215:107-110.
311. Nichols NR, Dokas L, Ting S-M, Kumar S, de Vellis JS, Shors TJ, Uenishi N, Thompson RF, Finch CE (1996) Hippocampal responses to corticosterone and stress, one of which is the 35,000 Mr protein, glycerol phosphate dehydrogenase. J Neuroendocrinol 8:867-876.
312. Pasinetti GM, Tocco G, Sakhi S, Musleh WD, DeSimoni M, Mascarucci P, Schreiber S, Baudry M, Finch CE (1996) Hereditary deficiencies in complement C5 are associated with intensified excitotoxic brain lesions that implicate new roles of the C-system in neuronal and astrocytic functions. Neurobiol Disease 3:197-205.
313. O'Banion K, Finch CE (1996) Editors' Introduction. Inflammatory mechanisms in Alzheimer disease: Overview of this volume and a short history of the subject. Neurobiol Aging 17:669-671.
314. Finch CE, Marchalonis J (1996) An evolutionary perspective on amyloid and inflammatory features of Alzheimer disease. Neurobiol Aging 17:809-815.
315. Finch CE (1996) Biological bases for plasticity during aging of individual life histories. In: The Lifespan Development of Individuals: A Synthesis of Biological and Psychosocial Perspectives, Nobel Symposium (Magnusson D, ed.), p. 488-501. Cambridge University Press.

316. Johnson SA, Finch CE (1996) Changes in gene expression during brain aging, a survey. In: Handbook of the Biology of Aging (Schneider EL, Rowe JW, eds.), 4th ed., p. 300-327.
317. Finch CE, EL Schneider (1996) The biology of aging. In: Cecil Textbook of Medicine (20th ed.), (Bennett JC, Plum F, eds.), p. 12-15. Orlando, Florida: WB Saunders.
- 317a. Finch CE, Hervonen A (1996) Modern biogerontologia lyhyt historia. Gerontologia 10:171-176.

## **1997**

318. Stone DJ, Rozovsky I, Morgan TE, Anderson CP, Hajian H, Finch CE (1997) Astrocytes and microglia respond to estrogen with increased apoE mRNA in vivo and in vitro. Exp Neurol 143:313-318.
319. Morgan TE, Rozovsky I, Goldsmith SK, Stone DJ, Yoshida T, Finch CE (1997) Increased transcription of the astrocyte gene GFAP during middle-age is attenuated by food restriction: Implications for the role of oxidative stress. Free Rad Biol Med 23:524-528.
320. Goldsmith SK, Wals P, Rozovsky I, Morgan TE, Finch CE (1997) Kainic acid and decorticating lesions stimulate the synthesis of C1q protein in adult rat brain. J Neurochem 68:2046-2052.
321. Grewal RP, Yoshida T, Finch CE, Morgan TE (1997) Scavenger receptor messenger RNAs in rat brain microglia are induced by kainic acid lesioning and by cytokines. NeuroReport 8:1077-1081.
322. Major DE, Kessler JP, Cotman CW, Finch CE, Day JR (1997). Life-long dietary restriction attenuates age-related increases in hippocampal GFAP mRNA. Neurobiol Aging 18:523-526.
323. Blom MAA, van Twillert MGH, de Vries SC, Engels F, Finch CE, Veerhuis R, Eikelenboom P (1997) NSAIDS inhibit the IL-1 $\beta$  release from human postmortem astrocytes: The involvement of prostaglandin E<sub>2</sub>. Brain Res 777:210-218.
324. Finch CE, Tanzi RE (1997) The genetics of aging. Science 278:407-411.
325. Finch CE, Goodman MF (1997). Relevance of 'adaptive' mutations arising in non-dividing cells in microorganisms to age-related changes in mutant phenotypes of neuron. Trends Neurosci 20:501-507.
326. Finch CE, Cohen DM (1997) Aging, metabolism, and Alzheimer disease: Review and hypotheses. Exp Neurol 143:82-102.
327. Finch CE (1997) Longevity: Is everything under control? Non-genetic and non-environmental sources of variation. In: Longevity: To The Limits and Beyond (Robine J-M, Vaupel J, Jeune B, Allard M, eds.), pp. 165-178. Heidelberg: Springer-Verlag.
328. Finch CE (1997) Comparative perspective on plasticity in human aging and life spans. In: Between Zeus and the Salmon: The Biodemography of Longevity (Wachter K, Finch CE, eds.), pp. 245-267. Washington, D.C.: National Academy Press.
329. Williams CC, Finch CE (1997) Physical restraint: Not fit for woman, man, or beast (editorial). J Am Geriatr Soc 45:773-775.
330. Finch CE, Morgan TE (1997) Food restriction and brain aging. In: The Aging Brain (Adv Gerontol) (Mattson M, ed.). Adv Cell Aging Gerontol 2:279-298.

331. Grewal RP, Finch CE (1997) Normal brain aging and Alzheimer's disease pathology. In: Pharmacological Treatment of Alzheimer's Disease: Molecular and Neurobiological Foundations (Brioni JD, Decker MW, eds.), pp.179-192. New York: Wiley-Liss.
332. Finch CE (1997) The lifespan development of individuals: The biology of plasticity in individual life histories. In: The Medical Challenge of Complex Traits (Fischer EP, Möller G, eds.), pp. 223-273. Munich: Piper.
333. Schneider LS, Finch CE (1997) Can estrogen prevent neurodegeneration? Drugs and Aging 11:87-95.

### **Abstracts 1997**

1. Chun JT, Morgan TE, Lanzrein A-S, Klein WL, Finch CE (1997) Regulation of fyn protein-tyrosine kinase expression following lesions in rat brain. Soc Neurosci 23:1646.
2. Chromy B, Edwards C, Finch CE, Klein WL, Krafft GA (1997) AFM studies of amyloid  $\beta$ -derived diffusible ligands (ADDLS): Soluble, potent neurotoxic assemblies of A $\beta$ . Soc Neurosci 23:1631.
3. Crispino M, Tocco G, Stone D, Rozovsky I, Arst D, Finch CE, Baudry M (1997) Regulation of synaptotagmin I mRNA in the rat hippocampal formation during the estrous cycle. Soc Neurosci 23:232.
4. Gomi H, Sun W, Chun JT, Finch CE, Thompson RF (1997) Learning induces RNA encoding a CDC2-related kinase. Soc Neurosci 23:780.
5. Klein WL, Barlow A, Chromy B, Edwards C, Freed R, Lambert MP, Morgan TE, Rozovsky I, Trommer B, Viola KL, Wals P, Zhang C, Finch CE, Krafft GA (1997) AADDLS@ soluble A $\beta$  oligomers that cause biphasic loss of hippocampal neuron function and survival. Soc Neurosci 23:1662.
6. Lanzrein A-S, Finch CE, Morgan TE (1997) Protection of glutamate toxicity by clusterin in organotypic hippocampal slices. Soc Neurosci 23:1388.
7. Morgan TE, Rozovsky I, Wals PA, Finch CE (1997) Does the activated state of microglia in the aged brain facilitate the progression of Alzheimer's disease. Soc Neurosci 23:2428.
8. Rozovsky I, Stone DJ, Morgan TE, Hijian H, Finch CE (1997) Microglial ApoE is regulated by estrogen and TGF $\beta$ -1: Role of cell-cell interactions. Soc Neurosci 23:1653.
9. Stone DJ, Rozovsky I, Anderson CP, Morgan TE, Finch CE (1997) Synaptophysin mRNA and protein levels in the rat hippocampus are increased at proestrus. Soc Neurosci 23:595.
10. Xie Z, Wals PA, Finch CE, Goldsmith SK, Morgan TE (1997) Clusterin activates cultured mouse microglia. Soc Neurosci 23:2430.

