

Thomas E. Johnson

CURRENT POSITIONS:

Professor of Behavioral Genetics

Faculty Fellow

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Buck Institute for Age Research
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University of Colorado Biofrontiers Institute
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Box 595, Boulder CO 80309

PROFESSIONAL EXPERIENCE:

2010	Visiting Professor, Institute for Ageing and Health, New Castle University
2004 – present	Professor, Department of Integrative Physiology, University of Colorado, Boulder (UCB)
2002 – 2003	Visiting Scientist, Oakridge National Laboratory
1995 – 2004	Professor, Department of Psychology, UCB
1988 – 1995	Associate Professor, Department of Psychology
1988 – present	Fellow, Institute for Behavioral Genetics, University of Colorado, Boulder
1982 – 1988	Assistant Professor, Molecular Biology and Biochemistry, University of California, Irvine
1981 – 1982	Fellow, Institute for Behavioral Genetics, University of Colorado
1977 – 1982	Research Associate, Molecular, Cellular and Developmental Biology, University of Colorado
1975 – 1977	Research Associate, Cornell University

HONORS AND AWARDS:

2016	Recipient of the Outstanding Career Achievement Award, The International Dose-Response Society
2011	<i>Aging Cell</i> : Best paper in 2010: Liao, C.-Y., Rikke, B.A., Johnson, T. E., Diaz, V. and Nelson, J.F., 2010

- Genetic variation in the murine lifespan response to dietary restriction: from life extension to life shortening. *Aging Cell* **9**:92-95. PMID 19878144
- 2010 American *Aging* Association's Denham Harman Research Award
- 2010 CU Genomics Biotechnology Initiative Award (also known as the "**Butcher Grant**").
- 2010 Boulder Faculty Excellence in Research, Scholarly and Creative Work, University of Colorado at Boulder
- 2010 Fellow of the American Association for the Advancement of Science
- 2009 Glenn Award for Research in Biological Mechanisms of Aging, Paul Glenn Foundation
- 2009 Schober Prize winner, Martin Luther University, Department of Cardio-Thoracic Surgery, Halle Germany
- 2008 Editor-In-Chief, *Experimental Gerontology*
- 2007 Appointed to Organizing Committee, Dahlem Conference on Barrier Diseases and Aging
- 2006 Elected President, American Aging Association
- 2005 Hayflick Lecture, University of Alabama, Birmingham, Center for Aging
- 2004 Co-Recipient, with Research Associate Brad Rikke, of Sam Goldstein Award for best paper published in the *J. Gerontology: Biological Sciences*, during 2003/2004
- 2003 Appointed to Cellular Mechanisms In Aging And Development (CMAD) Study Section, Biology of Development and Aging Integrated Review Group
- 2002 Recipient, Robert W. Kleemeier Award, Gerontological Society of America
- 2002 Co-Recipient, with former student James Cypser, of Sam Goldstein Award for best paper published in the *J. Gerontology: Biological Sciences*, during 2001/2002
- 2000 Elected to Board of Directors, American Aging Association
- 1998 Ellison Medical Foundation Senior Scholar
- 1997 Chaired, Gordon Conference on the Biology of Aging
- 1996 Listed in *Who's Who in the World*, 14th Edition
- 1995 Nathan Shock Memorial Lecture, Gerontology Research Center, National Institute on Aging
- 1994 Research Scientist Development Award, National Institute on Alcohol Abuse and Alcoholism
- 1994 Elected Chair, Gordon Conference on the Biology of Aging
- 1993 Recipient of 1993 Busse Research Award for Biomedical Gerontology, Awarded at International Association for Gerontology meeting, Budapest, Hungary

- 1992 Appointed to Biological and Clinical Aging Review
Committee A, National Institute on Aging
- 1990 Glenn Foundation Fellowship
- 1990 Elected Chair, Biological Sciences Section, Gerontological Society of
America
- 1990, 2000 Elected to Board of Directors, American Aging Association
- 1987 – 1992 Research Career Development Award from the USPHS
- 1986 Fellow of the Gerontological Society of America
- 1986 Fellow of the American Federation for Aging Research
- 1986 – 1987 Appointed to National Research Council, Committee on Chemical
Toxicity and Aging
- 1979 – 1982 USPHS Young Investigator Award
- 1977 – 1979 USPHS Postdoctoral Fellowship
- 1970 – 1972 NIH Predoctoral Fellowship
- 1966 – 1970 Gates Foundation Scholarship

MEMBERSHIPS IN SCIENTIFIC SOCIETIES:

American Aging Association
American Association for the Advancement of Science
American Federation for Aging Research
Behavior Genetics Association
Genetics Society of America
Gerontological Society of America
Organ Preservation Alliance

PROFESSIONAL OFFICES:

Executive Committee, American Aging Association, 2008 – 2013

President Elect, President. Past President
American Ageing Association, 2005 – 2008

Board of Directors
American Aging Association, 1991– 1994, 2000 – 2004

Presidential Appointee,
Task Force on Publications,
Gerontological Society of America,

Program Committee
Research Society on Alcoholism, 1997, 1998, 2001

Chair, Publications Committee
Gerontological Society of America, 1998 – 2000

Program Committee for the Biological Sciences
Gerontological Society of America, 1997

Chair, Gordon Conference on the Biology of Aging, 1997

Member of the Permanent Faculty
Summer Training Courses in Experimental Aging Research, 1994 – 1996

Chair-Elect, Chair, and Past Chair
Biological Sciences Section
Gerontological Society of America, 1990 – 1993

National Scientific Advisory Council (NSAC) American Federation for Aging Research
(AFAR), 1991 – current

Membership and Fellowship Committee
Biological Sciences Section
Gerontological Society of America, 1986 – 1989

Publications Committee
Biological Sciences Section
Gerontological Society of America, 1986 – 1989, 2003 – 2005

Chair, Ethics Subcommittee
Gerontological Society of America, 1986-1989

EDITORIAL REVIEW BOARDS:

Honorary Editor, 2018 - Present	<i>Experimental Gerontology</i>
Editor in Chief, August, 2008 – 2017	<i>Experimental Gerontology</i>
Deputy Editor for the Americas, 2005 – 2008	<i>Experimental Gerontology</i>
Associate Editor, 1998 – 2005	<i>Experimental Gerontology</i>
Section Editor, 1998 – 2005	Genetics and Model Systems <i>Neurobiology of Aging</i>
Associate Editor, 1988 – 1999, 2003 – present	<i>Journals of Gerontology, Series A Biological Sciences and Medical Sciences,</i> Gerontological Society of America
Editorial Board, 2002 – present	<i>Genes, Brain and Behavior</i>
Editorial Board, 1998 – present	<i>Rejuvenation Research, (formerly Journal of Anti-Aging Medicine)</i>
Editorial Board, 1999 – 2001	<i>Mechanisms of Aging and Development</i>
Editorial Board, 2001 – 2009	<i>Biogerontology</i>
Board of Managing Editors, 1991 – 1995	<i>Mutation Research DNaging</i>

CURRENT RESEARCH GRANTS:

2012 – current National Inst on Aging, Identification of Mammalian Genes Promoting Life Extension. (Co-PI) Wallace Chick.
\$1,100,000, total direct costs

PATENTS (since 2000):

CU1454B Provisional United States Patent Application, 7/2005, "Method for Predicting Human Longevity"

CU2277B Provisional United States Patent Application, 9/2009, "Generation of long-lived mouse mutants by mutagenesis in mouse embryonic stem cells"

CU3744B Provisional United States Patent Application, 11/7/2014, A method for enhanced organismic resistance to disease, Increased survival and slowed aging

SELECTION OF PAST RESEARCH GRANTS:

1979 – current **Total grant funding >\$16,748,355**
NIH officials noted that my funding positioned me in the Top 0.5 % of total NIH grant funding (excludes clinical trials)

2014 – 2017 Bioscience Discovery Evaluation Grant (BDEG), State of Colorado Office of Economic Development and International Trade, Pharmacological Abrogation of Injury Associated with Cryopreservation \$200,000

2011 – 2013 Glenn/AFAR Breakthroughs in Gerontology, Dissection of the Stochastic Mechanisms Underlying Differential Longevity in Isogenic Populations of *C. elegans*. \$200,000, total direct costs

2010 – 2012 CU Genomics Biotechnology Initiative Awards-also known as the "Butcher Grant"; (Co-PI) Wallace Chick. \$100,000, total direct costs

2006 – 2012 "Ethanol Teratogenesis and Genomic Imprinting", \$1,409,825, total direct costs

1999 – 2010 National Institute on Aging: "Molecular Genetics of Aging in *C. elegans*," \$1,935,076, total direct costs

1995 – 2010 National Institute on Aging: "Oldest-Old Mortality: Demographic Models and Analyses," \$1,941,631, estimated total direct costs

2004 – 2010 National Institute on Aging: "Genes Specifying Aging and Longevity in the Mouse," \$1,251,250, estimated total direct costs.

2006 – 2008 "Generation of Oxidative Resistant Mutant Mice (with Chick Wallace at UCHSC), \$75,000, from the California Pacific Medical Center Research Institute (Steven R. Cummings Program Director)

- 1992 – 2008 National Institute on Alcohol Abuse and Alcoholism: "Mapping of Genes Predisposing to Alcohol Sensitivity," \$3,605,120, total direct costs
- 2000 – 2008 National Institute on Alcohol Abuse and Alcoholism: "High Efficiency Mapping of Alcohol Sensitivity Genes," \$810,319, total direct costs
- 2002 – 2006 Ellison Medical Foundation, \$200,000, total direct costs, (PI: Brad Rikke, Dr. Johnson is co-PI; work is ongoing in his lab.)
- 1999 – 2004 National Institute on Alcohol Abuse and Alcoholism: "Molecular Mapping of Quantitative Loci for Voluntary Ethanol Preference," \$458,671, total direct costs; (PI: Beth Bennett; Dr. Johnson is co-PI; work is ongoing in his lab.)
- 1994 – 2004 National Institute on Alcohol Abuse and Alcoholism: "Identifying Genes Predisposing to Alcoholism," Research Scientist Development Award, \$940,918, estimated total direct costs
- 1999 – 2003 Ellison Medical Foundation Senior Scholar Award: "Identification of Gerontogenes in the Mouse," \$600,000, total direct costs
- 1997 – 2001 National Institute for General Medical Sciences: "QTL Mapping of Genes Specifying Anesthetic Sensitivity", \$822,525, total direct costs
- 1992 – 1998 Veterans Administration: "Molecular Genetics of Alcoholism and Cirrhosis," Component of VA Alcohol Research Center. \$366,000, total direct costs
- 1991 – 1995 National Institute on Aging: "RFLP-Mapping of QTLs for Life Span and Life History," \$381,378, total direct costs
- 1988 – 1995 National Institute on Aging: "Molecular Genetic Specification of Aging Processes," \$768,384, total direct costs
- 1987 – 1992 National Institute on Aging: "Molecular Genetic Analysis of the Specification of Aging," Research Career Development Award, \$256,988, total direct costs
- 1985 – 1988 National Institute on Aging: "Genetic Specification of Physiological Aging," \$237,480, total direct costs
- 1982 – 1984 National Science Foundation: "Genetic Analysis of the Aging Process," \$104,180, total direct costs
- 1978 – 1982 National Institute on Aging: "Genetic Analysis of the Control of Aging," \$83,310, total direct costs

SINGLE-YEAR AWARDS:

- 1991 National Institutes of Health, Small Instrumentation Grant, \$6,975, total direct costs

- 1990 Glenn Foundation Fellowship, \$50,000, total direct costs
- 1990 National Institutes of Health, Small Instrumentation Grant, \$9,045, total direct costs
- 1989 Council on Research and Creative Work Grant-in-Aid, "RFLP-Mapping of Quantitative Trait Loci," \$3000, total direct costs
- 1989 National Institutes of Health, Small Instrumentation Grant, \$6,000, total direct costs
- 1989 National Institutes of Health, Biomedical Research Support Grant, \$11,958, total direct costs
- 1987 – 1988 Allied-Signal Corporation Grant from the American Federation for Aging Research: "Molecular Cloning of a Major Gene Specifying Length of Life," \$25,000, total direct costs
- 1986 – 1987 Charles A Dana Grant from the American Federation for Aging Research: "Molecular Cloning of a Major Gene Specifying Length of Life," \$25,000, total direct costs
- 1983 – 1984 Cancer Research Coordinating Committee: "Control of DNA Methylation in *Caenorhabditis elegans*," \$18,000 direct costs

CONFERENCE GRANTS RECEIVED:

- 2008 National Institute on Aging: "Role of Genes, Environment and Chance in Determining Aging," Annual meeting of the American Aging Association, \$30,000.
- 2007 Glenn Foundation Grant, Ellison Foundation, multiple additional gifts: Annual meeting of the American Aging Association, \$30,000.
- 2006 Ellison Foundation Grant, Annual meeting of the American Aging Association, \$10,000.
- 1996 – 1997 National Institute on Aging, AG14048: "1997 Gordon Conference on the Biology of Aging;" \$50,000
- 1996 Glenn Foundation Grant, to fund 1997 Gordon Conference on the Biology of Aging, \$5000.
- 1991 – 1992 National Institute on Aging: "The Molecular Basis of Aging and Longevity," Annual meeting of the Gerontological Society of America, \$27,090.
- 1991 – 1992 Glenn Foundation Grant, Annual meeting of the Gerontological Society of America, \$2000.

MEETINGS ORGANIZED:

- Organizer of Symposium for the Annual American Aging Association; May 30 – June 2, 2008, Boulder, CO.
- Co-Organizer with Drs. James Curtsinger and David Harrison, Aug 2 – 8, 2000, Third International Conference on Genetic Effects on Aging, Jackson Laboratory, Bar Harbor, ME
- Chair, Gordon Conference on the Biology of Aging, January 1997, Ventura, CA
- Organizing Committee, "The Biology of Aging- A Molecular Viewpoint," May 1994, Geriatric Center, St. Louis, MO
- Co-Organizer with Dr. Caleb Finch, March 1993 Keystone Symposium on the Molecular Biology of Aging, Keystone, CO
- Chair of Organizing Committee for Biological Sciences, November 1991 Gerontological Society of America, San Francisco, CA
- Co-Organizer with Dr. Caleb Finch, UCLA Symposium on the Molecular Biology of Aging, March 1989, Santa Fe, NM
- Organizer, Second West Coast *C. elegans* Conference, March 1988, Lake Arrowhead, CA

MEMBERSHIP IN ADVISORY GROUPS:

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|-------------|--|
| 2008 – 2013 | Member of Scientific Advisory Board to the Methuselah Project |
| 2005 – 2009 | External Advisor, MIMAGE European Consortium, Frankfurt, Germany |
| 2004 – 2010 | External Advisor, Genetics of Healthy Aging Consortium (GEHA), Bologna, Italy |
| 2002 – 2003 | External Advisor, Neuromutagenesis Program, Tennessee Mouse Genetics Consortium |
| 2000 | International Advisor, Australian Society for Cellular and Molecular Gerontology, Centre for Molecular Biology and Medicine |
| 1999 | Author, Report to Congress on QTL Mapping, National Institute on Alcohol Abuse and Alcoholism |
| 1997 | Member, Extramural Scientific Advisory Board, Advisor on Report to Congress, National Institute on Alcohol Abuse and Alcoholism |
| 1997 – 2004 | Scientific Advisor to Portland Alcohol Research Center. |
| 1997 | Member, Extramural Scientific Advisory Board, Advisory on Genetics Portfolio, National Institute on Alcohol Abuse and Alcoholism |
| 1995, 1996 | Member, <i>ad hoc</i> Mapping of Genes for Longevity, Committee on Population, National Academy of Sciences |

- 1994 – 1996 Member of Course Advisory Group,
Summer Training Courses in Experimental Aging
Research, Administered through Univ. of Michigan
- 1994 ACTION Review Committee,
Gerontology Society of America
- 1992 Scientific Advisor to National Institute on Aging,
Committee to Assess the Value of an Outbred Rodent
Model for Selection on Longevity
- 1992 Scientific Advisor to National Institute on Alcohol Abuse
and Alcoholism, Extramural Science Advisory Board:
Applications of Animal Models to Alcohol Research