### **1998**

334. Rozovsky I, Finch CE, Morgan TE (1998) Age-related activation of microglia and astrocytes: In vitro studies show persistence of phenotypes of aging, increased proliferation, and resistance to down-regulation. Neurobiol Aging 19:97-103.

335. Finch CE, Loehlin J (1998) Environmental influences that may precede fertilization: A first examination of the prezygotic hypothesis from maternal age influences on twins. Behav Genet 28:101-106.
336. Stone DJ, Song Y, Anderson CP, Krohn KK, Finch CE, Rozovsky I (1998) Bidirectional transcriptional regulation of glial fibrillary acidic protein (GFAP) by estradiol in vivo and in vitro. Endocrinology 139:3202-3209.
337. Stone DJ, Rozovsky I, Morgan TE, Anderson CP, Finch CE (1998) Increased synaptic sprouting in response to estrogen via an apoE-dependant mechanism: implications for Alzheimer's disease. J Neurosci 18:3180-3185.
338. Lambert MP, Barlow AK, Chromy B, Edwards C, Freed R, Liosatos M, Morgan TE, Rozovsky I, Trommer B, Viola KL, Wals P, Zhang C, Finch CE, Krafft GA, Klein WL (1998) Diffusible, non-fibrillar ligands derived from A $\beta$ <sub>1-42</sub>. Proc Natl Acad Sci USA 95:6448-6453.
339. Finch CE (1998) Variations in senescence and longevity include the possibility of negligible senescence. J Gerontol 53A:B235-239.
340. Finch CE (1998) Alex Comfort: Intellectual eminence in science and humanism. Exp Gerontol 33:11-12.
341. Stone DJ, Rozovsky I, Morgan TE, Finch CE (1998) Aging, estrogens, apolipoprotein E, and dementia. In: Démences et Longévité (Forette F, Christen Y, Boller F, eds.), Proceedings of the 9th National Congress of Gerontology (Paris January 27, 1997), p. 11-27, Fondation National de Gérontologie, INSERM U234.
342. Tanzi R, Finch CE (1998) Presenilin interactions and Alzheimer disease. Letters. Science 279:463-465.
343. Finch CE, Roth GS (1999) Biochemistry of aging in the mammalian brain. In: Basic Neurochemistry (Siegel GJ, Agranoff BW, Albers RW, Fisher SK, Uhler MD, eds.), 6th ed., p. 613-633.
344. Finch CE, Seeman T (1998) Stress theories of aging. In: Handbook of Theories of Aging (Bengtson VL, Schaie KW, eds.), p. 81-97. New York: Springer Publishing Co.

### **Abstracts 1998**

1. Anderson CP, Stone DJ, Rozovsky I, Lopez LM, Song Y, Finch CE (1998) Effects of age-related changes in GFAP expression on the estradiol-induced LH surge in rats. Soc Neurosci 24:1848.
2. Bretsky PM, Stone D, Rozovsky I, McCleary C, Murdock GA, Miller CA, Finch CE, Buckwalter JG, Henderson VW (intr. by Park JM) (1998) Longitudinal cognitive performance decline in women carrying the apolipoprotein E 4 Allele. AFCR Regional Meeting.
3. Edwards C, Stine WB, Chromy B, Kulans L, Lambert M, Priebe G, Finch CE, Klein WL, Krafft GA (1998) Studies of peptide structure and chaperone effects on the assembly and toxicity of amyloid peptides. Soc Neurosci 24:1708.
4. Finch C, Morgan T, Xie Z, Stone D, Lanzrein A-S, Rozovsky I (1998) Glial hyperactivity during aging as an inflammatory process. IPSEN Foundation Conference on Neuroinflammation.
5. Finch CE, Rozovsky I, Stone D, Morgan TE (1998) Glial activation during aging in the rat brain: Gene activation and proliferative potential. Alfred Benzon Symposium:

Molecular biology of aging. Copenhagen.

6. Krohn K, Rozovsky I, Wals P, Teter B, Anderson CP, Finch CE (1998) GFAP transcriptional responses to TGF- $\beta$ 1 and IL-1 $\beta$  in rat astrocytes. Soc Neurosci 24:546.
7. Longo VL, Miyao A, Finch CE (1998) The role of RAS A $\beta$  toxicity: Studies in PC12 cells. Soc Neurosci 24:2137.
8. Morgan TE, Song Y, Xie Z, Stone DJ, Rozovsky I, Anderson CP, Finch CE (1998) Age-associated glial activation in middle-aged BnxF344 rats after acute food restriction. Soc Neurosci 24:1494.
9. Rozovsky I, Stone DJ, Song Y, Wei M, Lopez LM, Anderson CP, Finch CE (1998) Transcriptional regulation of GFAP by estrogen: Role of ere in the rat GFAP promoter. Soc Neurosci 24:1848.
10. Song Y, Stone DJ, Anderson CP, Rozovsky I, Finch CE (1998) Transcriptional regulation of glial fibrillary acidic protein (GFAP) expression in hypothalamus and hippocampus during rat estrous cycle. Soc Neurosci 24:1847.
11. Stone DJ, Rozovsky I, Anderson CP, Morgan TE, Lopez LM, Wei M, Song Y, Finch CE (1998) Interactions of aging and estrogen in the response to Alzheimer's-like deafferentation. Soc Neurosci 24:734.
12. Wei M, Rozovsky I, Stone DJ, Lopez LM, Laping NJ, Finch CE and Morgan TE (1998) Oxidative stress and age-related astrocytic gene expression. Soc Neurosci 24:1495.
13. Xie Z, Wals PA, Walsh JP, Finch CE, Morgan TE (1998) Characterization of clusterin-induced microglial activation. Soc Neurosci 24:1944.

## **1999**

345. Pasinetti GM, Hassler M, Stone D, CE Finch (1999) Glial gene expression during aging in rat striatum and in long-term responses to 6-OHDA lesions. Synapse 31:278-284.
346. Morgan TE, Xie Z, Goldsmith S, Yoshida T, Lanzrein A-S, Stone D, Rozovsky I, Perry G, Smith MA, Finch CE (1999) The mosaic of brain glial hyperactivity during normal aging and its attenuation by food restriction. Neuroscience 89:687-699.
347. Krohn K, Rozovsky I, Wals P, Teter B, Anderson CP, Finch CE (1999) Glial fibrillary acidic protein (GFAP) transcription responses to TGF- $\beta$ 1 and IL-1 $\beta$  are mediated by an NF-1 like site in the near-upstream promoter. J Neurochem 72:1353-1361.
348. Chun JT, Wang L, Pasinetti GM, Finch CE, Zlokovic BV. Glycoprotein 330/megalin (LRP-2) has low mRNA and protein prevalence in brain microvessels and choroid plexus. Exp Neurol 157:194-201.
349. Nisbet IC, Finch CE, Thompson N, Russek-Cohen E, Proudman JA, Ottinger MA (1999) Endocrine patterns during aging in the common tern (*Sterna hirundo*). Gen Comp Endocrinol 114:279-286.
350. Grewal RP, Morgan TE, Finch CE (1999) C1qB and clusterin mRNA are increased in association with sporadic ALS. Neurosci Lett 271:65-67.
351. Finch CE, Sapolsky RM (1999) The evolution of Alzheimer disease, the reproductive schedule, and apoE isoforms. Neurobiol Aging 20:407-428.
352. Crispino M, Stone DJ, Wei L, Anderson CP, Tocco G, Finch CE, Baudry M (1999) Variations in synaptotagmin I, synaptotagmin IV, and synaptophysin mRNA levels during the estrous cycle in rat brain. Exp Neurol 159:574-583.

353. Bretsky PM, Buckwalter JG, Seeman TE, Miller CA, Poirier, J, Schellenberg GD, Finch CE, Henderson VW (1999) Evidence for an interaction between apolipoprotein E genotype, gender, and Alzheimer disease. Alzheimer Dis Assoc Disorders 13:216-221.
354. Gomi H, Sun W, Finch CE, Itohara S, Yoshimi K, Thompson RF (1999) Learning induces a CDC2-related protein kinase, KKIAMRE. J Neurosci 19:9530-9357.
355. Finch CE (1999) Longevity without senescence: Possible examples. In: Paradoxes of Longevity (Robine J-M, Vaupel J, Jeune B, Allard M, eds.), IPSEN Foundation, p. 1-9. Heidelberg: Springer-Verlag.
356. Finch CE, Rozovsky I, Stone D, Morgan TE (1999) Glial activation during aging in the rat brain: gene expression and proliferative potential. In: Alfred Benzon Symposium 44: The Molecular Biology of Aging (Bohr V, Clark B, Stevnsner T, Svejgaard A, eds.), p. 304-315. Copenhagen: Munksgaard.
357. Finch CE, Morgan TE, Xie Z, Stone D, Lanzrein A-S, Rozovsky I (2000) Glial hyperactivity during aging as a neuroinflammatory process. In: Neuro-Immune Interactions (Patterson P, Kordon C, Christen Y, eds.), p. 47-56, Research and Perspectives in Neurosciences (Fondation Ipsen), Berlin: Springer-Verlag.
358. Finch CE (1999) Infrastructure for research on aging rodents: Need for regional facilities to support transgenic studies on aging. Neurobiol Aging 20: 213-215.
359. Sapolsky RM, Finch CE (1999) The Alzheimer's lottery. Natural History 9:22-29.
360. Finch CE (1997) Stress mechanisms and the age-related increase of GFAP transcription in brain astrocytes. In: Developmental correlates of stress system dysfunction: A commemoration of Hans Selye on his 90th birthday. Devel Brain Dysfunction (Special Issue) 10:50-358. (published June 1999).
361. Finch CE (1999) Review of Biology of Aging: Observations and Principles, Robert Arking, 2nd edition. Am J Human Genet 64:1788.

### **Abstracts 1999**

1. Anderson CP, Rozovsky I, Song Y, Lopez LM, Finch CE (1999) Effects of age-related changes in GFAP expression on the estradiol-induced LH surge in rats. Soc Neurosci 25:1960 (777.16).
2. Chromy BA, Nowak RJ, Finch CE, Krafft GA, Klein WL (1999) Stability of small oligomers of A $\beta$ 1-42 (ADDLs). Soc Neurosci 25:2129 (852.5).
3. Finch CE (1999) Fish as models for negligible senescence: AGE, 28th Annual Meeting, June 1999.
4. Finch CE (1999) Hormones in the evolution of aging. Sero Symposium on the Endocrinology of Aging.
5. Finch CE, Morgan TE, Rozovsky I, Stone D, Wei M (1999) Oxidative stress as a mechanism in glial activation during aging. Oxygen Club of California. Santa Barbara, CA, March 6, 1999.
6. Ford CE, Trommer B, Finch CE, Krafft GA, Klein WL (1999) Signaling-induced association between FYN and an 95 kDa tyrosine phosphorylated protein. Soc Neurosci 25:796 (319.14).
7. Kim HJ, Hong ST, Park CJ, Stine WB, Kulans L, Finch CE, Klein WL, Krafft GA (1999) Soluble A $\beta$  oligomers (ADDLS), rather than fibrils exhibit potent neuronal signaling effects. Soc Neurosci 25:2125 (850.5).