CONSULTING RELATIONSHIPS:

- 2014 – current 21st Century Medicine, A private company
- 2005 – 2009 External Advisor, “Role of Mitochondria in Conserved
Mechanisms of Ageing” (MIMAGE), Frankfurt, Germany
- 2005 – 2009 External Advisor, Genes Specifying Human Aging (GEHA),
Bologna, Italy
- 2001 – 2009 Consultant, Accera, Inc. Broomfield, CO.
- 2000 – 2010 Consultant, Evolutionary Genomics, Inc., Denver, CO.
- 2006 Consultant, Peptide Pharmaceuticals, Denver Colorado
- 2005 Consultant, SomaLogic, Boulder, CO
- 1999 – 2001 Consultant, Neurogenetics Pharmaceuticals, Inc., San
Diego, CA.
- 1999 – 2003 Executive Committee, San Antonio Nathan Shock Aging
Center
- 1997 – 2000 Founder and Vice President for Functional Genomics at
GenoPlex, a genomics company with a major focus on
aging, learning, and anesthetics
- 1996 – 1999 External Advisor to Program on Aging, UT Health Sciences
Center at San Antonio
- 1995 – 1996 Scientific Advisory Board, MRX Biotechnologies
- 1994 External Advisor to Andrus Gerontology Center, University
of Southern California
- 1994 Scientific Advisor, Genome Technologies
- 1993 Scientific Advisor and Member of Board of Peers,
Biogerotronix, Inc.
- 1992 Outside Advisor to the National Institute on Alcohol Abuse
and Alcoholism
- 1991 Scientific Advisor to National Institute on Aging,
Committee on Mammalian Genetic Models for Longevity
- 1991 Scientific Advisory Council
GRECC, Denver Veterans Administration

1988 – 1990 Scientific Advisory Committee, Nucleic Acids Research
Institute

GRANT REVIEW COMMITTEES:

2018 Paper Reviewer for GSA, JG:BS
2018 Paper Reviewer for EXG
2018 Paper Reviewer for Gerosei
2010 Neurotoxicology and Alcohol Study Section, *ad hoc*
member
2009 Cell Biology and Developmental Fellowship Study Section,
ad hoc member
2009 Genetics of Human Disease Study Section, *ad hoc*
member
2003 – 2007 Cellular Mechanisms in Aging and Development Study
Section, Founding Member and *ad hoc* member
2001 Mammalian Genetics Study Section, *ad hoc*
1995 – 2004 National Institute on Alcohol Abuse and Alcoholism, *ad hoc*
1995 National Institute on Drug Abuse, *ad hoc*
1992 – 1996 Biological and Clinical Aging Review Subcommittee A,
1992 - present Veterans Administration, *ad hoc*
1986, 1991 – present American Federation for Aging Research
1986 – 2002 United States Department of Agriculture
1983 – 2004 National Science Foundation
1983 – 2003 National Institute on Aging, *ad hoc* National Institute on
Aging

RECENT UNIVERSITY SERVICE:

- 2005 – present Salary Committee, Department of Integrative Physiology
- 2003 – 2015 Salary Committee, Institute for Behavioral Genetics
- 2010 – 2016 Awards Committee, Department of Integrative Physiology
- 2008 – present Chair Awards Committee, Institute for Behavioral Genetics
- 2011 Search Committee for Faculty for the Linda Crnic Institute
- 2011 – 2012 Search Committee for Faculty for the Department of Integrative Physiology
- 2011 – 2012 Search Committee for Faculty for the Institute for Behavioral Genetics
- 2012 – 2013 Search Committee for Faculty for the Department of Integrative Physiology
- 2012 – 2013 Search Committee for Faculty for the Institute for Behavioral Genetics
- 2013 – 2014 Search Committee for Faculty for the Department of Integrative Physiology
- 2013 – 2014 Search Committee for Faculty for the Institute for Behavioral Genetics
- 2013 – 2017, Institute Animal Care University Committee
- 2015 – 2017, Awards Committee, Department of Integrative Physiology
- 2015 – Present, Teaching Committee the Institute for Behavioral Genetics
- 2015 – Present, Space Committee the Institute for Behavioral Genetics
- 2015 – Present, Awards Committee the Institute for Behavioral Genetics
- 2018 – Present, Library Committee the Institute for Behavioral Genetics

PUBLICATIONS:

ORCID: orcid.org/0000-0001-7147-8237



Papers in Peer- Reviewed Journals:

1. Johnson, T. E., 1975 Perithecial development and pattern formation in *Neurospora crassa*. Ph.D. Thesis, University of Washington.
2. Howe, H. B. and Johnson, T. E., 1976 Phenotypic diversity among alleles at the *per-1* locus of *Neurospora crassa*. *Genetics* **82**:595-603.
3. Johnson, T. E., 1976 Analysis of pattern formation in *Neurospora* perithecial development using genetic mosaics. *Dev Bio* **54**:23-36.
4. Johnson, T. E., 1977 Mosaic analysis of autonomy of spore development in *Neurospora*. *Exp Mycol* **1**:253-258.
5. Johnson, T. E., 1978 Isolation and characterization of perithecial development mutants in *Neurospora*. *Genetics* **88**:27-47.17248793
6. Johnson, T. E., 1979 A *Neurospora* mutation that arrests development as either male or female sterile parent. *Genetics* **92**:1107-1120.PMID: 7217303
7. Johnson, T. E. and Wood, W. B., 1982 Genetic analysis of life-span in *Caenorhabditis elegans*. *Proc Natl Acad Sci USA* **79**:6603-6607. PMID: 36959141

8. Johnson, T. E., Mitchell, D. H., Kline, S., Kemal, R., and Foy, J., 1984 Arresting development arrests aging in the nematode *Caenorhabditis elegans*. *Mech Ageing Dev* **28**:23-40.
9. Johnson, T. E. and McCaffrey, G., 1985 Programmed aging or error catastrophe? An examination by two-dimensional polyacrylamide gel electrophoresis. *Mech Ageing Dev* **30**:285-297.
10. Johnson, T. E., 1986 Molecular and genetic analyses of a multivariate system specifying behavior and life span. *Behav Genet* **16**:221-235. PMID: 3707485
11. Simpson, V. J., Johnson, T. E., and Hammen, R. F., 1986 *Caenorhabditis elegans* does not contain 5-methylcytosine at any time during development or aging. *Nucleic Acids Res* **14**:6711-6719. PMID: 3748820
12. Johnson, T. E., 1987 Aging can be genetically dissected into component processes using long-lived lines of *Caenorhabditis elegans*. *Proc Natl Acad Sci USA*. **84**:3777-3781. PMID: 3473482
13. Friedman, D. B. and Johnson, T. E., 1988 A mutation in the *age-1* gene in *Caenorhabditis elegans* lengthens life and reduces hermaphrodite fertility. *Genetics* **118**:75-86. PMID: 1203268
14. Friedman, D. B. and Johnson, T. E., 1988 Three mutants that extend both mean and maximum life span of the nematode, *Caenorhabditis elegans*, define the *age-1* gene. *J. Gerontol* **43**:B102-B109, PMID: 3385139.
15. Johnson, T. E., Conley, W. L. and Keller, M. L., 1988 Long-lived lines of *Caenorhabditis elegans* can be used to establish predictive biomarkers of aging. *Exp Gerontol* **23**:281-295. PMID: 3197780.
16. Johnson, T. E. and Hartman, P. S., 1988 Radiation effects on life span in *Caenorhabditis elegans*. *J Gerontol.: A Biol Sci Med Sci* **43**:B137-B141, PMID: 3418030.
17. Hartman, P. S., Simpson, V. J., Johnson, T. E., and Mitchell, D., 1988 Radiation sensitivity and DNA repair in *Caenorhabditis elegans* strains with different mean life spans. *Mutat Res* **208**:77-82.
18. Uitterleinden, A. G., Slagboom, P. E., Johnson, T. E., and Vijg, J., 1989 The *Caenorhabditis elegans* genome contains monomorphic minisatellites and simple sequence. *Nucleic Acids Res* **17**:9527-9530, PMID: 2602134.
19. Nelson, J. F., Karelus, K., Felicio, L. S., and Johnson, T. E., 1990 Genetic influences on the timing of puberty in mice. *Biol Reprod* **42**:649-655, PMID: 2346773.
20. Johnson, T. E., 1990 Increased life span of *age-1* mutants in *Caenorhabditis elegans* and lower Gompertz rate of aging. *Science* **249**:908-912, PMID: 2392681.
21. Brooks, A. and Johnson, T. E., 1991 Genetic specification of life span and self-fertility in recombinant-inbred strains of *Caenorhabditis elegans*. *Heredity* **67**:19-28, PMID: 1917549.

22. Nelson, J. F., Karelus, K., Felicio, L. S., and Johnson, T. E., 1992 Genetic influences on oestrous cyclicity in mice: Evidence that cycle length and frequency are differentially regulated. *J. Reprod Fert* **94**:261-268.
23. Johnson, T. E., DeFries, J. C. and Markel, P. D., 1992 Mapping quantitative trait loci for behavioral traits in the mouse. *Behav Genet* **22**:635-653. Erratum, *Behav Genet* **23**:305.
24. Johnson, T. E and Hutchinson, E. W., 1993 Absence of strong heterosis for life span and other life history traits in *Caenorhabditis elegans*. *Genetics* **134**:463-474.
25. Johnson, T. E., Tedesco, P. M., and Lithgow, G.J., 1993 Comparing mutants, selective breeding, and transgenics in the dissection of aging processes of *Caenorhabditis elegans*. *Genetica* **91**:65-77.
26. Brooks, A., Lithgow, G. J., and Johnson, T. E., 1994 Mortality rates in a genetically heterogeneous population of *Caenorhabditis elegans*. *Science* **263**:668-671.
27. Fabian, T. J. and Johnson, T. E., 1994 Production of age-synchronous mass cultures of *Caenorhabditis elegans*. *J Gerontol.: A Biol Sci Med Sci*, **49**:B145-B156.
28. Markel, P. D. and Johnson, T. E., 1994 Initial characterization of STS markers in the LSXSS series of recombinant inbred strains. *Mam Genome* **5**:199-202.
29. Melov, S., Hertz, G. Z., Stormo, G. D., and Johnson, T. E., 1994 Detection of deletions in the mitochondrial genome of *Caenorhabditis elegans*. *Nucleic Acids Res* **22**:1075-1078.
30. Lithgow, G. J., White, T. M., Hinerfeld, D. A., and Johnson, T. E., 1994 Thermotolerance of a long-lived mutant of *Caenorhabditis elegans*. *J Gerontol.: A Biol Sci Med Sci* **49**:B270-B276.
31. Vaupel, J. W., Johnson, T. E., and Lithgow, G. J., 1994 Rates of mortality in populations of *Caenorhabditis elegans* (Technical Comment). *Science* **266**:826.
32. Johnson, T. E., 1994 Response to Letters. *Science* **266**:828.
33. Duhon, S. A. and Johnson, T. E., 1995 Movement as an index of vitality: Comparing wild type and the *age-1* mutant of *Caenorhabditis elegans*. *J Gerontol: A Biol Sci Med Sci* **50**:B254-B261. PMID 7671016.
34. Markel, P. D., DeFries, J. C., and Johnson, T. E., 1995 Use of repeated-measures in an analysis of ethanol-induced loss of righting reflex in inbred long-sleep and short-sleep mice. *Alcohol Clin Ex Res* **19**:299-304.
35. Fabian, T. J. and Johnson, T. E., 1995 Identification of genes that are differentially expressed during aging in *Caenorhabditis elegans*. *J Gerontol: A Biol Sci Med Sci* **50**:B245-B253.
36. Markel, P. D., DeFries, J. C., and Johnson, T. E., 1995 Ethanol-induced anesthesia in inbred strains of long-sleep and short-sleep mice: A genetic analysis of repeated measures using censored data. *Behav Genet* **25**:67-73.

37. Melov, S., Lithgow, G. J., Fischer, D. R., Tedesco, P. M., and Johnson, T. E., 1995 Increased frequency of deletions in the mitochondrial genome with age of *Caenorhabditis elegans*. *Nucleic Acids Res* **23**:1419-1425.
38. Lithgow, G. J., White, T. M., Melov, S., and Johnson, T. E., 1995 Thermotolerance and extended life-span conferred by single-gene mutations and induced by thermal stress. *Proc Natl Acad Sci USA* **92**:7540-7544. PMID: 41375
39. Fabian, T. J. and Johnson, T. E., 1995 Total RNA, rRNA and poly(A)⁺ RNA abundances during aging in *Caenorhabditis elegans*. *Mech Ageing Dev* **83**:155-170.
40. Shook, D., Brooks, A., and Johnson, T. E., 1996 Mapping quantitative trait loci specifying hermaphrodite survival or self fertility in the nematode *Caenorhabditis elegans*. *Genetics* **142**:801-817.
41. Duhon, S. A., Murakami, S., and Johnson, T. E., 1996 Direct isolation of longevity mutants in the nematode *Caenorhabditis elegans*. *Develop Genet* **18**:144-153.
42. Christensen, S. C., Johnson, T. E., Markel, P. D., Clark, V. J., Fulker, D. W., Corley, R. P., Collins, A. C., and Wehner, J. M., 1996 Quantitative trait locus analyses of sleep-times induced by sedative-hypnotics in LSXSS recombinant inbred strains of mice. *Alcohol Clin Exp Res* **20**:543-550.
43. Markel, P. D., Fulker, D. W., Bennett, B., Corley, R. P., DeFries, J. C., Erwin, V. G., and Johnson, T. E., 1996 Quantitative trait loci for ethanol sensitivity in the LSXSS recombinant inbred strains: Interval-mapping. *Behav Genet* **26**:447-458.
44. Markel, P. D., Bennett, B., Beeson, M. A., Gordon, L., Simpson, V. J., and Johnson, T. E., 1996 Strain distribution patterns for genetic markers in the LSXSS recombinant-inbred series. *Mamm Genome* **7**:408-412.
45. Murakami, S. and Johnson, T. E., 1996 A genetic pathway conferring life extension and resistance to UV stress in *Caenorhabditis elegans*. *Genetics* **143**:1207-1218.
46. Johnson, T. E., Lithgow, G. J., and Murakami, S., 1996 Hypothesis: Interventions that increase the response to stress offer the potential for effective life prolongation and increased health. *J. Gerontol: A Biol Sci Med Sci* **51**:B392-B395. PMID 8914487.
47. Erwin, V. G., Markel, P. D., Johnson, T. E., Gehle, V. M., and Jones, B. C., 1997 Common quantitative trait loci for alcohol-related behaviors and CNS neurotensin measures: hypnotic and hypothermic effects. *J Pharmacol Exp Ther* **280**:911-918.
48. Markel, P. D., Bennett, B., Beeson, M., Gordon, L., and Johnson, T. E., 1997 Confirmation of quantitative trait loci for ethanol sensitivity in long-sleep and short-sleep mice. *Gen Res* **7**:92-99.
49. Bennett, B., Beeson, M., Gordon, L., and Johnson, T. E., 1997 Quick method for confirmation of quantitative trait loci. *Alcohol Clin Exp Res* **21**:767-772.

50. van Swinderen, B., Shook, D. R., Ebert, R. H., Cherkasova, V. A., Johnson, T. E., Reis, R. J. S., and Crowder, C. M., 1997 Quantitative trait loci controlling halothane sensitivity in *Caenorhabditis elegans*. *Proc Natl Acad Sci USA* **94**:8232-8237.
51. Simpson, V. J., Rikke, B. A., Costello, J. N., Corley, R., and Johnson, T. E., 1998 Identification of a genetic region in mice that specifies sensitivity to propofol. *Anesthesiology* **88**:379-389. See also accompanying Editorial commentary, pp. 293-296.
52. Rikke, B. A., Johnson, D. K., and Johnson, T. E., 1997 Murine albino-deletion complex: high-resolution microsatellite map and genetically anchored YAC framework map. *Genetics* **147**:787-799.
53. Vaupel, J. W., Carey, J. R., Christensen, K., Johnson, T. E., Yashin, A. I., Holm, N. V., Iachine, I. A. Khazaeli, A., Liedo, P., Longo, V. D., Yi, Z. Manton, K. G., and Curtsinger, J. W. 1998 Biodemographic Trajectories of Longevity. *Science* **280**:855-859.
54. Murakami, S. and Johnson, T. E. 1998 Life extension and stress resistance stress in *Caenorhabditis elegans* modulated by the *tkr-1* gene. *Curr Biol* **8**:1091-1094. Erratum, *Curr Biol* **9**:R791.
55. Bennett, B. and Johnson, T. E. 1998 Development of congenics for hypnotic sensitivity to ethanol using QTL-marker-assisted counter-selection. *Mamm Genome* **9**:969-974.
56. Rikke, B. and Johnson, T.E. 1998 Towards the cloning of genes underlying murine QTLs. *Mamm Genome* **9**:963-968.
57. Shimizu, M. Higuchi, K., Bennett, B., Chen, X., Tsuboyama, T., Kasai, S., Chiba, T., Fujisawa, H., Kogishi, K., Kitado, H., Kimoto, M., Takeda, N., Matsushita, M., Okumura, H., Serikawa, T., Nakamura, T., Johnson, T. E., and Hosokawa, M., 1999 Identification of quantitative trait loci that control low peak bone mass using a spontaneously osteoporotic mouse strain, SAMP6. *Mamm Genome* **10**:81-87. PMID: 9922384
58. Whatley, V.J., Erwin, V.G., and Johnson, T.E., 1999 Identification and confirmation of quantitative trait loci regulating alcohol consumption in congenic strains of mice. *Alcohol Clin Exp Res* **23**:1262-1271. PMID: 10443995
59. Shook, D. R. and Johnson, T. E., 1999 Quantitative trait loci affecting survival and fertility-related traits in *Caenorhabditis elegans* show genotype-environment interactions, pleiotropy and epistasis. *Genetics* **153**:1233-1243. PMID: 10545455
60. Link, C. D., Cypser, J. R., Johnson, C. J., and Johnson, T. E., 1999 Direct observation of stress response in *Caenorhabditis elegans* using a reporter transgene. *Cell Stress Chap* **4**:235-242. PMID: 10590837
61. Cypser, J. R. and Johnson, T. E., 1999 The *spe-10* mutant has longer life and increased stress resistance. *Neurobiol Aging* **20**:503-512. PMID: 10638523

62. Rikke, B., Murakami, S., and Johnson, T. E., 2000 Paralogy and orthology of tyrosine kinases that can extend the life span of *Caenorhabditis elegans*. *Molec Biol Evo* **17**:671-683. PMID: 10779528
63. Rikke, B. A., Simpson, V. J., Montoliu, L., and Johnson, T. E. 2001 No effect of albinism on sedative-hypnotic sensitivity to ethanol and anesthetics. *Alcohol Clin Exp Res* **25**:171-176. PMID: 11236829
64. Murakami, S. and Johnson, T. E., 2001 *old-1* receptor tyrosine kinase: a positive regulator of longevity and stress resistance in *Caenorhabditis elegans*. *Curr Biol* **11**:1517-1523. PMID: 11591319
65. Johnson, T. E., Wu, D., Tedesco, P., Dames, S., and Vaupel, J. W., 2001 Age-specific demographic profiles of longevity mutants in *Caenorhabditis elegans* show segmental effects. *J Gerontol: A Biol Sci Med Sci* **56**:B331-339. PMID: 11487591
66. Michalski, A. I., Johnson, T. E., Cypser, J. R., and Yashin, A. I., 2001 Heating stress patterns in *Caenorhabditis elegans* longevity and survivorship. *Biogerontol* **2**:35-44. PMID: 1170861
67. Walker, G.A., White, T.M., McColl, G., Jenkins, N. L., Babisch, S., Candido, E.P.M. Johnson, T.E., and Lithgow, G.J., 2001 Heat shock protein accumulation is upregulated in a long-lived mutant of *Caenorhabditis elegans*. *J Gerontol: A Biol Sci Med Sci* **56**:B281-B287. PMID: 1144559
68. Yashin, A. I., Cypser, J. W., Johnson, T. E., Michalski, A. I., Boyko, S. I., and Novoseltsev, V. N., 2001 Ageing and survival after different doses of heat shock: the results of analysis of data from stress experiments with the nematode worm *Caenorhabditis elegans*. *Mech Ageing Dev* **122**:1477-1495. PMID: 11470134
69. Ehringer, M, Thompson, J., Conroy, O., Xu, Y., Yang, F., Canniff, J., Beeson, M., Gordon, L., Bennett, B., Johnson, T. E., and Sikela, J. M., 2001 High-throughput sequence identification of gene coding variants within alcohol-related QTLs. *Mamm Genome* **12**:657-663. PMID: 11471062
70. Owens, J. C., Bennett, B., and Johnson, T. E., 2001 Evidence that the *Lore-1* region specifies ethanol-induced locomotor activation in addition to sedative/hypnotic sensitivity to ethanol. *Alcohol Clin Exp Res* **25**:1551-1557. PMID: 11707628
71. Butov, A. A., Johnson, T. E., Cypser, J. R., Sannikov, I. A., Volkov, M. A., Sehl, Ma E., and Yashin, A. I., 2001 Hormesis and debilitation effects in stress experiments using the nematode worm *C. elegans*: The model of balance between cell damage and HSP levels. *Exp Gerontol* **37**:57-66.
72. Yashin, A. I., Cypser, J. W., Johnson, T. E., Michalski, A. I., Boyko, S. I., and Novoseltsev, V. N., 2002 Heat shock changes the heterogeneity distribution in populations of *Caenorhabditis elegans*: does it tell us anything about biological mechanism of stress response? *J Gerontol: A Biol Sci Med Sci* **57**:B83-92. PMID: 11867644

73. Henderson S. T. and Johnson T. E., 2001 *daf-16* integrates developmental and environmental inputs to mediate aging in the nematode *Caenorhabditis elegans*. *Curr Biol* **11**:1975-1980. Erratum 2005 *Curr Biol* **15**:690. PMID: 11747825
74. Cypser. J. R. and Johnson, T. E., 2002 Multiple stressors in *Caenorhabditis elegans* induce stress hormesis and extended longevity. *J Gerontol: A Biol Sci Med Sci* **57**:B109-B114. PMID: 11867647
75. Owens, J. C., Stallings, M., and Johnson, T. E., 2002 Genetic analysis of low dose ethanol-induced activation (LDA) in Inbred Long Sleep (ILS) and Inbred Short Sleep (ISS) Mice. *Behav Genet* **32**:163-172. PMID: 12141778
76. Bennett, B., Beeson, M., Gordon, L., and Johnson, T. E., 2002 Reciprocal congenics defining individual quantitative trait loci for sedative/hypnotic sensitivity to ethanol. *Alcohol Clin Exp Res* **26**:149-157. PMID: 1196455
77. GuhaThakurta, D., Palomar, L., Stormo, G. D., Tedesco, P., Johnson, T. E., Walker, D., Lithgow, G., Kim, S., and Link, C. D., 2002 Identification of a novel *cis*-regulatory element involved in the heat shock response in *C. elegans* using microarray gene expression and computational methods. *Gen Res* **12**:701-712. PMID: 11997337
78. Eisenman, L M., Donovan, H. S., and Johnson, T. E., 2002 Alcohol differentially affects *c-Fos* expression in the supraoptic nucleus of long-sleep and short-sleep mice. *Brain Res* **935**:114-117. PMID: 12062480
79. Owens, J. C., Bennett, B., and Johnson T. E., 2002 Possible pleiotropic effects of genes specifying sedative/hypnotic sensitivity to ethanol on other alcohol-related traits in congenic strains. *Alcohol Clin Exp Res* **26**:1461-1467. PMID: 12394278
80. Ehringer, M. A., Thompson, J., Conroy, O., Yang, F., Hink, R., Bennett, B., Johnson, T. E., and Sikela, J. M., 2002 Fine-mapping of polymorphic alcohol-related QTL candidate genes using interval-specific recombinant congenic mice. *Alcohol Clin Exp Res* **26**:1603-1608. PMID: 12436047
81. Bennett, B., Beeson, M., Gordon, L., Carosone-Link, P., and Johnson, T. E., 2002 Genetic dissection of quantitative trait loci specifying sedative/hypnotic sensitivity to ethanol: mapping in interval-specific congenic recombinant lines. *Alcohol Clin Exp Res* **26**:1615-1624. PMID: 12473450
82. Lund, J., Tedesco, P., Duke, K., Wang, J., Kim, S. K., and Johnson, T. E., 2002 Transcriptional profile of aging in *Caenorhabditis elegans*. *Curr Biol* **12**:1566-1573. PMID: 12372248
83. Kampkotter, A., Volkmann, T. E., de Castro, S. H., Leiers, B., Klotz, L. O., Johnson, T. E., Link, C. D., and Henkle-Duhrsen, K., 2003 Functional analysis of the glutathione S-transferase from *Onchocerca volvulus* (Ov-GST-3): A parasite GST confers increased resistance to oxidative stress in *Caenorhabditis elegans*. *J Mol Biol* **325**:25-37. PMID: 12473450

84. Leiers, B., Kampkotter, A., Grevelding, G.G., Link, C. D., Johnson, T. E., and Henkle-Duhrsen, K., 2003 A stress-responsive glutathione S-transferase confers resistance to oxidative stress in *Caenorhabditis elegans*. *Free Radic Biol Med* **34**:1405-1415. PMID: 12757851
85. Cypser, J. R. and Johnson, T. E., 2003 Hormesis in *Caenorhabditis elegans* dauer-defective mutants. *Biogerontology* **4**:203-214. No PMID
86. Rikke, B.A., Yerg, J. E., Battaglia, M.E., Nagy, T. R., Allison, D. B., and Johnson, T. E., 2003 Strain variation in the response of body temperature to dietary restriction. *Mech Ageing Dev* **124**:663-678. PMID: 12735906
87. Downing, C., Shen, E. H., Simpson, V. J., and Johnson, T. E., 2003 Mapping quantitative trait loci mediating sensitivity to etomidate. *Mamm Genome*, **14**:367-375. PMID: 12879358
88. Houthoofd, K., Braeckman, B. P., Johnson T. E., and Vanfleteren, J. R., 2003 Dietary restriction does not use the Ins/IGF-1 signaling life-extending pathway in *C. elegans*. *Exp Gerontol* **38**:947-954. PMID: 12954481
89. Rea, S., and Johnson, T. E., 2003 A metabolic model for determination of longevity in the nematode *Caenorhabditis elegans*. *Dev Cell*, **2**:197-203. PMID: 12919672
90. Rikke, B. A., Yerg, J. E., Battaglia, M. E., Nagy, T.R., Allison, D. B., and Johnson, T. E., 2004 Quantitative trait loci specifying the response of body temperature to dietary restriction. *J Gerontol: A Biol Sci Med Sci* **59**:118-125. PMID: 1499902
91. de Castro, E., de Castro, S. H., and Johnson T. E., 2004 Isolation of long-lived mutants in *Caenorhabditis elegans* using selection for resistance to juglone. *Free Radic Biol Med* **37**:139-145. PMID: 15203185
92. Proctor, W. R., Wu, P. H., Bennett, B., and Johnson, T. E., 2004 Differential Effects of ethanol on GABA_A receptor-mediated IPSCs in LORE congenic strains of mice. *Alcohol Clin Exp Res* **28**:1277-1283. PMID: 1536529
93. Williams. R. W., Bennett, B., Lu, L., Gu, J., DeFries, J. C., Carosone-Link, P., Rikke, B., Belknap, J. K., and Johnson T. E., 2004 Genetic structure of the LXS panel of recombinant inbred mouse strains. *Mamm Genome* **15**:637-647. PMID: 1545734
94. Ventura, N., Rea, S., Henderson, S. T., Condo, I., Johnson, T. E., and Testi, R., 2005 Reduced expression of frataxin extends the life span of *Caenorhabditis elegans*. *Aging Cell*, **4**:109-12. PMID: 15771615
95. Rea, S., Wu, D., Cypser, J.R., Vaupel, J.W., and Johnson, T. E., 2005 A stress-sensitive reporter predicts longevity in isogenic populations of *Caenorhabditis elegans*? *Nat Genet* **37**:894-898. PMC1479894
96. Bennett, B. Carosone-Link, P., Lu, L., Chesler, E. J., and Johnson, T. E., 2005 Genetics of body weight in the LXS recombinant inbred mouse strains. *Mamm Genome* **16**:764-774. PMID: 16261418

97. Haughey, H. M., Kaiser, A. L., Hall, J. T., Johnson, T.E., Bennett, B., James M. Sikela, J. M., and Zahniser, N. R., 2005 The norepinephrine transporter: A candidate gene for initial ethanol sensitivity in inbred short- and long-sleep mice. *Alcohol Clin Exp Res* **29**:1759-1768. PMID: 1626990
98. Lowes, D. A., Galley, H. F., Lowe, P. R., Rikke, B. A., Johnson, T. E., and Webster, N. R., 2005 A microarray analysis of potential genes underlying the neurosensitivity of mice to propofol. *Anesth Analg* **101**:697-704. PMID: 16115977
99. Henderson, S., Bonafe, M., and Johnson, T. E., 2006 *daf-16* protects the nematode *Caenorhabditis elegans* during food deprivation. *J Gerontol: A Biol Sci Med Sci* **61**:444-460. PMID: 16720740
100. Wu, D., Rea, S., Yashin, A., and Johnson, T.E., 2006 Visualizing hidden heterogeneity in isogenic populations of *C. elegans*. *Exp Gerontol* **41**:261-270. PMID: 16480844
101. MacLaren, E. J., Bennett, B., Johnson, T. E., and Sikela, J. M., 2006 Expression profiling identifies novel candidate genes for ethanol sensitivity QTLs. *Mamm Genome* **17**:147-156. PMID: 16465594
102. Rikke, B.A., Battaglia, M. E., Allison, D. B., and Johnson, T. E., 2006 Murine weight loss exhibits significant genetic variation during dietary restriction. *Physio Genomics* **27**:122-130. PMID: 16849633
103. Downing, C., Carosone-Link, P., Bennett, B., and Johnson, T. E., 2006 QTL mapping for low-dose ethanol activation in the LXS recombinant inbred strains. *Alcohol Clin Exp Res* **30**:1111-1120. PMID: 16792557
104. Bennett, B., Carosone-Link, P., Zahniser, N. R., and Johnson, T. E., 2006 Confirmation and fine mapping of ethanol sensitivity quantitative trait loci, and candidate gene testing in the LXS recombinant inbred mice. *J Pharmacol Exp Ther* **319**:299-307. PMID: 16803863
105. Bennett, B., Downing, C., Carosone-Link, P., Poniscan, H., Ruf, C., and Johnson, T. E., 2007 Quantitative trait loci mapping for acute functional tolerance to ethanol in the LXS recombinant inbred panel. *Alcohol Clin Exp Res* **31**:200-208. PMID: 17250610
106. Arum, O. and Johnson, T. E., 2007 Reduced expression of the *Caenorhabditis elegans* p53 ortholog *cep-1* results in increased longevity. *J Gerontol: A Biol Sci Med Sci* **62**:951-959. PMCID: 17895432
107. Rea, S. L., Ventura, N. and Johnson, T. E., 2007 Relationship between mitochondrial electron transport chain dysfunction, development and life extension in *Caenorhabditis elegans*. *PLOS Biology* **5(10)**:e259. PMC1994989
108. Rikke, B. A., and Johnson, T. E., 2007 Physiological genetics of dietary restriction: uncoupling the body temperature and body weight responses. *Am J Physiol Regul Integr Comp Physiol* **293**:R1522-R1527. PMID: 17686887