8. Lambert MP, Barlow A, Lin J, Priebe G, Viola KL, Zhang C, Finch CE, Krafft GA, Klein WL (1999) Neuron dysfunction and death caused by small A $\beta$  oligomers: Role of signal transduction. *Soc Neurosci* 25:2129 (852.6).
9. Lee S, Chromy BA, Finch CE, Krafft GA, Klein WK (1999) Inducible transgene expression of the Alzheimer's-Associated FYN protein tyrosine kinase in neuronal cell lines. *Soc Neurosci* 25:835 (336.3).
10. Longo, VD, Finch CE (1999) Nonfibrillar A $\beta$ 1-42 (ADDL) causes aconitase inactivation and iron-dependent neurotoxicity. *Soc Neurosci* 25:2129 (852.3).
11. Miyao A, Longo V, Finch CE (1999) The role of Ras on A $\beta$  and superoxide toxicity to PC12 cells. *Soc Neurosci* 25:340 (135.7).
12. Morgan TE, Wals PA, Mohtashemi I, Stine WB, Klein WL, Krafft GA, Finch CE (1999) A $\beta$ -derived diffusible ligands (ADDLs): Clusterin (apo J), congo red binding and toxicity. *Soc Neurosci* 25:2130 (852.8).
13. Rozovsky I, Stone DJ, Wei M, Anderson CP, Finch CE (1999) Estrogen-injury interactions in astrocyte-neuron co-cultures: Decreased GFAP expression and enhanced neurite outgrowth. *Soc Neurosci* 25:1794 (712.5).
14. Song Y, Stone DJ, Morgan TE, Anderson CP, Rozovsky I, Goldsmith SK, Finch CE (1999) Interactions of estradiol and deafferenting lesions with astrocytic GFAP expression. *Soc Neurosci* 25:1449 (581.8).
15. Stine WB, Kulans L, Park CJ, Lambert M, Konduphotla S, Hu J, Van Eldik LJ, Finch CE, Klein WL, Krafft GA (1999) The HHQK domain of amyloid beta is required for glial activation but not activity in cultured neuronal cells. *Soc Neurosci* 25:1107 (450.11).
16. Viola KL, Lambert PM, Morgan TE, Finch CE, Krafft GA, Menco BPM, Klein WL (1999) Immunolocalization of oligomeric A $\beta$ 42 binding to primary mouse hippocampal cells and B103 rat neuroblastoma cells. *Soc Neurosci* 25:2130 (852.7).
17. Wei M, Rozovsky I, Lopez LM, Morgan TE, Finch CE (1999) Oxidative stress and GFAP promoter activity. *Soc Neurosci* 25:1317 (532.5).
18. Xie Z, Wals PA, Morgan TE, Finch CE (1999) Signal transduction in clusterin-induced microglial activation. *Soc Neurosci* 25:1103 (449.8).
19. Zanjani H, Lanzrein AS, McKeel DW, Morris JC, Finch, CE (1999) Clusterin and complement components C1q and C3 deposits increased at very early stages of Alzheimer disease (AD). *Soc Neurosci* 25:1102 (449.2).

## **2000**

362. Stone DJ, Rozovsky I, Morgan TE, Anderson CP, Lopez LL, Shick J, Finch CE (2000) Effects of age on gene expression during estrogen-induced synaptic sprouting in the female rat. *Exp Neurol* 165:46-57.
363. Morgan TE, Rozovsky I, Sarkar DK, Young-Chan CS, Nichols NR, Finch CE (2000) Transforming growth factor- $\beta$ 1 (TGF- $\beta$ 1) induces TGF- $\beta$ 1 and TGF- $\beta$ 1 receptor mRNAs and reduces complement C1qB mRNA in rat brain in microglia. *Neuroscience* 101:313-321.
364. Longo V, Viola KL, Klein WL, Finch CE (2000) Reversible inactivation of superoxide-sensitive aconitase in A $\beta$ 1-42 treated neuronal cell lines. *J Neurochem* 75:1977-1985.

365. Li R, Shen Y, Yang LB, Lue LF, Finch C, Rogers J (2000) Estrogen enhances uptake of amyloid beta-protein by microglia derived from the human cortex. J Neurochem 75:1447-1454.
366. Finch CE, Schneider EL (2000) The biology of aging. In: Cecil Textbook of Medicine (Goldman, Bennett JC, eds.), 21st ed., p. 13-16. Orlando, Florida: WB Saunders.
367. Akiyama H, Barger S, Barnum S, Bradt B, Bauer J, Cole GM, Cooper NR, Eikelenboom P, Emmerling M, Fiebich BL, Finch CE, Frautschy S, Griffin WS, Hampel H, Hull M, Landreth G, Lue L, Mrak R, Mackenzie IR, McGeer PL, O'Banion MK, Pachter J, Pasinetti G, Plata-Salaman C, Rogers J, Rydel R, Shen Y, Streit W, Strommeyer R, Tooyoma I, Van Muiswinkel FL, Veerhuis R, Walker D, Webster S, Wegrzyniak B, Wenk G, Wyss-Coray T (2000) Inflammation and Alzheimer's disease. Neurobiol Aging 21:383-421.
368. Finch CE (2000) Rat 'DI 10' on the long road from diabetes insipidus to Alzheimer disease. Commentary on AMolecular Misreading@ by F. W. van Leeuwen et al. Neurobiol Aging 21:893-895.
369. Gosden RG, Finch CE (2000) Definition and character of reproductive ageing. In: Female Reproductive Ageing, (te Velde ER, Pearson PL, Broekmans FJ, eds.), p. 11-25. New York: Parthenon Publishing.
370. Finch CE, Longo V, Miyao A, Morgan TE, Rozovsky I, Soong Y, Wei M, Xie Z, Zanjani H (2000) Amyloids, inflammatory mechanisms in Alzheimer disease, and aging. In: Molecular Mechanisms in Neurodegenerative Diseases (Chesselet M-F, ed.), p. 87-110. Totowa, NJ: Humana Press.
371. Finch CE, Longo V (2000) The Gero-inflammatory manifold. In: Neuroinflammatory Mechanisms in Alzheimer's Disease: Basic and Clinical Research (Rogers J, ed.), Chap. 1. Basel: Birkhäuser Verlag.
- 372a. Sapolsky R, Finch C (2000) Alzheimer's Disease and some speculations about the evolution of its modifiers. In: Alzheimer's Disease: A Compendium of Current Theories (Khachaturian Z, Mesulam M, eds.). Ann NY Acad Sci 924:99-103.

### **Abstracts 2000**

1. Chromy BA, Nowak RJ, Lambert MP, Viola KL, Stine BW, Finch CE, Krafft GA, Klein WL (2000) Comparative biochemistry of ADDLs and protofibrils. Soc Neurosci 26:1284 (475.8).
2. Kim H-J, Hong S-T, Chromy BA, Lambert MP, Finch CE, Ladu MJ, Klein WL, Krafft GA (2000) Selective neuronal degeneration after exposure to soluble oligomeric amyloid  $\beta$ -protein. Soc Neurosci 26:1784 (663.2).
3. Klein WL, Chromy BA, Lambert MP, Tushan MR, Viola KL, Krafft GA, Finch CE (2000) Oligomer/conformation-dependent A $\beta$  antibodies. Soc Neurosci 26:1285 (465.11).
4. Lambert MP, Viola KL, Chromy BA, Nowak RJ, Krafft GA, Finch CE, Klein WL (2000) Activity assays suggest receptor-mediated ADDL toxicity. Soc Neurosci 26:1285 (475.10).
5. Li R, Shen Y, Finch C, Rogers J (2000) Estrogen enhances uptake of amyloid  $\beta$  protein by microglia derived from the human cortex. Soc Neurosci 26:2048 (763.7).