109. Kell, A., Ventura, N., Kahn, N., and Johnson, T. E., 2007 Activation of SKN-1 by novel kinases in *Caenorhabditis elegans*. *Free Radic Biol Med* **43**:1560-1566. PMID: 17964427
110. Kahn, N. W., Rea, S. L., Moyle, S., Kell, A., and Johnson, T. E., 2008 Proteosomal dysfunction activates SKN-1 and produces a selective oxidative response in *C. elegans*. *Biochem J* **409**:205-213. PMID 17714076
111. Tedesco, P., Jiang, J., Wang, J., Jazwinski, S. M., and Johnson, T. E., 2008 Genetic analysis of *hyl-1*, the *C. elegans* homolog of LAG1/LASS1. *AGE* **30**:43-52. PMID 19424872; PMC2274941;
112. Wu, D., Cypser, J. R., Yashin, A. I., and Johnson, T. E., 2008 The U-shaped response of initial mortality in *C. elegans* to mild heat shock: Does it explain recent trends in human mortality. *J Gerontol A Biol Sci Med Sci* **63**:660-668. PMID: 18693219; PMC not available
113. Bennett, B., Carosone-Link, P., Beeson, M., Gordon, L., Phares-Zook, N., and Johnson, T. E., 2008 Genetic dissection of quantitative trait locus for ethanol sensitivity in long- and short-sleep mice. *Genes Brain Behav* **7**:659-668. PMID: 18363857.
114. Budovskaya, Y. V., Wu, K., Southworth, L. K., Jiang, M., Tedesco, P., Johnson, T. E., and Kim, S. K., 2008 An *elt-3/elt-5/elt-6* GATA transcription circuit guides aging in *C. elegans*. *Cell* **134**:291-303. PMID: 18662544.
115. Yanase, S., Onodera, A., Tedesco, P., Johnson, T. E., and Ishii, N., 2008 SOD-1 deletions in *Caenorhabditis elegans* alter the localization of intracellular ROS and show molecular compensation. *J Gerontol A Biol Sci Med Sci* **64**:530-539. PMID: 19282511.
116. Parker, C. C., Ponicsan H., Spencer, R. L., Holmes, A., and Johnson, T. E., 2008 Restraint stress and exogenous corticosterone differentially alter sensitivity to the sedative-hypnotic effects of ethanol in ILS inbred long-sleep and inbred short-sleep ISS mice. *Alcohol* **42**:477-485. PMID: 18760716
117. Downing, C., Balderrama-Durbin, C., Hayes, J., Johnson, T. E., and Gilliam, D., 2009 No effect of prenatal alcohol exposure in three inbred strains of mice. *Alcohol and Alcoholism* **44**:25 - 33. PMID: 18854366.
118. Asencio, C., Navas, P., Cabello, J., Schnabel, R., Cypser, J. R., Johnson, T. E., and Rodriguez-Aguillera, J.C., 2009 Coenzyme Q supports distinct developmental processes in *Caenorhabditis elegans*. *Mech Ageing Dev* **130**:145-153. PMID: 19007804.
119. Park, Sang-kyu, Tedesco, P. M., and Johnson, T. E., 2009 Oxidative stress and longevity in *C. elegans* as mediated by SKN-1. *Aging Cell* **8**:258-269. PMID 19627265
120. Downing, C., Balderrama-Durbin, C., Broncucia, H., Gilliam, D., and Johnson, T. E., 2009 Ethanol teratogenesis in five inbred strains of mice. *Alcohol Clin Exp Res* **33**:1238 -1245. PMID: 19389189

121. Wu, D., Cypser, J. R., Yashin, A., and Johnson, T. E., 2009 Multiple mild heat-shocks decrease the Gompertz component of mortality in *Caenorhabditis elegans*. *Exp Gerontol* **44**:607-612. PMID: 19580861.
122. Ventura, N., Rea, S. L., Schiavi, A., Torgovnick, A., Testi, R., and Johnson, T. E., 2009 p53/CEP-1 increases or decreases lifespan, depending on level of mitochondrial bioenergetic stress. *Aging Cell* **8**:380 - 393. PMID: 19416129.
123. Wu, D., Rea, S. L., Cypser, J. R., and Johnson, T. E., 2009 Mortality shifts in *Caenorhabditis elegans*: Remembrance of conditions past. *Aging Cell* **8**:666 – 675, PMC 2784026; PMID 19747231.
124. Park, S.-K., Link, C. D., and Johnson, T. E., 2010 Lifespan extension by dietary restriction is mediated by nlp-7 signaling and coelomocyte endocytosis in *C. elegans*. *FASEB J* **24**:383-892. PMID 19783783.
125. Chick, W. S., Drechsel, D. A., Hammond, W., Patel, M. and Johnson, T. E., 2009 Transmission of mutant phenotypes from ES cells to adult mice. *Mam Genome* **20**: 734-740. PMID 19795169
126. Liao, C.-Y., Rikke, B.A., Johnson, T. E., Diaz, V. and Nelson, J.F., 2010 Genetic variation in the murine lifespan response to dietary restriction: from life extension to life shortening. *Aging Cell* **9**:92-95. PMID 19878144. This paper won the Award for best paper in *Aging Cell* in 2010.
127. Liao, C.-Y., Rikke, B. A., Johnson, T. E., Diaz, V. and Nelson, J. F., 2010 No evidence that competition for food underlies lifespan shortening by dietary restriction in multiply housed mice: response to commentary. *Aging Cell* **9**: 450-452. PMCID: not available.
128. Downing, C., Biers, J., Larson, C., Kimball, A., Wright, H., Ishii, T., Gilliam, D., Johnson, T. E., 2010 Genetic and maternal effects on valproic acid teratogenesis in C57BL/6J and DBA/2J Mice. *Toxic Sci* **116**: 632-639. PMC:2905403
129. Rikke, B. A., Liao, C.-Y., McQueen, M. B., Nelson, J. F., Johnson, T. E., 2010 Genetic dissection of dietary restriction in mice supports the metabolic efficiency model of life extension. *Exp Gerontol* **45**:691-701. PMID 20452416.
130. Downing, C., Marks, M. J., Larson, C., Johnson, T. E., 2010 The metabotropic glutamate receptor subtype 5 mediates sensitivity to the sedative properties of ethanol. *Pharmacogenetic Genomics* **20**:553-564. PMID: 20657349
131. Seewald, A. K., Cypser, J., Mendenhall, A., Johnson, T., 2010 Quantifying phenotypic variation in isogenic *Caenorhabditis elegans* expressing Phsp-16.2: GFP by clustering 2D expression patterns. *PLoS One*, e11426. doi:10.1371/journal.pone.0011426 PMC2906502
132. Butler, J. A., Ventura, N., Johnson, T. E., Rea, S. L. 2010 Long-lived mitochondrial (MIT) mutants of *Caenorhabditis elegans* utilize a novel metabolism. *FASEB J* **12**:4977-4988. PMC2992375

133. Downing, C., Johnson, T. E., Larson, C., Leakey, T. I., Siegfried, R. N., Rafferty, T. M., Cooney, C. A., 2011 Subtle decreases in DNA methylation and gene expression at the mouse *igf2* locus following prenatal alcohol exposure: effects of a methyl-supplemented diet. *Alcohol* **45**:65-71. PMID: 20705422
134. Liao, C.-Y., Rikke, B. A., Johnson, T. E., Gelfond, J. A. L., Diaz, V. and Nelson, J. F., 2011 Fat maintenance is a predictor of the murine lifespan response to dietary restriction. *Aging Cell* **10**:629-639. PMID: 21388497
135. Mendenhall, A. R., Wu, D., Park, S.-K., Cypser, J. R., Tedesco, P. M., Link, C. D., Johnson, T. E., 2011 Genetic dissection of late-life fertility in *C. elegans*. *J Gerontol: A Biol Sci Med Sci* **66**:842-854. PMID: 21622982
136. Downing, C., Balderrama-Durbin, C., Kimball, A., Biers, J., Wright, H., Gilliam, D., Johnson, T. E., 2012 Quantitative trait locus mapping for ethanol teratogenesis in BXD recombinant inbred mice. *Alcohol Clin Exp Res*, **36**: 1340-1354. PMID: 22413943
137. Mendenhall, A. R., Tedesco, P. M., Taylor, L. D., Lowe, A., Cypser, J. R., Johnson, T.E. 2012 Expression of a single-copy *hsp-16.2* reporter predicts lifespan. *J Gerontol: A Biol Sci Med Sci*, **67**:726-733. PMID: 22227523
138. Downing, C., Flink, S., Florez-McClure, M. L., Johnson, T. E., Tabakoff B, Kechris, K. J., 2012 Gene expression changes in C57BL/6J and DBA/2J mice following prenatal alcohol exposure. *Alcohol Clin Exp Res*, **36**:1519-1529. PMID: 22530671
139. Kim, S. K., Budovskaya, Y. V., Johnson, T. E., 2012 Reconciliation of *daf-2* suppression by *elt-3* in *Caenorhabditis elegans* from Tonsaker et al. (2012) and Kim et al (2012) *Mech Ageing Dev*, **134**:64,65. PMID: 23262285; Kim, S. K., Budovskaya, Y. V., Johnson, T. E., 2013 Response to Tonsacker et al. *Mech Ageing Dev*, **133**:54-56. PMID: 22155122
140. Wu, D., Cypser, J. R., Tedesco, P. M., Phillips, P. C. Johnson, T. E., 2012 Fertility/longevity trade offs under limiting-male conditions in mating populations of *Caenorhabditis elegans*, *Exp Gerontol*, **47**:759–763. PMID: 22771817. Beekman, M., Blanché, H., Perola, M., Hervonen, A., Bezrukov, V., Sikora, E., Flachsbarth, F., Christiansen, L., De Craen, A. J. M., Kirkwood, T. B. L., Rea, I. M., Poulain, M., Robine, J.-M., Stazi, M. A., Passarino, G., Deiana, L., Gonos, E. S. Valensin, S., Paternoster, L., Sørensen, T. I. A., Tan, Q., Helmer, Q., Van den Akker, E. B., Deelen, J., Martella, F., Cordell, H. J., Ayers, K. L., Vaupel, J. W., Törnwall, O., Schreiber, S., Lathrop, M., Skytthe, A., Westendorp, R., G. J., Christensen, K., Gampe, J., Nebel, A., Houwing-Duistermaat, J., J., Johnson, T. E., Slagboom, P., E., Franceschi, C., 2013 Genome-wide linkage analysis for human longevity: Genetics of Healthy Ageing Study. *Aging Cell*, **12**: 184-193. PMID:23286790
- 142.
141. Cypser, J.R., Wu, D., Park, S-K, Ishii, T., Tedesco, T.M., Mendenhall, A., Johnson, T.E., 2013 Predicting longevity in *C. elegans*: fertility, mobility and gene expression. *Mech Ageing Dev*, **13**: 23-27. PMID: 23416266

142. Chick, Wallace, S., Ludwig, Michael, Zhao, Xiaoyun, Kitzenberg, David, Williams, Kristina and Johnson, Thomas E. 2014 Screening for stress-resistance mutations in the mouse. *Frontiers in Genetics*, Sep 8;5:310. doi: 10.3389/fgene.2014.00310. eCollection 2014 PMID: 25250048
143. Raule, N., Sevini, F, Li S, Barbieri A, Tallaro F, Lomartire L, Vianello D, Montesanto A, Moilanen JS, Bezrukov V, Blanché H, Hervonen A, Christensen K, Deiana L, Gonos ES, Kirkwood TB, Kristensen P, Leon A, Pelicci PG, Poulain M, Rea IM, Remacle J, Robine JM, Schreiber S, Sikora E, Eline Slagboom P, Spazzafumo L, Antonietta Stazi M, Toussaint O, Vaupel JW, Rose G, Majamaa K, Perola M, **Johnson TE**, Bolund L, Yang H, Passarino G, Franceschi C., 2014 The co-occurrence of mtDNA mutations on different oxidative phosphorylation subunits, not detected by haplogroup analysis, affects human longevity and is population specific. *Aging Cell*, **13**:401-407, PMID: 24341918
144. Newell B.L., Kechris, K., McQueen, M.B., Johnson T.E., 2015 Genetic analysis of a murine QTL for body weight under diet restriction on chromosome 15 using congenic strains. *AGE*, **37** doi 10.1007/s11357-014-9740-2 PMID: 25651884
145. Mendenhall, A.R., Tedesco, P.M., Sands, B., Johnson, T., E., and Brent, R., 2015 Single cell quantification of reporter gene expression in live adult *Caenorhabditis elegans* reveals reproducible cell-specific expression patterns and underlying biological variation PLoS ONE 10(5): e0124289. PMID: 25946008
146. Ishii T, Kayo Yasuda, Ph.D, Junji Mitsushita, M.D. and Ph.D, Thomas Johnson, Ph.D, Phil S. Hartman, PhD., Naoaki Ishii, Ph.D. Infertility and recurrent miscarriage with complex II deficiency-dependent mitochondrial oxidative stress in animal models. *Mechanisms of Aging and Development*. 2017. PMID: 26944226
147. Newell Stamper BL, Cypser JR, Kechris K, Kitzenberg DA, Tedesco PM, Johnson TE. Movement decline across lifespan of *Caenorhabditis elegans* mutants in the insulin/insulin-like signaling pathway. *Aging Cell*. 2017. [Epub ahead of print] PMID: 29214707
148. Simecek P, Forejt J, Williams RW, Shiroishi T, Takada T, Lu L, Johnson TE, Bennett B, Deschepper CF, Scott-Boyer MP, Pardo-Manuel de Villena F, Churchill GA. High-Resolution Maps of Mouse Reference Populations. *G3 (Bethesda)*. 2017. PMID: PMC5633391
149. Mendenhall A, Crane MM, Leiser S, Sutphin G, Tedesco PM, Kaeberlein M, Johnson TE, Brent R. Environmental Canalization of Life Span and Gene Expression in *Caenorhabditis elegans* *J Gerontol A Biol Sci Med Sci*. 2017. PMID: 28369388
150. Mendenhall A, Crane MM, Tedesco PM, Johnson TE, Brent R. *Caenorhabditis elegans* Genes Affecting Interindividual Variation in Life-span Biomarker Gene Expression *J Gerontol A Biol Sci Med Sci*. 2017. PMID: 28158434
151. Tedesco PM, Schumacher GJ, Johnson TE. "Cryoprotectant toxicity in *Caenorhabditis elegans*.." *Cryobiology* (December 04, 2018).

152. Cypser JR, Chick WS, Fahy GM, Schumacher GJ, Johnson TE. "Genetic suppression of cryoprotectant toxicity.." *Cryobiology* (November 17, 2018).
153. Newell Stamper BL, Cypser J1, Kechris K, Kitzenberg DA, Tedesco PM, Johnson TE. Movement decline across lifespan of *Caenorhabditis elegans* mutants in the insulin/insulin-like signaling pathway. *Aging Cell*. 2018.
154. Leak RK, Calabrese EJ, Kozumbo WJ, Gidday JM, Johnson TE, Mitchell JR, Ozaki CK, Wetzker R, Bast A, Belz RG, Botker HE, Koch S, Mattson MP, Simon RP, Jirtle RL, Anderson ME. Enhancing and Extending Biological Performance and Resilience. *Dose Response*. 2018.
155. Torgovnick A, Schiavi A, Shaik A, Kassahun H, Maglioni S, Rea SL, Johnson TE, Reinhardt HC, Honnen S, Schumacher B, Nilsen H, Ventura N. BRCA1 and BARD1 mediate apoptotic resistance but not longevity upon mitochondrial stress in *Caenorhabditis elegans*. *EMBO Rep*. 2018.

Papers Currently Under Review:

Breanne Newell Stamper¹, James R Cypser¹, Katerina Kechris², David Kitzenberg¹, Patricia M. Tedesco¹, Thomas E Johnson¹ Movement decline across lifespan of *C. elegans* mutants in insulin/insulin-like signaling pathway

Your manuscript ID is JGBS-2016-133 Your manuscript entitled "<i>C. elegans</i> genes affecting interindividual variation in lifespan biomarker gene expression" has been successfully submitted online and is presently being given full consideration for publication in the *Journal of Gerontology: Biological Sciences*.

Reviews:

1. Johnson, T. E., 1983 Aging in *Caenorhabditis elegans*, in *Review of Biological Research in Aging*, Volume 1. Rothstein, M.R. (Ed.), Alan R. Liss, NY, pp. 37-49.
2. Johnson, T. E., 1984 Analysis of the biological basis of aging in the nematode, with special emphasis on *Caenorhabditis elegans*, in *Invertebrate Models in Aging Research*. Johnson, T.E. and Mitchell, D.H. (Eds.), CRC, Boca Raton, FL, pp. 59-93.
3. Johnson, T. E., 1985 Aging in *Caenorhabditis elegans*: Update 1984, in *Review of Biological Research in Aging*, Volume 2. Rothstein, M.R. (Ed.), Alan R. Liss, NY, pp. 45-60.
4. Johnson, T. E. and Simpson, V. J., 1985 Aging studies in *Caenorhabditis elegans* and other nematodes, in *Handbook of Cell Biology of Aging*. Cristofalo, V. (Ed.), CRC, Boca Raton, FL, pp. 481-495.
5. Johnson, T. E., 1987 Invertebrate Models and Mutations, both in *Encyclopedia of Aging*. Maddox, G. (Ed.), Springer Publishing Company, NY, pp. 367-368 and pp. 464-465.
6. Johnson T.E., Friedman D.B., Fitzpatrick P.A., and Conley W.L. 1987 Mutant genes that extend life span. *Basic Life Sci*. 42:91-100, PMID: 3435398.

7. Johnson, T. E. and Foltz, N. L., 1987 Aging in *Caenorhabditis elegans*: Update 1986, in *Review of Biological Research in Aging*, Volume 3. Rothstein, M.R. (Ed.), Alan R. Liss, NY, pp. 51-61.
8. Johnson, T. E., 1988 Genetic specification of life span: Processes, problems and potentials. *J Gerontol: A Biol Sci Med Sci* **43**: B87-B92, PMID: 3290315.
9. Johnson, T. E. and Hutchinson, E. W., 1990 Aging in *Caenorhabditis elegans*: Update 1988, in *Review of Biological Research in Aging*, Volume 4. Rothstein, M.R. (Ed.), Alan R. Liss, NY, **4**: 13-25.
10. Johnson, T. E., 1990 *Caenorhabditis elegans* offers the potential for molecular dissection of the aging processes, in *Handbook of the Biology of Aging*, Third Edition. Schneider, E.L. and Rowe, J.W. (Eds.), Academic Press, New York, pp. 45-59.
11. Johnson, T. E. and Nelson, G., 1991 *Caenorhabditis elegans*: A model system for space biology studies. *Exp Gerontol* **26**: 299-309, PMID: 1915699 .
12. Johnson, T. E. and Lithgow, G. J., 1992 The search for the genetic basis of aging: The identification of gerontogenes in the nematode *Caenorhabditis elegans*. *J Am Gerontol Soc* **40**: 936-945.
13. Johnson, T. E., 1993 FRAR course on laboratory approaches to aging. Genetic influences on aging in mammals and invertebrates. *Aging: Clin Exp Res* (Milano) **5**: 299-307.
14. Wood, W. B. and Johnson, T. E., 1994 Stopping the clock. *Current Biol* **4**: 151-153.
15. Johnson, T. E., 1995 Mutations; Invertebrates; Nematodes, in *Encyclopedia of Aging*, Second Edition. Maddox, G. (Ed.), Springer Publishing Company, NY, pp. 524-525; 658-659; 673-674.
16. Johnson, T. E., Lithgow, G. J., Murakami, S., Duhon, S. A., and Shook, D. R., 1996 Genetics of Aging and Longevity in Lower Organisms, in *Cellular Aging and Cell Death*. Holbrook, N., Martin, G. R. and Lockshin, R. A. (Eds.), John Wiley and Sons, NY, pp. 1-17.
17. Johnson, T. E., Lithgow, G. J., Murakami, S., and Shook, D. R., 1996 Genetics, in *Encyclopedia of Gerontology*, Volume 1. Birren, J. E. (Ed.), Academic Press, FL, pp. 577-586.
18. Simpson, V. J. and Johnson, T. E., 1996 Genetic models in the study of anesthetic drug action, in *Int Rev Neurobio* **39**: 223-241.
19. Martin, G. M., Austad, S. N., and Johnson, T. E., 1996 Genetic analysis of aging: Role of oxidative damage and environmental stresses. *Nature Genet* **13**: 25-34.
20. Johnson, T. E., 1997 Genetic influences on aging. *Exp Gerontol* **32**: 11-22.
21. Johnson, T. E. and Link, C. D. 1998 Analisi genetica della durata della vita e dell'invecchiamento, in *Frontiere della Vita*, Parte Seconda, pp. 535-552, Enciclopedia Italiana. Republished as *Frontiers of Life*, Academic Press.
22. Warner, H. R. and Johnson, T. E., 1997 DNA alterations and aging: Is there a causal link? *Nature Genet* **17**: 368-370.
23. Johnson, T. E., 1998 Model for the Study of Aging: Nematodes, in *Encyclopedia of Aging*, Second Edition. Maddox, G. (Ed.), Springer Publishing Company, NY.

24. Johnson, T. E., 1999 Aging research in the twenty-first century. (seiki no rouka kenkyuu). **54**, 47.
25. Johnson, T. E., Cypser, J., de Castro, E., de Castro, S., Henderson, S., Murakami, S., Rikke, B., Tedesco, P., and Link C., 2000 Gerontogenes mediate health and longevity in nematodes through increasing resistance to environmental toxins and stressors. *Exp Gerontol* **35**:687-694.
26. Johnson, T. E., 2002 Roundworms: *Caenorhabditis elegans*. In Ekerdt, David J., Robert A. Applebaum, Karen C. Holden, Stephen G. Post, Kenneth Rockwood, Richard Schulz, Richard L. Sprott, and Peter Uhlenberg, (Eds.). Encyclopedia of Aging. New York: Macmillan Reference USA.
27. Murakami, S. and Johnson, T. E. 2003 Molecular genetics of longevity and stress resistance in model organisms. *Curr Genom* **4**: 63-74.
28. Johnson, T. E., 2002 A personal retrospective on the genetics of aging. *Biogerontology* **3**: 7-12.
29. Johnson, T. E., de Castro, E., de Castro, S. H. Cypser, J., Henderson, S., and Tedesco, P., 2001 Relationship between increased longevity and stress resistance as assessed through gerontogene mutations in *Caenorhabditis elegans* (Mini Review). *Exp Gerontol* **36**, 1609-1617.
30. Johnson, T. E., Life Span Extension. 2002 In Ekerdt, David J., Robert A. Applebaum, Karen C. Holden, Stephen G. Post, Kenneth Rockwood, Richard Schulz, Richard L. Sprott, and Peter Uhlenberg, (Eds.). Encyclopedia of Aging. New York: Macmillan Reference USA.
31. Johnson, T. E., de Castro, E., de Castro, S. H., Cypser, J. Henderson, S., Murakami, S., Rikke, B., Tedesco, P., and Link, C., 2002 Longevity genes in the nematode *Caenorhabditis elegans* also mediate increased resistance to stress and prevent disease. *J Inherit Metab Dis* **25**: 197-206.
32. Johnson, T. E. 2003 Advantages and disadvantages of *Caenorhabditis elegans* for aging research. *Exp Gerontol* **38**: 1329-1332.
33. Johnson, T. E. 2004 There is some truth to the fountain of youth, (but it may be a while until we can drink). *Public Policy & Aging Report*, **14**: 19-23.
34. Rikke, B. A. and Johnson, T. E. 2004 Lower body temperature as a potential mechanism of life extension in homeotherms. (An invited chapter in a tribute issue to Roy Walford.) *Exp Gerontol* **39**:927-930.
35. Abiola, O. and others, including Johnson T. E. Complex Trait Consortium. 2004 The nature and identification of quantitative trait loci: a community's view. *Nat Rev Genet* **4**:911-916.
36. Churchill, G. A. et al (The Complex Trait Consortium, including T. E. Johnson) 2004 The Collaborative Cross. A community resource for the genetic analysis of complex traits. *Nat Genet* **36**:1133-1137.
37. Johnson, T. E. 2005 Genes, phenes, and dreams of immortality: the 2003 Kleemeier Award lecture. *J Gerontol: A Biol Sci Med Sci* **60**:680-687.
38. Johnson, T. E., 2005 Life Extension, in *Encyclopedia of Aging*, Third Edition. Maddox, G. (Ed.), Springer Publishing Company, NY.

39. Houthoofd, K., Johnson, T. E., and Vanfleteren, J. R. 2005 Dietary restriction in the nematode *Caenorhabditis elegans*. *J Gerontol: A Biol Sci Med Sci* **60A**: 1125-1131.
40. Sikela, J. M., Maclaren, E. J, Kim, Y., Karimpour-Fard, A., Cai, W. W., Pollack, J., Hitzemann, R., Belknap, J., McWeeney, S., Kerns, R. T., Downing, C., Johnson, T. E., Grant, K. J., Tabakoff, B., Hoffman, P., Wu, C. C., and Miles, M. F. 2005 DNA microarray and proteomic strategies for understanding alcohol action. *Alcohol Clin Exp Res* **30**:700-708.
41. Christensen, K., Johnson, T. E., and Vaupel, J. W., 2006 The quest for genetic determinants of human longevity: challenges and insights. *Nat Rev Genet* **7**:436-448. PMC2726954
42. Bennett, B., Downing, C., Parker, C., and Johnson, T. E., 2006 Mouse genetic models in alcohol research. *Trends Genet* **22**:367-374. PMID:16573589
43. Johnson, T.E., 2006 Recent results: Biomarkers of aging. *Exp Gerontol* **41**:1243-1246.
44. Cypser, J.R., Tedesco, P., and Johnson, T. E., 2006 Hormesis and aging in *Caenorhabditis elegans*. *Exp Gerontol* **41**:935-939.
45. Houthoofd, K., Gems, D., Johnson, T. E., and Vanfleteren, J. R., 2007 Dietary restriction in the nematode *Caenorhabditis elegans*. *Interdiscip. Top Gerontol* **35**:98-114.
46. Calabrese, E. J., Bachmann, K. A., Bailer, A. J., Bolger, P. M., Borak, J., Cai, L., Cedergreen, N., Cherian, M. G., Chiueh, C. C., Clarkson, T. W., Cook, R. R., Diamond, D. M., Doolittle, D. J., Dorato, M. A., Duke, S. O., Feinendegen, L., Gardner, D. E., Hart, R. W., Hastings, K. L., Hayes, A. W., Hoffmann, G. R., Ives, J. A., Jaworowski, Z., **Johnson, T.E.**, Jonas, W.B., Kaminski, N.E., Keller, J.G., Klaunig, J.E., Knudsen, T.B., Kozumbo, W.J., Lettieri, T., Liu, S.Z., Maisseu, A., Maynard, K.I., Masoro, E.J., McClellan, R.O., Mehendale, H.M., Mothersill, C., Newlin, D.B., Nigg, H.N., Oehme, F.W., Phalen, R.F., Philbert, M.A., Rattan, S.I., Riviere, J.E., Rodricks, J., Sapolsky, R.M., Scott, B.R., Seymour, C., Sinclair, D.A., Smith-Sonneborn, J., Snow, E.T., Spear, L., Stevenson, D.E., Thomas, Y., Tubiana, M., Williams, G.M., and Mattson, M.P. 2007 Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. *Toxicol Appl Pharmacol*, J222:122-128.
47. Johnson, T.E., 2008 *Caenorhabditis elegans* 2007 The premier model for the study of aging. *Exp Gerontol* **43**:1-4. PMC:2219387.
48. Effros, R.B., Austad, S., Blau, H., Chesselet, M.-F., Ingram, D., Johnson, T.E., Kaeberlein, M., Lundblad, V., McCarter, R., McElhaney, J., and Saag, M. 2008 The Biological Sciences Section Program at the 60th Annual Meeting of The Gerontological Society of America. *J Gerontol A Biol Sci Med Sci* **63**:331-337. PMID: 18426956
49. Tissenbaum, H.A. and Johnson, T.E. 2008 Aging Processes in *Caenorhabditis elegans*, in Molecular Biology of Aging. Guarente, L., Partridge, L., & Wallace, D.C., (Eds) Cold Spring Harbor Press, Cold Spring Harbor, N.Y., pp.153-183.
50. Johnson, T.E. 2013 25 Years after *age-1*: Genes, Interventions and the Revolution in Aging Research A manuscript presented as a Keynote Address at the Eleventh International Symposium on the Neurobiology and Neuroendocrinology of Ageing, *Exp Gerontol* **48**:640-643. PMC3686982

51. Liao, C.Y., Johnson, T.E. and Nelson, J.F. 2013 Genetic variation in responses to dietary restriction – An unbiased tool for hypothesis testing. *Exp Gerontol* **48**:1025-1029. PMID: 23562825
52. Johnson, T.E. 2013 SCIENCE PERSPECTIVE Rapid aging rescue? *Science* **340**:1299-1300. PMID: 23766322.
53. Valter D. Longo, Adam Antebi, Andrzej Bartke, Nir Barzilai, Holly M. Brown-Borg, Calogero Caruso, Tyler J. Curiel, Rafael de Cabo, Claudio Franceschi, Donald K. Ingram, David Gems, Thomas E. Johnson, Brian K. Kennedy, Cynthia Kenyon, Samuel Klein, John J. Kopchick, Guenter Lepperdinger, Frank Madeo, Mario G. Mirisola, James R. Mitchell, Giuseppe Passarino, Karl L. Rudolph, John M. Sedivy, Gerald S. Shadel, David A. Sinclair, Stephen R. Spindler, Yousin Suh, Jan Vijg, Manlio Vinciguerra, Luigi Fontana, 2015 Interventions to slow aging in humans: are we ready? *Aging Cell* **14**:497-510doi: 10.1111/ace.12338 PMID 25902704.