6. Morgan TE, Rozovsky I, Sarkar DK, Nichols NR, Laping NJ, Finch CE (2000) Autoinduction of the TGF- $\beta$ 1 regulatory system and TGF- $\beta$ 1's role in regulating complement gene expression. Soc Neurosci 26:64 (27.7).
7. Viola KL, Gong Y, Lambert MP, Chromy BA, Krafft GA, Finch CE, Klein WL (2000) Binding site analysis of ADDL-nerve cell interactions. Soc Neurosci 26:1285 (475.9).
8. Xie Z, Morgan TE, Finch CE (2000) Neurotoxicity of activated microglia originated from young and old rats. Soc Neurosci 26:1943 (726.4).

## **2001**

373. Klein WL, Krafft GA, Finch CE (2001) Targeting small A $\beta$  oligomers: the solution to an Alzheimer's disease conundrum? Trends Neurosci 24:219-224.
374. Lambert MP, Viola KB, Chromy BA, Morgan TE, Krafft GA, Finch CE, Klein WL (2001) Vaccination with soluble A $\beta$  oligomers generates toxicity-neutralizing antibodies. J Neurochem 79:595\_605.
375. Finch CE, Austad SN (2001) History and prospects: Symposium on Organisms with Slow Aging. Exp Gerontol 36:593-597.
376. Finch CE, Ruvkun G (2001) Genetics of aging. Annu Rev Genomics Hum Genet 2:435-62.
377. Finch CE (2001) Toward a biology of middle age. In: Handbook of midlife development (Lachman ME, ed.). New York: John Wiley & Sons, pp.77-108 (Chapt 3).
378. Finch CE, Longo VD (2001) The gero-inflammatory manifold. In: Neuroinflammatory Mechanisms in Alzheimer Disease Basic and Clinical Research (Rogers J, ed). Boston: Birkhauser Verlag, pp. 238-58.
379. Finch CE (2001) Forward. In: Functional Neurobiology of Aging (Hof P, Mobbs CV, eds.). Academic Press.

## **2002**

380. Rozovsky I, Wei M, Stone DJ, Zanjani H, Anderson CP, Morgan TE, Finch CE (2002) Estradiol enhances neurite outgrowth by repressing GFAP expression and reorganizing laminin Endocrinology 143: 636-46.
381. Rozovsky I, Hoving S, Anderson CP, O'Callaghan J, Finch CE (2002) Equine estrogens induce apolipoprotein E and glial fibrillary acidic protein in mixed glial cultures. Neurosci Lett 323:191-4.
382. Xie Z, Wei M, Morgan TE, Fabrizio P, Han D, Finch CE, Longo VD (2002). Peroxynitrite mediates neurotoxicity of amyloid Beta-peptide1-42 and lipopolysaccharide-activated microglia. J Neurosci 22:3484-92.
383. Anderson CP, Rozovsky I, Stone DJ, Song Y, Lopez LM, Finch CE (2002). Aging and increased hypothalamic glial fibrillary acid protein (GFAP) mRNA in F344 female rats. Neuroendocrinology 76:121-30.
384. Patel NV, Finch CE (2002) The glucocorticoid paradox of caloric restriction in slowing brain aging. Neurobiol Aging 23: 707-717.
385. Mobbs CV, Bray GA, Atkinson RL, Bartke A, Finch CE, Maratos-Flier E, Crawley JN, Nelson JF (2001). Neuroendocrine and pharmacological manipulations to assess how caloric restriction increases life span. J Gerontol A Biol Sci Med Sci. 56 Special Number 1:34\_44.

386. Finch CE, Morgan TE, Rozovsky I, Xie Z, Weindruch R, Prolla T (2002) Microglia and aging in the brain. In: Microglia in the Regenerating and Degenerating Central Nervous System (Streit WJ, ed.). New York: Springer-Verlag., pp 275- 305.
387. Finch CE (2002) Evolution and the plasticity of aging in the reproductive schedules in long-lived animals: the importance of genetic variation in neuroendocrine mechanisms. In: Hormones, brain, and behavior (Pfaff D, Etgen AA, Fahrbach S, Rubin R, eds.). San Diego, CA: Academic Press, vol 4 (Ch 79), pp 799-820.
388. Wilson CJ, Finch CE, Cohen HJ (2002). Cytokines and cognition--the case for a head-to-toe inflammatory paradigm. J Am Geriatr Soc. 50:2041-56
389. Finch CE (2002) Bernard Strehler: vivid recollections. Exp Gerontol. 123: 827-9.
390. Finch CE (2002) Neurons, Glia, and Plasticity in Normal Brain Aging. In, IHF Workshop on Brain and Behavior in Different Stages of Human Life. Adv Gerontol 10:35-9.
391. Finch CE (2002) A review of Neuroglia in the Aging Brain, Humana Press: Totowa NJ. J Alzheimer's Disease 4: 335-6.
392. Longo W, Finch CE (2002) The genetics of aging and diseases: from rare mutations and model systems to disease prevention. Arch Neurol. 59:1706-8
393. Kirkwood TBL, Finch CE (2002) The old worm more slowly turns: (News and Views). Nature 419: 794-5.

## **Abstracts 2002**

1. Finch CE (2002) Phenotypic plasticity in neuroendocrine functions and aging. In: Functional Genomics of Aging (Special Issue) J Vijg and Y Suh (eds.), Seville April 24-27, 2002, Elsevier.
2. Mucke L, Shockley K, Yu GQ, Chang L, Lambert M, Chromy B, Finch C, Krafft G, Klein W (2002) Vaccination of human amyloid protein precursor transgenic mice with fibrillar A $\beta$  or A $\beta$ -derived diffusible ligands B Can the immune response be focused on the real culprits? Proc 8<sup>th</sup> Int Cong Alzheimer disease, Stockholm. Neurobiol Aging.
2. Finch CE (2002) Brain aging changes pertinent to alcoholism in the elderly: an overview. Prepared for NIAAA Workshop A Neurobiology of Aging and Alcohol@, Sept 10-11, 2002.

## **2003**

394. Longo V, Finch CE (2003) Evolutionary Medicine: From Dwarf Model Systems to Healthy Centenarians. Science 299:1342-1346.
395. Xie Z, Morgan TE, Rozovsky I, Finch CE (2003) Aging and glial responses to lipopolysaccharide in vitro: greater induction of IL-1 and IL-6, but smaller induction of neurotoxicity. Exp. Neurol. 182:135-141.
396. Horiuchi S, Finch CE, Mesle F, and Vallin J (2003) Differential patterns of age-related mortality increase in middle-age and old age. J. Gerontol Ser. A: Biol. Med. Sci. 58:A495-A507.
397. Finch CE, Morgan TE (2003) Inflammatory Processes of Alzheimer Disease and Aging. Proc Indian Natl Science Acad B69:165-178.

398. Chromy BA, Nowak RJ, Lambert MP, Viola KL, Chang L, Velasco PT, Jones BW, Fernandez SJ, Lacor PN, Horowitz P, Finch CE, Krafft GA, Klein WL. Self-assembly of A $\beta$ (1-42) into globular neurotoxins. Biochemistry. 42:12749-12760.
399. Finch CE, Stanford CB (2003) Lipoprotein genes and diet in the evolution of human intelligence and longevity. In: Brain and Longevity, IPSEN Foundation pp.33-67.
400. Finch CE (2003) Neurons, glia, and plasticity in normal brain aging. Neurobiol. Aging, 24:S123–S127
401. Ottinger MA, Ricklefs RE, Finch CE (2003) Proceedings of the Second Symposium on Organisms with Slow Aging (SOSA-2) (Editors) Experimental Gerontology 38:721-818
402. Finch CE (2003) The biology of aging in model organisms. Alzheimer Disease and Associated Disorders 17(2 Suppl):S39-41.
403. Finch CE (2003) Third Annual Leonard Berg Symposium: final thoughts and future directions. Alzheimer Disease and Associated Disorders 17(2 Suppl):S72.
404. Gong Y, Chang, Viola KL, Lacor PN, Lambert MP, Finch CE, Krafft GA, Klein WL (2003) Alzheimer-affected brain: Presence of oligomeric A $\beta$  ligand (ADDLs) suggests a molecular basis for reversible memory loss. PNAS 100:10417-422
405. Finch CE (2003) Synapses everlasting: the passion of Carl Cotman. Neurochem Res, Special Issue, 28(11):1615-1516.
406. Finch CE (2003) Book review: "Longevity: the Biology and Demography of Life Span," James Cary. Quart Rev Biol 78:512-13.
- 406a. Functional genomics of life history evolution. Unpublished ms, presented at School for America Research Nov 2002.

## **2004**

407. Finch CE, Crimmins EM (2004) Inflammatory exposure and historical changes in human life spans. Science 305: 1736-1739.
408. deBruin JP, Gosden RG, Finch CE, Leaman BM (2004). Oocytes, follicles, and aging in two species of long-lived rockfish, *Sebastes aleutianus* and *S. alutus*. Biol Repro, 71:1036-1042
409. Patel NV, Finch CE, Morgan TE (2004) Progressive changes in regulation of apolipoproteins E and J in glial cultures during postnatal development and aging. Neurosci Lett. 371: 199-204.
- 410 Finch CE and Stanford CB (2004). Meat adaptive genes and the evolution of slower aging in humans. Quart Rev Biol. 79:3-50.
411. Teter B, Finch CE (2004). Caliban's heritage and the genetics of neuronal aging. Trends Neurosci. 27:627-632
412. Lacor PN, Buniel MC, Chang L, Fernandez SJ, Gong Y, Viola KL, Lambert MP, Velasco PT, Bigio EH, Finch CE, Krafft GA, Klein WL. ( 2004) Synaptic targeting by Alzheimer's-related amyloid beta oligomers. J Neurosci. 24:10191-10200.
413. Finch CE (2004). Book review: "The Biology of Death: Origins of Mortality," Andre Klarsfeld, Frederic Revah. Nature 428:125.
414. Finch CE (2004). Estrogens, aging, and neurodegenerative diseases. In: *Hormones and the Brain* (IPSEN Foundation Symposium, 2003), C. Kordon et al. (eds.), pp. 213-225.
415. Finch C, Morgan T, Rozovsky I, Wei M (2004). The long thread of GFAP in aging, steroids, and synaptic plasticity. In: Chanson et al., editors, *Endocrine Aspects of Successful Aging*. Berlin: Springer-Verlag, pp. 191-206.
416. Finch CE, Weindruch R (2004). Preface. Exp Gerontol 39:869.
417. Finch CE (2004). Discussion: Dining With Roy. Exp. Gerontol 39:893-894.
418. Finch CE (2004) The neurotoxicology of hard foraging and fat-melts. Commentary. PNAS. 101: 17887-17888.
- 418a. Dialogues in biogerontology between molecular reduction and ecological integration. Contemp Gerontol 11: 3-7

## 2005

419. Patel NV, Gordon MN, Connor KE, Good RA, Engelman RW, Mason J, Morgan DG, Morgan TE, Finch CE (2005). Caloric restriction attenuates A $\beta$ -deposition in Alzheimer transgenic models. *Neurobiol. Aging* 26:995-1000.
420. Finch CE (2005). Developmental origins of aging in brain and blood vessels: an overview. *Neurobiol. Aging*, 26: 281-291.
421. Finch CE, Crimmins EM (2005) We agree with the Darwinian perspectives. Response to Letters to the editor concerning Finch CE and Crimmins EM, *Science* (2004) Inflammatory exposure and historical changes in human life spans, *Science* 305: 1736-1739. Letter in *Science* 307: 208-209.
422. Rozovsky I, Wei M, Morgan TE, Finch CE (2005). Reversible age impairments in neurite outgrowth by manipulations of astrocytic GFAP. *Neurobiol. Aging* 26: 705-715.
423. Xie Z, Wals PA, Finch CE, Morgan TE (2005) Clusterin (apolipoprotein J) activates microglia. *J Neurochem*, 93: 1038-1046.
- 424.** Zhou XJ, Kao MC, Huang H, Wong A, Nunez-Iglesias J, Primig M, Aparicio OM, Finch CE, Morgan TE, Wong WH. (2005) Functional annotation and network reconstruction through cross-platform integration of microarray data. *Nat. Biotechnol.* 23:238-243.
425. Zanjani H, McKeel D, Morris J, Anderson CP, Morgan TE, Finch CE (2005). Complement proteins in senile plaques at early stages of Alzheimer disease. *Alz Dis Rel Disord* 19: 55-66.
426. Finch CE, Crimmins EM (2005) author reply to Barbi E and Vauel JW, Comment on "Inflammatory exposure and historical changes in human life-spans". *Science* 305: 1743b.
427. Finch CE, Zelinski E (2005) Normal aging of brain structure and cognition: evolutionary perspectives. *Res Human Devel* 2:69-82.
- 427a Finch CE (2005) Vladimir Dilman: pioneer in the integrative understanding of pathological aging processes. In: *Hormones and Cancer*, L Bernstein (ed) Petrov Res Inst Oncology, St Petersburg, 34-39.
428. Crimmins EC, Finch CE (2005). Early Life conditions affect historical change in old-age mortality. In: *Longevity and Frailty*, Springer-Verlag, New York City, pp.99-106.
429. Kirkwood TB, Feder M, Finch CE, Franceschi C, Globerson A, Klingenberg CP, LaMarco K, Omholt S, Westendorp RG (2005). What accounts for the wide variation in life span of genetically identical organisms reared in a constant environment? *Mech Ageing Dev.* 126:439-443.
430. Wong AM, Patel NV, Patel NK, Wei M, Morgan TE, de Beer MC, de Villiers WJ, Finch CE. (2005) Macrosialin increases during normal brain aging are attenuated by caloric restriction. *Neurosci Lett.* 390:76-80.
431. Ashford JW, Atwood CS, Blass JP, Bowen RL, Finch CE, Iqbal K, Joseph JA, Perry G. (2005) What is aging? What is its role in Alzheimer's disease? What can we do about it? *J Alzheimers Dis.* 7:247-53; discussion 255-62.