Chapters in books:

1. Johnson, T. E., 1983 *Caenorhabditis elegans*: A genetic model for understanding the aging process, in *Intervention in the Aging Process. Part B: Basic Research and Preclinical Screening*. Regelson, W. and Sinex, F. M. (Eds.), Alan R. Liss, NY, pp. 287-305.
2. Klass, M. R. and Johnson, T. E., 1985 *Caenorhabditis elegans*, in *Interdisciplinary Topics in Gerontology, Vol. 21 Nonmammalian Models for Aging Research*. Lints, F. A. (Ed.), Karger, Basel, pp. 164-187.
3. Johnson, T. E., 1987 Developmentally programmed aging: Future directions, in *Modern Biological Theories of Aging*, Warner, H. R. Butler, R. M., Sprott, R. L., and Schneider, E. L. (Eds.), Raven Press, NY, pp. 63-76.
4. Johnson, T. E., Friedman, D. B., Fitzpatrick, P. A., and Conley, W. L., 1987 Mutant genes that extend life span, in *Evolution of Longevity in Animals*, Woodhead, A.D. and Thompson, K. H. (Eds.), Plenum, NY, pp. 91-100.
5. Johnson, T. E., Friedman, D. B., Foltz, N., Fitzpatrick, P. A., and Shoemaker, J. E., 1990 Genetic variants and mutations of *Caenorhabditis elegans* provide tools for dissecting the aging processes, in *Genetic Effects on Aging (Vol. II)*, Harrison, D.E. (Ed.), Telford, Caldwell, NJ, pp. 101-126.
6. Johnson, T. E., 1990 A developmental genetic approach to the analysis of aging processes, in *Biomedical Advances in Aging 1988*, Goldstein, A. (Ed.), Plenum Press, NY, pp. 43-49.
7. Tedesco, P. M., Link, C. D., Hutchinson, E. W. and Johnson, T. E., 1990 Cloning a gene for life-extension in *Caenorhabditis elegans*, in *Molecular Biology of Aging*, (UCLA Symposia on Molecular and Cellular Biology, Vol. 123), Finch, C.E. and Johnson, T.E. (Eds.), Alan R. Liss, NY, pp. 3-17.
8. Johnson, T. E., Hutchinson, E. W., Tedesco, P. M., Fabian, T. J., Brooks, A., and Lithgow, G. J., 1992 Cloning *age-1*, a gene that limits the life of *C. elegans*. in *Proceedings of the Fourth Asia/Oceania Regional Congress of Gerontology*, Tokyo Univ. Press, Tokyo, pp. 89-90.
9. Johnson, T. E., Arking, R., Bertrand, H., Driscoll, M., Esser, K., Griffiths, A., Harley, C., Jazwinski, S. M., Kirkwood, T., and Osiewacz, H. D., 1995 Research on diverse model systems and the genetic basis of aging and longevity, in *Molecular Aspects of Aging*, Esser, K. and Martin, G. M. (Eds.), John Wiley & Sons, Chichester, pp. 61-76.
10. Bennett, B., Markel, P. D., Beeson, M. A., Gordon, L. G., and Johnson, T. E., 1994 Mapping quantitative trait loci for ethanol-induced anesthesia in LSXSS recombinant inbred and F2 mice: Methodology and results, in *Alcohol and Alcoholism*,

- Supplement*, 2:81-88.
11. Johnson, T. E., Tedesco, P. M., and Lithgow, G. J., 1994 Comparing mutants, selective breeding, and transgenics in the dissection of aging processes of *Caenorhabditis elegans*, in *Genetics and Evolution of Aging*, Rose, M. R. and Finch, C. E. (Eds.), Kluwer Academic Publishers, Netherlands, pp.83-95 (reprint of Johnson *et al.*, *Genetica*, 1993).
 12. Johnson, T. E., and Shook, D. R., 1997 Identification and mapping of genes determining longevity, in *Between Zeus and the Salmon*, Wachter, K. W. and Finch, C. E. (Eds.), National Academy Press, Washington D. C., pp. 108-127.
 13. Johnson, T. E., Murakami, S., Shook, D. R., Duhon, S. A., and Tedesco, P. M., 1997 Identifying and cloning longevity-determining genes in the nematode *Caenorhabditis elegans*, in *Longevity: To the Limits and Beyond*, Robine, J.-M., Vaupel, J., Jeune, and Allard (Eds.), Springer-Verlag, Heidelberg, pp. 155-163.
 14. Johnson, T. E., 1997 The discovery of gerontogenes. In: *Aspects du Vieillessement: des effets socio-économiques à la biologie moléculaire*. (Presented to the French Academy of Sciences, June 18, 1996.) Académie des Sciences, Paris, pp. 101-103.
 15. Johnson, T. E. and Bruunsgaard, H., 1998 Implications of Hormesis for Biomedical Aging Research. *BELLE Newsletter*, 6: 17-19. Also published in *Human and Experimental Toxicology* (1998) 17:263-265.
 16. Johnson, T.E., 2000 Genetic Influences on Lifespan in Nematodes, in *The Science of Geriatrics*, Morley, J.E., Armbrecht, H.J., Coe, R. M., and Vellas, B. (Eds.), Springer, NY, pp. 177-185.
 17. Johnson, T.E. Shook, D., Murakami S., and Cypser, J., 1999 Increased resistance to stress is a marker for gerontogenes leading to increased health and longevity in nematodes. In *Molecular Biology of Aging*, Alfred Benzon Symposium vol. 44, Bohr, V. A., Clark, B. F., and Stevsner, T., (Eds), pp. 25-34.
 18. Simpson, V. J., Rikke, B., Shen, E., Bennett, B., Blednov, Y., and Johnson, T. E., 2000 Genetic models and mapping genes in the study of anesthetic action, in *On the Study and Practice of Intravenous Anesthesia*, Vuyk, J., Engbers, F. and Groen-Mulder, S. (Eds.), Kluwer, Dordrecht, pp. 59-67.
 19. Murakami, S., Tedesco, P. M., Cypser, J. R., and Johnson, T. E., 2000 Molecular genetic mechanisms of life span manipulation in *Caenorhabditis elegans*. In the Proceedings of the EMBO Meeting on Aging, *N. Y. Acad. Sci.*, 908:40-49.
 20. Hartman, P. S., Ishii, N., and Johnson, T. E., 2003 Genetics of aging in the nematode *Caenorhabditis elegans*. In *Chromosomal Instability and Aging" Basic Sciences and Clinical Implication*, Hisama, F. K., Martin, G. M., and Weissman, S. (Eds.), Marcel Dekker, NY, pp. 493-507.
 21. Downing, C. J., Bennett, B., and Johnson, T. E., 2005 Murine models of alcoholism: from QTL to gene. In *Computational Genetics and Genomics: Tools for Understanding Complex Disease*, Peltz, G. (Ed.), Humana Press, Totowa, New Jersey, pp. 199-252.
 22. Henderson, S.T., Rea, S.L., and Johnson, T.E., 2005 Dissecting the Processes of Aging Using the Nematode *Caenorhabditis elegans*, in *Handbook of the Biology of Aging, Sixth Edition*. Austad, S.N. and Masoro, E. J. (Eds.), Academic Press, New York, pp. 352-391.
 23. Binstock, R.H., Fishman, J.R., and Johnson, T.E., 2005 Anti-Aging medicine and science: social implications, in *Handbook of Aging and the Social Sciences, Sixth Edition*. Binstock, R.H. & George, L.K., (Eds.), Academic Press, New York, pp. 434-453.
 24. Johnson, T.E., Lithgow, G.J., Murakami, S., and Shook, R.D. 2007 Genetics in *Encyclopedia of Gerontology (Second Edition): Age, Aging, and the Aged*. J.D.

Birren (Ed.) Elsevier Inc. , Oxford, pp. 610-618.

25. Miwa, Satomi, Johnson, Thomas 2015, 'Stress and aging' in Molecular and Cellular Biology of Aging, ed J Vijg, J Campisi, G Lithgow, GSA, Washington DC, pp 221-254

Internet Presentations:

1. Johnson, T. E., Murakami, S., Cypser, J., Link, C., Rikke, B., and Tedesco, P., Genetic manipulation of longevity in *C. elegans* through increased response to stress. Internet World Congress, Dec. 7-16, 1998, <http://www.mcmaster.ca/inabis98/index.html>
2. Michalski, A. I., Johnson, T. E., Cypser, J. W., and Yashin, A. I., Changes in *C. elegans* surviving after early life heating. March 1, 2000. <http://www.stressconference.com>
3. T. E. Johnson, Subfield History: *Caenorhabditis elegans* as a System for Analysis of the Genetics of Aging *Science's SAGE KE* (28 August 2002), <http://sageke.sciencemag.org/cgi/content/full/sageke;2002/34/re4>

Solicited Manuscripts:

- Johnson, T. E., 1997 The identification of gerontogenes in the nematode *Caenorhabditis elegans* and their involvement in resistance to stress. 1997 Special Report to the U.S. Congress on Alcohol and Health, January, 1998.

Editorials:

1. Johnson, T. E., 1988 Thoughts on the selection of longer-lived rodents. *Growth Develop Aging* **52**: 207-209.
2. Johnson, T. E., 1999 Introduction to the special issue on "Genetics and Model Systems." *Neurobiol Aging* **20**: 469-470.
3. Allison, T. E., Miller, R. A., Austad, S. N., Bouchard, C., Leibel, R., Klebanov, S., Johnson, T. E., and Harrison, D. E., 2001 Genetic variability in responses to caloric restriction in animals and in regulation of metabolism and obesity in humans. *J Gerontol: A Biol Sci Med Sci* **56A**: 55-65.
4. Cypser, J. and Johnson. T. E., 2001 Hormesis extends the correlation between stress resistance and life span in long-lived mutants of *Caenorhabditis elegans*." *Hum Exp Toxicol* **20**:295-296; 319-320. CGC 4800
5. Johnson. T. E., 2001 SAGE thoughts on aging. Commentary on "Changes in gene expression associated with developmental arrest and longevity in *C. elegans*" *Gen Res* **8**:1323-1324.
6. Johnson. T. E., 2002 Commentary on "How many genes influence aging?" *Mech Ageing Dev* **123**:77-78.
7. Olshansky, S. J., *et al.* (including T.E.J. and 39 others), 2002 Position statement on anti-aging medicine." *Sci Am* **286**:92-5.
8. Johnson, T. E., Martin, G.M., and Smith, J.R., 2003 A forum for commentaries on recent publications. *J Gerontol: A Biol Sci Med Sci* **58A**: 579-580.
9. Houthoofd, K., Braeckman, B. P., Johnson, T. E., and Vanfleteren, J. R., 2004 Extending life-span in *C. elegans*. *Science* **305**:1238-1239.
10. Johnson, T. E. 2005 A salutation from the US. *Exp. Gerontol.*, **40**: 5-6.
11. Crow, J. F. and Johnson, T. E., 2005 Research on environmental effects in genetic studies of aging: comments. *J Gerontol.: B Psychol Sci Soc Sci* **60** Spec No 1:7-11.
12. Ventura, N., Rea, S. L., Henderson, S. T., Condo, I., Testi, R., and Johnson, T. E. 2006 *C. elegans* as a model for Friedreich Ataxia. *FASEB J* **20**:1029-1030.

13. Johnson, T. E. 2006 Description of the 2005 Meeting of the Special Interest Group on Societal Implications of Anti-Aging Research at the Gerontological Society of America. *Rejuven Res* **9**:431-432.
14. Johnson, T.E. 2006 For the special issue: The nematode *Caenorhabditis elegans* in aging research. *Exp Gerontol* **41**:887-889.
15. Grubeck-Loebenstein, B. and Johnson, T. 2006 Introduction to Annual Reviews in Biogerontology. *Exp Gerontol* **41**:1207.
16. Johnson, T.E. 2008 Editorial from the New Editor-in-Chief. *Exp Gerontol* **43**:811-812. PMID: 18662544
17. Simm, A., and Johnson, T.E. 2010 Biomarkers of ageing: a challenge for the future. *Exp Gerontol* **45**:731-732.
18. Johnson, T.E 2012 Announcing the outstanding paper prizes for Experimental Gerontology. *Exp Gerontol*, **47**:659.

Interviews in Scientific Journals and Books:

- An Interview with Tom Johnson, Ph.D. 2000 "Pieces of the Puzzle." *J Anti-Aging Med* **2**:325-329.
- David Stipp, 2010 *The Youth Pill: Scientists at the Brink of an Anti-Aging Revolution*. Penguin Group, NY, NY
- Theodore Anton, 2013 *Mortal Coils: the Strange Race for the Secrets of Longevity*. University of Chicago Press, Chicago, IL.

Book Reviews:

1. Johnson, T. E., 1991 *The Evolutionary Biology of Aging*, by Michael R. Rose. *Am J Hum Gene.* **49**:469-470.
2. Johnson, T. E., 1991 *A Hitchhikers Guide to Senescence: Longevity, Senescence, and the Genome*, by Caleb E. Finch. *Cell* **68**:183-184.
3. Johnson, T. E., 1995 *How and Why We Age*, by Leonard Hayflick. *Quarterly Review of Biology* **70**:331-332.
4. Johnson, T. E., 2001 *Following the Lead of the Long-Lived Mutants. The Molecular Genetics of Aging*, by Siegfried Hekimi. *Am Sci* **89**: 84-85.
5. Johnson, T. E., 2004 The Start Of Anti-Aging Medicine? *Merchants of Immortality Chasing the Dream of Human Life Extension*, by Stephen S. Hall and *Ageless Quest, One Scientist's Search for Genes that Prolong Youth* by Lenny Guarente. *The Gerontologist*, **44**: 270-270.

Books and Volumes Edited:

1. Mitchell, D. H. and Johnson, T. E. (Eds.), *Invertebrate Models in Aging Research*. CRC, Boca Raton, FL, 1984.
2. Finch, C. E. and Johnson, T. E. (Eds.), *Molecular Biology of Aging*, UCLA Symposia on Molecular and Cellular Biology, Vol. 123, Alan R. Liss, NY, 1990.
3. Johnson, T. E. Editor for Genetics: *Handbook of the Biology of Aging*, Fourth Edition. Schneider, E. L. and Rowe, J. W. (Eds.), Academic Press, NY, 1996.

Books Authored:

- Committee on Chemical Toxicity and Aging, (Johnson, T. E. Member), *Aging in Today's Environment*. 1987 National Research Council, National Academy of Sciences Press. <http://www.nap.edu/books/0309062276/html/index.html>

Papers from Students and Staff in My Research Program but not Under My Authorship (partial list):

- Hutchinson, E. W. and Rose, M. R., 1991 Quantitative genetics of postponed aging in *Drosophila melanogaster*. I. Analysis of outbred populations. *Genetics* **127**:719-727.
- Hutchinson, E. W., Shaw, A. J., and Rose, M. R., 1991 Quantitative genetics of postponed aging in *Drosophila melanogaster*. II. Analysis of selected lines. *Genetics* **127**:729-737.
- Markel, P. D. and Corley, R. P., 1994 A multivariate-analysis of repeated measures: Linkage of the albinism gene (*Tyr*) to a QTL influencing ethanol-induced anesthesia in laboratory mice. *Psychiatric Genet* **4**:205-210.
- Simpson, V. J. and Blednov, Y. A., 1996 Propofol produces differences in behavior but not chloride channel function between selected lines of mice. *Anesth Analg* **82**:327-331.
- Fay, D. S., Fluet, A., Johnson, C. J., and Link, C. D., 1998 In vivo aggregation of beta-amyloid peptide variants. *J Neurochem* **71**:1616-1625.
- Blednov, Y. A. and Simpson, V. J., 1999 Gas chromatography-mass spectrometry assay for determination of ketamine in brain. *J Pharmacol Toxicol Methods* **41**:91-95.
- Yatin, S. M., Varadarajan, S., Link, C. D., and Butterfield, D. A., 1999 *In vitro* and *in vivo* oxidative stress associated with Alzheimer's amyloid beta-peptide (1-42). *Neurobiol Aging* **20**:325-330; discussion 339-342.
- Butterfield, D. A., Yatin, S. M., and Link, C. D., 1999 *In vitro* and *in vivo* protein oxidation induced by Alzheimer's disease amyloid beta-peptide (1-42). *Ann N Y Acad Sci* **893**:265-268.
- Bennett, B. 2000 Congenic strains developed for alcohol and drug-related phenotypes. *Pharm Biochem Behav* **67**:671-681.
- Link, C. D., Johnson, C. J., Fonte, V., Paupard, M.C. Hall, D. H., Styren, S., Mathis, C. A., and Klunk, W. E., 2001 Visualization of fibrillar amyloid deposits in living, transgenic *Caenorhabditis elegans* animals using the sensitive amyloid dye, X-34. *Neurobiol Aging* **22**:217-226.
- Link, C. D. 2001 Transgenic invertebrate models of age-associated neurodegenerative diseases. *Mech Ageing Dev* **122**:1639-1649.
- Fonte, V., Kapulkin, V., Taft, A., Fluet, A., Friedman, D., and Link, C.D., 2002 Interaction of intracellular beta amyloid peptide with chaperone proteins. *Proc Natl Acad Sci USA* **99**:9439-9444.
- Link, C.D., Johnson, C.J., 2002 Reporter transgenes for study of oxidant stress in *Caenorhabditis elegans*. *Methods Enzymol* **353**:497-505.
- Blumenthal, T., Evans, D., Link, C. D., Guffanti, A., Lawson, D., Thierry-Mieg, J, Thierry-Mieg, D., Chiu, W. L., Duke K, Kiraly, M., and Kim, S. K., 2002 A global analysis of *Caenorhabditis elegans* operons. *Nature* **417**:851-854.
- Drake, J., Link, C. D., and Butterfield, D. A., 2003 Oxidative stress precedes fibrillar deposition of Alzheimer's disease amyloid beta-peptide (1-42) in a transgenic *Caenorhabditis elegans* model. *Neurobiol Aging* **324**:415-420.