## 2006

432. Crimmins EM, Finch CE (2006) Infection, inflammation, height, and longevity. *PNAS* 103: 498-503.
433. Finch CE (2006) A perspective on sporadic inclusion-body myositis (sIBM): the role of aging and inflammatory processes. *Neurology*; 66(2 Suppl 1):S1-6.
434. Crimmins EM, Finch CE (2006) Commentary: Do older men and women gain equally from improving childhood conditions? *Int J. Epidemiol.* 35:1270-1.
435. Finch CE (2006) Aging, inflammation, and the body electric. *Daedalus* (Winter): 68-76.

## 2007

436. Pan F, Chiu CH, Pulapura S, Mehan MR, Nunez-Iglesias J, Zhang K, Kamath K, Waterman MS, Finch CE, Zhou XJ. (2007) Gene Aging Nexus: a web database and data mining platform for microarray data on aging. *Nucl Acids Res.* 35(Database issue): D756-9.
437. Morgan TE, Wong A, Finch CE (2007) Anti-inflammatory mechanisms of dietary restriction in slowing aging processes. In: *Mechanisms of Dietary Restriction in Aging and Disease*, CV Mobbs, K Yen, and PD Hof (eds). Karger (Basel). *Interdiscipl Topics Gerontol*, 35: 83-97.
438. Finch CE, Morgan TE (2007) Systemic inflammation, infection, ApoE alleles, and Alzheimer disease: a position paper. *Curr. Alz. Res.* 4: 185-189
439. de Magalhães JP, Sedivy JM, Finch CE, Austad SN, and Church GM (2007) A proposal to sequence genomes of unique interest for research on aging. *J Gerontol Biol Sci.* 62A: 583-584.
- 439a. Finch CE (2007) Do neurons produce C1q? Invited Commentary. *Focus on Complement*, Dec 2007, p5.
- 439b. Crimmins EM, Drevenstedt G, Finch CE. 2007. Evolution of the human mortality curve: changes in the age of minimum mortality. Population Assoc America (Abstract), <http://paa2007.princeton.edu>.

## 2008

440. Gurven M, Kaplan H, Winking J, Finch CE, Crimmins EM (2008) Aging and inflammation in two epidemiological worlds. *J Gerontol Med Sci* 63A: 196-199.
441. Drevenstedt GL, Crimmins EM, Vasunilashorn S, Finch CE (2008) The rise and fall of excess male infant mortality. *Proc Natl Acad Sci USA* 105: 5016-5021.
442. Austad SN, Finch CE (2008) The evolutionary context of human aging and degenerative disease. In: *Evolution in Health and Disease*, 2<sup>nd</sup> ed. SC Stearns, JC Koella (eds). Oxford U. Press: New York, pp 301-311.
443. Martin, GM, Finch CE (2008) An overview of the biology of aging: a human perspective. In: *The Molecular Biology of Aging*, D Wallace, L Partridge, L Guarente (eds.), Cold Spring Harbor Press, pp. 113-126.
444. Brinton RD, Thompson RF, Foy MR, Baudry M, Wang J, Finch CE, Morgan TE, Pike CJ, Mack WJ, Stanczyk FZ, Nilsen J. (2008) Progesterone receptors: form and function in brain. *Frontiers Neuroendocrinol.* 29:313-39.

445. Finch CE (2008) Comment on Palsdottir et al: A drastic reduction in the life span of cystatin C L68Q carriers due to life-style changes during the last two centuries. PLoS Genet 2008. The Alzheimer Research Forum, July 2, 2008.
446. Faghihi MA, Modarresi F, Khalil AM, Wood DE, Sahagan BG, Morgan TE, Finch CE, St Laurent G 3rd, Kenny PJ, Wahlestedt C. (2008) Expression of a noncoding RNA is elevated in Alzheimer's disease and drives rapid feed-forward regulation of beta-secretase. Nat Med. 14:723-30.
447. Finch CE (2008) Lipids and lifespans: constants and contradictions. Exp Gerontol. 43:716-7.
- 447a. Finch CE 2008. Review of book: Evolution of the human diet: the known, the unknown, and the unknowable. P. Unger (ed.) Q Rev Biol 83: 106.

## 2009

448. Wong A, Rozovsky I, Arimoto JM, Du Y, Wei M, Morgan TE, Finch CE (2009) Progesterone influence on neurite outgrowth involves microglia. Endocrinology, 150:324-332.
449. Finch CE (2009) The neurobiology of middle-age has arrived. Neurobiol Aging 30: 515-520.
450. Finch CE (2009) Update on negligible senescence. Gerontology 55: 307-313.
451. Finch CE (2009) Herodotus on longevity. How the Persian fed on dung and lived but 80, while the tall handsome Ethiopians at boiled meat at lived beyond 120. J Aging, Humanities, & Arts 3: 86-96.
452. Finch CE (2009) The gerevolutions of Bob Butler. Gerontologist. 49:577-580.
453. Gurven M, Kaplan H, Winking J, Rodriguez DE, Vasunilashorn S, Kim J-K, Finch CE, Crimmins EM (2009) Inflammation and infection do not promote arterial aging and cardiovascular disease risk factors among lean horticulturalists. PLoS One 4:e6590.