- Strayer, A., Wu, Z., Christen, Y., Link, C. D., and Luo, Y., 2003 Expression of the small heat-shock protein Hsp16-2 in *Caenorhabditis elegans* is suppressed by *Ginkgo biloba* extract EGb 761. *FASEB J* **17**:2305-2307.
- Borgonie, G., Link, C. D., Claeys, M., and Coomans A., 2003 Lysosomal and pseudocoelom routing protects *Caenorhabditis elegans* from ricin toxicity. *Nematology* **5**:339-350
- Link, C. D., Taft, A., Kapulkin, V., Duke, K., Kim, S. K., Fei, Q., Wood, D. E., and Sahagan, B. G., 2003 Gene expression analysis in a transgenic *Caenorhabditis elegans* Alzheimer's disease model. *Neurobiol Aging* **24**:397-413.
- Link C. D., 2004 Invertebrate Models of Alzheimer's Disease. *Genes Brain Behav* **4**:147-156.
- Kapulkin, V., Hiester, B. G., and Link, C. D., 2005 Compensatory regulation among ER chaperones in *C. elegans*. *FEBS Lett.* **579**:3063-3068.
- Cottrell, B. A., Galvan, V., Banwait, S., Gorostiza, O., Lombardo, C. R., Williams, T., Schilling, B., Peel, A., Gibson, B., Koo, E.H., Link, C. D., and Bredesen, D. E. (2005) A pilot proteomic study of amyloid precursor interactors in Alzheimer's disease. *Ann Neurol* **58**:277-289.
- Gutierrez-Zepeda, A., Santell, R., Wu, Z., Brwon, M., Wu, Y., Khan, I., Link, C.D., Zhao, B., and Luo, Y., 2005 Soy isoflavone glycitein protects against beta amyloid-induced toxicity and oxidative stress in transgenic *Caenorhabditis elegans*. *BMC Neurosci* **6**:54.
- Bennet, B. and Carosone-Link, P., 2006 Replication of small effect QTLs for behavioral traits facilitated by estimation of effect size from independent cohorts. *Genes Brain Behav* **5**: 404-412.
- Boyd-Kimball, D., Poon, H. F., Lynn, B. C., Cai, J., Pierce, Jr. W. M., Klein, J. B., Ferguson, J., Link, C. D., and Butterfield, D. A. 2005 Proteomic identification of proteins specifically oxidized in *Caenorhabditis elegans* expressing human A β (1-42): Implications for Alzheimer's disease. *Neurobiol Aging* **27**:1239-1249.
- Link, C.D., Fonte, V., Hiester, B., Yerg, J., Ferguson, J., Csontos, S., Silverman, M.A., and Stein, G.H., 2006 Conversion of green fluorescent protein into a toxic, aggregation-prone protein by C-terminal addition of a short peptide. *J Bio Chem* **281**:1808-16.
- Link, C.D., 2006 *C. elegans* models of age-associated neurodegenerative diseases: Lessons from transgenic worm models of Alzheimer's disease. *Exp Gerontol* **41**: 1007-1013.
- Wu Y., Wu Z., Butko P., Christeen Y., Lambert, M.P., Klein W.L., Link C.D., and Luo Y., 2006 A β -induced pathological behaviors are suppressed by *Ginkgo biloba* extract and ginkgolides in transgenic *Caenorhabditis elegans*. *J Neurosci* **26**:13102-13.
- Florez-McClure, M.L., Hohsfield, L.A., Fonte, G., Bealor, M.T., and Link, C.D., 2007 Decreased insulin-receptor signaling promotes the autophagic degradation of β -amyloid peptide in *C. elegans*. *Autophagy* **3**:569-580.
- Fonte V., Kipp D.R., Yerg J., Merin D., Forrestal M., Wagner E., and Link C.D., 2008 Suppression of *in vivo* β amyloid peptide toxicity by overexpression of the HSP-16 small chaperone protein. *J Biol Chem* **283**:784-91

- Turek, V.F., Bennett, B., and Ryabinin, A.E., 2008 Differences in the urocortin 1 system between long-sleep and short-sleep mice. *Genes Brain Behav* **7**:113-119.
- Gonzales, P., and Rikke, B.A., 2009 (Thermoregulation in mice exhibits genetic variability early in senescence. *AGE*, **32**: 31-37. PMID: PMC2829639

Papers Presented at Professional Conferences but not Published:

1. Johnson, T. E. and Shook, D. R. Theoretical knowledge for demography to be gained from quantitative trait locus analysis. A presentation at the Biodemography of Aging Expert Meeting. Beckman Center, National Academy of Sciences, Irvine, CA, October 27, 1995.
2. Johnson, T. E. Quantitative trait loci for alcohol-related behaviors in non-human mammals. A report to the National Institute on Alcoholism and Alcohol Abuse in reviewing research priorities in the area of alcohol-related genetics, Washington D. C. Nov. 3, 1997.
3. Johnson, T. E. Animal genetic studies on the etiology of alcoholism. A report to the National Institute on Alcoholism and Alcohol Abuse prepared in support of the Tenth Annual Report to Congress on Alcoholism.

Abstracts

1. Johnson, T. E., 1972 A method for isolating protoperithecia. *Neurospora Newsletter* **19**:22.
2. Johnson, T. E., 1974 Some mutations affecting perithecial and spore pigmentation. *Neurospora Newsletter* **22**:19-20.
3. Johnson, T. E., 1975 Pattern formation in *Neurospora crassa* perithecial development: A mosaic analysis. *Genetics* **80**:345-346.
4. Johnson, T. E., 1976 Analysis of a perithecial developmental mutant in *Neurospora crassa* that is male and female fertile. *Genetics* **83**:36-37.
5. Johnson, T. E., 1978 A method for obtaining high specific activity radioactive extracts from perithecia. *Neurospora Newsletter* **25**:14-15.
6. Johnson, T. E., 1979 A search for position effects in *Neurospora*. *Neurospora Newsletter* **26**:14.
7. Johnson, T. E., McAfee, M. and Wood, W. B., 1979 The generation of genetic mosaics. Cold Spring Harbor Symposium on *C. elegans*, p. 34.
8. Johnson, T. E., McCaffrey, G. and Kauffman, D., 1980 Characterization of worm senescence. *C. elegans Newsletter* **5**:1.
9. Johnson, T. E., 1980 Generation of X-linked mosaics. *C. elegans Newsletter* **5**:1.
10. Johnson, T. E., McCaffrey, G. and Lashlee, C. H., 1980 Genetic control of aging in *Caenorhabditis elegans*. *Genetics* **95**:S51.
11. Johnson, T. E., Lashlee, C. H. and McCaffrey, G., 1981 Genetic control of lifespan. *C. elegans Newsletter* **6**:1.
12. Johnson, T. E., Lashlee, C. H. and McCaffrey, G., 1981 Quantitative genetics of lifespan. Abstracts of the Third International *C. elegans* Conference, p.53.
13. McCaffrey, G. and Johnson, T.E., 1981 Protein changes during lifespan: 2-D gel analysis. Abstracts of the Third International *C. elegans* Conference, p. 42.
14. Johnson, T. E., Lashlee, C. H. and McCaffrey, G., 1981 Quantitative genetics of lifespan in *Caenorhabditis elegans*. *Genetics* **97**:S53-S54.
15. Johnson, T. E., 1982 Use of recombinant inbred strains in the genetic analysis of lifespan. *C. elegans Newsletter* **7(1)**:64.
16. Kline, S. and Johnson, T. E., 1982 Effects of developmental blocks on lifespan. *C.*

- C. elegans* Newsletter **7(1)**:64.
17. McCaffrey, G. and Johnson, T. E., 1982 Absence of protein changes in "old" worms. *C. elegans* Newsletter **7(1)**:66.
 18. Johnson, T. E. and Robinson, L., 1982 Use of recombinant inbred lines in the genetic analysis of lifespan in *Caenorhabditis elegans*. *Genetics* **100**:S52.
 19. Johnson, T. E. and Robinson, L. A., 1982 Genetic analysis of lifespan in the nematode, *Caenorhabditis elegans*. *Behav Genet* **12**:588-589.
 20. Johnson, T. E., 1982 Genetic analysis of long-lived strains of the nematode, *C. elegans*. *The Gerontologist* **22**:185.
 21. Johnson, T. E., 1983 The use of recombinant inbred lines of the nematode, *Caenorhabditis elegans*, in the genetic analysis of lifespan, development and behavior. *Genetics* **104**:S37-S38.
 22. Johnson, T. E., Robinson L. and Cuccaro, P. M., 1983 Genetics of long-lived variants of *C. elegans*. Abstracts of the Fourth International *C. elegans* Conference, p. 50.
 23. Johnson, T. E., 1983 Use of recombinant inbred lines of the nematode, *Caenorhabditis elegans*, in quantitative analysis of behavior, development, and senescence. *Behav Genet* **13**:539.
 24. Cuccaro, P. and Johnson T. E., 1983 Reversible blocks of aging and development. *C. elegans* Newsletter **8.1**:15-16.
 25. Mitchell, D. H. and Johnson, T. E., 1984 Development and senescence are reversibly arrested by transient starvation in the nematode, *Caenorhabditis elegans*. *The Gerontologist* **24**:228.
 26. Johnson, T. E. and Mitchell, D. H., 1984 Aging is arrested when development is arrested in the nematode, *Caenorhabditis elegans*. *Genetics* **107**:S53.
 27. Friedman, D. B. and Johnson, T. E., 1984 Genetic analysis of a long life-span mutant strain. *C. elegans* Newsletter **8.3**:12-13.
 28. Keller, M. L. and Johnson, T. E., 1984 Movement behavior as a predictor of life-span. *C. elegans* Newsletter **8.3**:14-15.
 29. Simpson, V. J. and Johnson, T. E., 1984 No 5'methyl-cytosine in worm DNA. *C. elegans* Newsletter **8.3**:16.
 30. Friedman, D. and Johnson, T., 1985 Genetic analysis of a long-lived mutant. Abstracts of the Fifth International *C. elegans* Conference, p. 45.
 31. Johnson, T., 1985 Life-spans of induced mutants. Abstracts of the Fifth International *C. elegans* Conference, p. 58.
 32. Hartman, P., Simpson, V., and Johnson, T., 1985 Life-span of recombinant inbreds do not correlate with sensitivities to three DNA-damaging agents. Abstracts of the Fifth International *C. elegans* Conference, p. 68.
 33. Etebar, S. and Johnson, T., 1985 Effects of ionizing irradiation on life-span. Abstracts of the Fifth International *C. elegans* Conference, p. 39.
 34. Simpson, V., Johnson, T., and Klass, M., 1985 Absence of 5-methylcytosine in DNA at any age. Abstracts of the Fifth International *C. elegans* Conference, p. 133.
 35. Johnson, T. E. and the Nematode Aging Group, 1985 Life-spans of induced mutants. Abstracts of the 1st International Meeting on Biomedical Gerontology, *AGE* **8**:91.
 36. Johnson, T. E., Friedman, D. B., Fitzpatrick, P. A., Conley, W. L., and Bryant, M. L., 1986 Recessive mutations in a single gene confer life-span extensions of 70% in *Caenorhabditis elegans*. *Genetics* **113**:S30.
 37. Johnson, T. E., Friedman, D. B., Fitzpatrick, P. A., and Conley, W. L. 1986 Characterization of genetic stocks which prolong life. *The Gerontologist* **26**:75A.
 38. Johnson, T., Conley, B., and Bryant, M., 1986 Developmental effects of loci

- lengthening life-span. *C. elegans* Newsletter **9.1**:98.
39. Friedman, D. and Johnson, T., 1986 Further genetic analysis of a long-life mutant strain. *C. elegans* Newsletter **9.1**:99.
 40. Fitzpatrick, P. and Johnson, T., 1986 Analysis of the age-1 locus by three-factor crosses. *C. elegans* Newsletter **9.1**:100.
 41. Johnson, T., Wagner, J., and Nguyen, H., 1986 Isolating long-lived mutants. *C. elegans* Newsletter **9.1**:102.
 42. Johnson, T. E., Friedman, D. B., Fitzpatrick, P. A. and Conley, W. L., 1986 Mutant genes that extend life span. Brookhaven Symposium, Number 34, Abstracts, p.10.
 43. Friedman, D. B. and Johnson, T. E., 1986 Mutations specifying increased mean and maximum life-span in the nematode, *Caenorhabditis elegans*. Ann Meetings Soc Develop Biol.
 44. Cruzen, M. and Johnson, T., 1987 Lysosomal enzyme activity as a biomarker of aging using long-lived lines of *Caenorhabditis elegans*. Abstracts of the Sixth International *C. elegans* Conference, p. 155.
 45. Friedman, F. and Johnson, T., 1987 Genetic analysis of *age-1*, a gene which increases mean and maximum life span in *C. elegans*. Abstracts of the Sixth International *C. elegans* Conference, p. 130.
 46. Fitzpatrick, P. and Johnson, T., 1987 Attempts to separate long life and reduced fertility using four factor crosses. Abstracts of the Sixth International *C. elegans* Conference, p. 145.
 47. Shoemaker, J., Friedman, D., Fitzpatrick, P., and Johnson, T. E., 1987 Deficiency mapping of the *age-1* locus in *Caenorhabditis elegans*. Abstracts of the Sixth International *C. elegans* Conference, p. 43.
 48. Foltz, N. and Johnson, T., 1987 Life span and self-fertility polygenes in *C. elegans*. Abstracts of the Sixth International *C. elegans* Conference, p. 143.
 49. Johnson, T. E., 1987 Recombinant inbred lines can be used to conveniently map cloned DNA fragments based solely on strain distribution patterns. *C. elegans* Newsletter **10.1**:15.
 50. Shoemaker, J. E. and Johnson, T., 1987 Progress in cloning the *age-1* gene. *C. elegans* Newsletter **10.1**:16.
 51. Cruzen, M. and Johnson, T., 1987 Preparation and maintenance of age-synchronous mass cultures. *C. elegans* Newsletter **10.1**:141.
 52. Johnson, T. E., 1988 A mutation in a single gene produces a 70% increase in the life span of the round worm *Caenorhabditis elegans*. Abstracts of the International Symposium on the Biology of Aging, pp. 22-26.
 53. Foltz, N. and Johnson, T., 1988 Long life and low fertility: mating experiments with mutants and wild-type hermaphrodites. Abstracts of the 1988 *C. elegans* meetings at Arrowhead.
 54. Shoemaker, J., Fitzpatrick, P., and Johnson, T., 1988 Strange happenings at the *age-1* locus. Abstracts of the 1988 *C. elegans* meetings at Arrowhead.
 55. Johnson, T. E., 1988 Genetic modulation of the aging processes. 39th Annual Meeting of the Tissue Culture Association.
 56. Johnson, T. E., 1988 A developmental genetic approach to the analysis of aging processes. Biomedical Advances in Aging '88, Abstracts.
 57. Foltz, N., Johnson, T.E., and Shoemaker, J. E., 1988 Long life and low fertility: mating effects on life span. *C. elegans* Newsletter **10.2**:37.
 58. Johnson, T. E., 1988 How genetics can be used to infer causality among aging related events. 41st Annual Meeting of the Gerontological Society of America.
 59. Johnson, T. E., 1988 Mutant genes that extend life span. *The Gerontologist* **28**:298A.