## 2010

454. Mazumder B, Almond D, Park K, Crimmins EM, Finch CE (2010) Lingering prenatal effects of the 1918 Influenza Pandemic on cardiovascular disease. J Devel Origins Health Dis 1:26-34.
455. Finch CE (2010) Evolution of the human lifespan and diseases of aging: roles of infection, nutrition, and nutrition. PNAS, 107 (suppl. 1) 1718-1724.
456. de Magalhães JP, Finch CE, Janssens G. (2010) Next-generation sequencing in aging research: Emerging applications, problems, pitfalls and possible solutions. Ageing Res Rev 9: 315-323. PubMed PMID: 19900591.
457. Nunez-Iglesias J, Liu JC, Morgan TE, Finch CE, Zhou XJ (2010) Joint genome-wide profiling of miRNA and mRNA expression in Alzheimer's disease cortex reveals altered miRNA regulation. PLoS, 5(2):e8898.
458. Finch CE, Holmes DJ (2010) Ovarian aging in developmental and evolutionary context. Ann. N.Y. Acad. Sci. 1204: 82-94.
- 459 Finch CE, Morgan TE, Longo VD, de Magalhaes JP (2010) Cell resilience in species lifespans: a link to inflammation? Aging Cell 9: 519-526.
460. Blagosklonny MV, Campisi J, Sinclair DA, Bartke A, Blasco MA, Bonner WM, Bohr VA, Brosh RM Jr, Brunet A, Depinho RA, Donehower LA, Finch CE, Finkel T, Gorospe M, Gudkov AV, Hall MN, Hekimi S, Helfand SL, Karlseder J, Kenyon C, Kroemer G, Longo V, Nussenzweig A, Osiewacz HD, Peeper DS, Rando TA, Rudolph KL,

- Sassone-Corsi P, Serrano M, Sharpless NE, Skulachev VP, Tilly JL, Tower J, Verdin E, Vijg J. (2010) Impact papers on aging in 2009. Aging (Albany NY) 2:111-121.
461. Rae MJ, Butler RN, Campisi J, de Grey ADNJ, Finch CE, Gough M, Martin GM, Vijg J, Logan BJ. The demographic and biomedical case for late-life interventions in aging. Science Translational Medicine 2(40): 1-6; 2(40):40cm21
462. Finch CE (2010) Inflammation in aging processes: an integrative and ecological perspective. In, Handbook of the Biology of Aging, 7<sup>th</sup> ed., E Masoro & S Austad, eds, Academic Press: San Diego), pp. 275-296.
463. Finch CE (2010) Evolving views of ageing and longevity from Homer to Hippocrates: emergence of natural factors, persistence of the supernatural. Greece & Rome 57: 355-377.
464. Vasunilashorn S, Crimmins EM, Kim J-K, Winking J, Gurven M, Kaplan H, Finch CE (2010) Blood lipids, infection and inflammatory markers in the Tsimane of Bolivia, a highly infected population. J Human Biol 22: 731-740.
465. Finch CE (2010). Book review: Secrets of a long life. Two books on ageing understate the challenges of prolonging a healthy lifespan: review of *The Youth Pill: Scientists at the Brink of an Anti-aging Revolution* (David Stipp) and *Long for this World: the Strange Science of Immortality* (Jonathan Weiner). Nature 467: 274-275.
466. Chui HC, Finch CE (2010) NY Times Letter on Alzheimer's and cerebrovascular disease, Sept 7, 2010.

## 2011

467. Finch CE (2011). Richard Thompson, the age-less titan of brain science. Neurobiol Learning Memory 95:105.
468. Finch CE, Austad SN (2011) Blind cave salamanders age very slowly: A new member of Methuselah's bestiary. Bioessays 33: 27-29. PubMed PMID: 21031431.
469. Morgan TE, Davis DD, Iwata N, Tanner JM, Snyder D, Ning Z, Kam W, Hsu YT, Winkler JW, Chen JC, Petasis NA, Baudry M, Sioutas C, Finch CE. Glutamatergic neurons in rodent models respond to nanoscale particulate urban air pollutants *in vivo* and *in vitro*. Env Health Perspect 119:1003-1009.
470. Vasunilashorn S, Finch CE, Crimmins EM, Stieglitz J, Gurven M, Kaplan H, Allayee H (2010). Inflammatory gene variants in the Tsimane, an indigenous Bolivian population with a high inflammatory load. Biodemogr Social Biol. 22:731-740.
471. McCarthy MS, Finch CE, Stanford CB. (2011) Social dominance predicts long life expectancy in male chimpanzees (*Pan troglodytes*). Abstract 3189, poster presentation, 34rd Meeting of the American Society of Primatologists. 73 (S1), 87.
472. Kirkwood TB, Cordell HJ, Finch CE (2011) Speed-bumps ahead for the genetics of later-life diseases. Trends in Genetics. 27:387-388.
473. Finch CE (2011) Atherosclerosis is an Old Disease: Summary of the Ruffer Centenary Symposium, The Paleocardiology of Ancient Egypt, a meeting report of the Horus Study team Exp Gerontol, in press.
474. Finch CE, Austad SA (2011) Primate aging in the mammalian scheme: the puzzle of extreme variation in brain aging. AGE (Special Issue) Nonhuman Primate Models of Aging. J Am Aging Assoc, in press
475. Bali N, Arimoto JM, Iwata N, Lin S, Mao Z, Zhao L, Brinton RD, Morgan TE, Finch CE. Differential responses of progesterone receptor membrane component-1 (*Pgrmc1*) and the

classical progesterone receptor (*Pgr*) to 17 $\beta$ -estradiol and progesterone in hippocampal subregions that support synaptic remodeling and neurogenesis. Endocrinology.

476. Kremsky I., Morgan TE, Hu, X, Li L. Finch CE. Age-related changes in glial gene expression are modified by interactions with neurons. Brain, Behav, Immunity, Special Issue on Aging, in press.

Submitted

477. Zhang H, Liu H, Davies KJ, Sioutas C, Finch CE, Morgan TE, Forman HJ. Nrf2-regulated phase II enzymes are induced by chronic ambient nanoparticle exposure in young mice with age-related impairments. Env Health Perspect

**In prep.\***

475 Beltrán-Sánchez H, Crimmins EM, Finch CE Early cohort mortality predicts the cohort rate of aging: an historical analysis.

Finch CE The Climate of aging (editorial), submitted.

\*Finch CE and Crimmins EM. Genomics of inflammation and longevity in the postDarwian escape. Aging Cell.

\*Morgan TE, Bali N, Hou X, Klaidman L, DeMeo A, O'Callaghan JP, McCrory MA, Szalai AJ, Finch CE. New models for the neurobiology of C-reactive protein in aging and Alzheimer Disease.