60. Hutchinson, E. W., Tedesco, P. M., Link, C. D., and Johnson, T. E., 1989 Cloning genes for life-extension in *Caenorhabditis elegans*. *J Cell Biochem* **13C**:140.
61. Hutchinson, E. W., Tedesco, P., and Johnson, T. E., 1989 Molecular and genetic localization of *age-1*: one gene and its nature. Abstracts of the Seventh International Meeting on *C. elegans*, p.130.
62. Fabian, T. J. and Johnson, T. E., 1989 Age-dependent transcription. Abstracts of the Seventh International Meeting on *C. elegans*, p. 73.
63. Johnson, T. E., 1989 Molecular genetic analysis of processes limiting life. Third International Congress of Biomedical Gerontology.
64. Johnson, T. E., 1989 Genetic analysis of life span: Whence and Where. *The Gerontologist* **29**:64A.
65. Johnson, T. E., 1989 Aging: Is it all in your genes? 90 Minutes, Alumni lecture series at University of Colorado.
66. Johnson, T. E., 1990 Aging genes in worms. 1990 American Association for the Advancement of Science Annual Meeting Abstracts, p. 129.
67. Hutchinson, E. W., Tedesco, P. M., and Johnson, T. E., 1990 Antagonistic pleiotropy in nematode aging: a genetic analysis. Society for Evolutionary Biology Annual Meeting.
68. Johnson, T. E., 1990 Genetic analysis of aging genes in nematodes. Workshop on the Correlations of Aging and Space Effects on Biosystems (CASEB).
69. Johnson, T. E., Tedesco, P. M., and Hutchinson, E. W., 1990 Molecular and classical genetic analysis of life span in *Caenorhabditis elegans*. *The Gerontologist* **30**:251A-252A.
70. Brooks, A. and Johnson, T. E., 1990 Fertility in *C. elegans*. Abstracts of the 1990 West Coast *C. elegans* meetings, Seattle, WA.
71. Johnson, T. E., Tedesco, P. M. and Hutchinson, E. W., 1990 Cloning a gene specifying life-span extension. Third Serling Symposium on the Biology of Aging, Jerusalem, Israel.
72. Johnson, T. and Tedesco, P., 1990 Identification of deficiency endpoints surrounding *fer-15* and *emb-27*. *C. elegans Newsletter* **11.4**:14.
73. Hutchinson, E. W. and Johnson, T. E., 1990 *age-1* and *fer-15* are separate genes. *C. elegans Newsletter* **11.4**:74.
74. Fabian, T. and Johnson, T., 1990 Isolation of cDNAs differentially expressed during the adult life span. *C. elegans Newsletter* **11.4**:13.
75. Brooks, A. and Johnson, T., 1990 Effects of deficiencies on hermaphrodite fertility. *C. elegans Newsletter* **11.4**:73.
76. Johnson, T. E., Greenlee, J. T., and Markel, P. D., 1991 QTL mapping of genes conferring ethanol sensitivity. *Alcohol Clin Exp Res* **15**:320.
77. Johnson, T. E., 1991 Identifying and cloning genes that limit life span of *Caenorhabditis elegans*. 1991 Asia/Oceania Conference on Gerontology, Yokohama, Japan.
78. Brooks, A., Wold, R., and Johnson, T. E., 1991 The interaction between hermaphrodite fertility and life span. Abstracts of the Eighth International Meeting on *C. elegans*.
79. Tedesco, P., Hutchinson, E., and Johnson, T. E., 1991 Deficiency mapping shows that reduced hermaphrodite self fertility is separable from *age-1*. Abstracts of the Eighth International Meeting on *C. elegans*.
80. Fabian, T. J. and Johnson, T., 1991 Isolation and characterization of genes which are differentially expressed during the adult life span. Abstracts of the Eighth International Meeting on *C. elegans*.
81. Hutchinson, E., Lindsay, D., and Johnson, T. E., 1991 Multi-point mapping of *age-1*.

- Abstracts of the Eighth International Meeting on *C. elegans*.
82. Duhon, S. and Johnson, T., 1991 Movement and pharyngeal pumping as biomarkers of longevity. Abstracts of the Eighth International Meeting on *C. elegans*.
 83. Brooks, A., Wold, R., and Johnson, T. E., 1991 The interaction between hermaphrodite fertility and life span in *C. elegans*. *The Gerontologist* **31** (special edition II):77.
 84. Hutchinson, E. W., Lindsay, D., and Johnson, T. E., 1991 Multi-point mapping of *age-1*. *The Gerontologist* **31** (special edition II):180.
 85. Brooks, A., Wold, R., and Johnson, T. E., 1991 The interaction between hermaphrodite fertility and life span in *C. elegans*. *AGE* **14**:139.
 86. Johnson, T., Fabian, T., Tedesco, P., and Hutchinson, T., 1991 Molecular genetic approaches to the analysis of aging in *Caenorhabditis elegans*. *AGE* **14**:135-136.
 87. Fabian, T. J. and Johnson, T. E., 1991 Differential gene expression during the adult life span of *C. elegans*. *AGE* **14**:143.
 88. Duhon, S. and Johnson, T., 1991 Movement and pharyngeal pumping as biomarkers of longevity in *Caenorhabditis elegans*. *AGE* **14**:140.
 89. Johnson, T. E., Tedesco, P. M., Hutchinson, E. W., Brooks, A., and Lithgow, G. J., 1992 Identification and cloning of gerontogenes in *Caenorhabditis elegans*. Abstracts of the annual meeting of the American Association for the Advancement of Science, Chicago.
 90. Jensen, A. and Johnson T., 1992 Paraquat resistance maps near the *age-1* locus in multipoint mapping in Age recombinant strains. *C. elegans* Newsletter **12.2**:101.
 91. Tedesco, P. and Johnson, T., 1992 Integrated transgenic lines rescue fertility in Age strains. *C. elegans*. Newsletter **12.2**:39.
 92. Markel, P. D. and Johnson, T. E., 1992 Detection of QTLs regulating ethanol sensitivity using STS mapping. *Alcohol Clin Exp Res* **16**:373.
 93. Fabian, T. and Johnson, T., 1992 Differential gene expression in the adult life span of *C. elegans*. Abstracts of the 1992 Cold Spring Harbor Meeting on the Molecular Biology of Aging p. 55.
 94. Lithgow, G. J., Tedesco, P. M., Hutchinson, E. W., Melov, S., and Johnson, T. E., 1992 Cloning of the *C. elegans* gerontogene, *age-1*. Abstracts of the 1992 Cold Spring Harbor Meeting on the Molecular Biology of Aging, p. 16.
 95. Johnson, T. E., Hutchinson, E. W., Tedesco, P., Brooks, A., Fabian, T. J., Duhon, S., Lithgow, G. J., and Melov, S. L., 1992 Genetic approaches to the dissection of aging processes of *Caenorhabditis elegans*. Abstracts of the 1992 Cold Spring Harbor Meeting on the Molecular Biology of Aging, p. 63.
 96. Lithgow, G. J., Johnson, T. E., Tedesco, P. M., Brooks, A., Fabian, T. J., Duhon, S. A., and Melov, S. L., 1992 Genetic approaches to the dissection of aging processes of *Caenorhabditis elegans*. *Behav Genet* **22**:732.
 97. Johnson, T. E., DeFries, J. C., Jensen, A. K., and Markel, P. D. , 1992 Mapping quantitative trait loci for behavioral traits in the mouse. *Behav Genet* **22**:728.
 98. Duhon, S. A. and Johnson, T. E., 1992 Movement and pharyngeal pumping as biomarkers of aging in *Caenorhabditis elegans*. *Behav Genet* **22**:719.
 99. Markel, P. D. and Johnson, T. E., 1992 Repeatability of ethanol induced sleep time in mice. *Behav Genet* **22**:734.
 100. Fabian, T. J. and Johnson, T. E., 1992 Age-dependent expression during the adult life span of *Caenorhabditis elegans*. *Behav Genet* **22**:720.
 101. Brooks, A. and Johnson, T. E., 1992 Mapping quantitative trait loci for life span and self-fertility. *Behav Genet* **22**:712.
 102. Brooks, A., Johnson, T.E., and Hutchinson, T., 1992 Mapping quantitative trait loci for life span and self-fertility. *C. elegans* Newsletter **12.3**:114-115.

103. Johnson, T., Lithgow, G., Tedesco, P., Brooks, A., Fabian, T., Duhon, S., Jensen, A., and Melov, S., 1992 Genetic dissection of aging processes in *Caenorhabditis elegans*. Fourth Serling Symposium on the Biology of Aging.
104. Nelson, J. F., Karelus, K., Felicio, L. S., and Johnson, T. E., 1992 Reproductive lifespan differs among genotypes and is correlated with longevity in mice. *The Gerontologist* **32** (special edition II):218.
105. Brooks, A. and Johnson, T. E., 1992 Mapping quantitative trait loci for life span and self-fertility in the nematode *Caenorhabditis elegans*. *The Gerontologist* **32** (special edition II):121-122.
106. Lithgow, G. J., Tedesco, P. M., Hutchinson, E. W., Melov, S., and Johnson, T. E., 1992 Cloning of a life-span-limiting gene from *C. elegans*. Molecular Mechanisms of Aging Symposium.
107. Melov, S., Jensen, A., and Johnson, T. E., 1992 Examination of the effects of paraquat on long lived strains of *C. elegans*. Molecular Mechanisms of Aging Symposium.
108. Fabian, T. J. and Johnson, T. E., 1993 Isolation of genes that are differentially expressed during aging in *C. elegans*. Molecular Biology of Aging, Keystone Symposium, *J Cell Biochem Supp* **17D**:159.
109. Lithgow, G. J., Tedesco, P. M., Hutchinson, E. W., Melov, S. L., Jensen, A., Duhon, S., and Johnson, T. E., 1993 Molecular genetics of *C. elegans* life span. Molecular Biology of Aging, Keystone Symposium, *J Cell Biochem Supp* **17D**:144.
110. Melov, S. L. and Johnson, T. E., 1993 Mitochondrial deletions with age in the nematode *C. elegans*. Meeting on Molecular Biology of Aging, Keystone Symposium, *J Cell Biochem Supp* **17D**:166.
111. Duhon, S.A. and Johnson, T.E., 1993 Detection of new long-lived mutants in *Caenorhabditis elegans*. *The Gerontologist* **33**:96.
112. Johnson, T. E., Cassel, C., Cole, T., Binstock, R., and Hackler, C., 1993 Adding life to years: Realty, implications, societal and ethical considerations. *The Gerontologist* **33**:95-96.
113. Johnson, T. E., 1993 What is the role of genetics in longevity? *The Gerontologist* **33**:202-203.
114. Duhon, S. and Johnson, T., 1993 Movement as index of vitality. Abstracts of the Ninth International Meeting on *C. elegans*, p. 108.
115. Fabian, T., Gehle, V., and Johnson, T., 1993 Isolation of genes having differential expression during aging in *C. elegans*. Abstracts of the Ninth International Meeting on *C. elegans*, p. 125.
116. Lithgow, G., Tedesco, P., Hutchinson, E., and Johnson, T., 1993 Toward cloning of the *C. elegans* gerontogene, *age-1*. Abstracts of the Ninth International Meeting on *C. elegans*, p. 278.
117. Lithgow, G., White, T., Melov, S., Jensen, A., and Johnson, T., 1993 Response of long-lived mutant strains to stress. Abstracts of the Ninth International Meeting on *C. elegans*, p. 279.
118. Melov, S. and Johnson, T., 1993 Increase in mitochondrial deletions (dmtDNA) with age in the nematode *C. elegans*. Abstracts of the Ninth International Meeting on *C. elegans*, p. 309.
119. Markel, P., Beeson, M., Gordon, L., and Johnson, T., 1993 Mapping of QTLs regulating ethanol-induced anesthesia. *Psyc Genet* **3**:141.
120. Lithgow, G., Tedesco, P., Hutchinson, T., White, T., Melov, S., and Johnson, T., 1993 Molecular genetics of aging in *C. elegans*. Abstracts of Symposium on the Cellular and Molecular Aspects of Aging.
121. Johnson, T. E., Markel, P. D., Fulker, D. W., DeFries, J. C., and Melov, S.,

- 1994 Mapping QTLs for ethanol-induced anesthesia in LSXSS recombinant inbred and F₂ mice. Abstracts of Seventh Congress of the International Society for Biomedical Research on Alcoholism. *Alcohol Clin Exp Res* **18**:6A.
122. Fulker, D. W., Markel, P. D., DeFries, J. C., Corley, R. P., and Johnson, T. E., 1994 Use of interval mapping to localize quantitative trait loci in recombinant inbred strains. *Alcohol Clin Exp Res* **18**:452.
123. Markel, P. D., Beeson, M. A., Gordon, L., DeFries, J. C., Melov, S., and Johnson, T. E., 1994 Mapping QTLs influencing ethanol-induced anesthesia in LS and SS mice. *Alcohol Clin Exp Res* **18**:452.
124. Simpson, V. J., Keller, A. L., and Johnson, T. E., 1994 An analysis of LSXSS sleep time response to the anesthetic inhalational agents isoflurane and enflurane. *Alcohol Clin Exp Res* **18**:485.
125. Hinerfeld, D., Lithgow, G. J., and Johnson, T. E., 1994 Decrease in thermotolerance with age in long-lived mutants of *C. elegans*. *The Gerontologist* **34**:18, 129, 364.
126. Johnson, T. E., Kenyon, C., Larsen, P., Shmookler-Reis, R. J., and Lithgow, G. J., 1994 The nematode *C. elegans*, a model for the genetic analysis of aging processes. *The Gerontologist* **34**:317.
127. Johnson, T. E., 1994 Genetic influences on longevity and aging rate. *The Gerontologist* **34**:292.
128. Lithgow, G. J., White, T., Hinerfeld, D., Duhon, S. A., and Johnson, T. E., 1994 Thermotolerance exhibited by a long-lived *C. elegans* mutant. Cold Spring Harbor Laboratory Meeting on the Biology of Heat Shock Proteins and Molecular Chaperones, p. 173.
129. Johnson, T. E., 1994 Testing biological theories of aging: Fact versus theory. *The Gerontologist* **34**:114.
130. Johnson, T. E., Simpson, V. J., Markel, P. D., Bennett, B., Beeson, M. A., and Gordon, L., 1994 Mapping quantitative trait loci influencing general anesthesia sensitivity in LS and SS mice. Mouse Genome Conference, London.
131. Johnson, T. E., Lithgow, G. J., Murakami, S., Tedesco, P. M., Duhon, S. A., Shook, D. R., White, T. M., and Melov, S., 1994 Dissection of the physiology underlying long-lived mutants of *C. elegans*.
132. Rikke, B. A., Bennett, B., Markel, P. D., Simpson, V. J., Johnson, D. K., Montoliu, L., and Johnson, T. E., 1995 Identification of a QTL for ethanol and general anesthetic sensitivity near the albino locus. *Alcohol Clin Exp Res* **19**:47A.
133. Bennett, B., Markel, P. D., Beeson, M. A., Gordon, L., and Johnson, T. E., 1995 Mapping QTLs influencing ethanol-induced anesthesia in LS and SS mice: F₂ confirmation. *Alcohol Clin Exp Res* **19**:47A.
134. Simpson, V. J., Keller, A., Bennett, B., and Johnson, T. E., 1995 Mapping QTLs influencing general anesthetic sensitivity in LS and SS mice. *Alcohol Clin Exp Res* **19**:47A.
135. Cherny, S. S., Corley, R. P., Fulker, D. W., DeFries, J. C., Goodman, D. W., Markel, P. D., and Johnson, T. E., 1995 Regression approaches to QTL analyses in selected F₂ samples. *Alcohol Clin Exp Res* **19**:48A.
136. Lithgow, G. J., White, T. M., and Johnson, T. E., 1995 *age-1* thermotolerance may be associated with hsp16 accumulation. *C. elegans Newsletter*, p. 81.
137. Lithgow, G. J., White, T. M., and Johnson, T. E., 1995 Stress response and lifespan. *C. elegans Newsletter*, p. 82.
138. Murakami, S. and Johnson, T. E., 1995 A common phenotype of longer life mutants in *C. elegans*. *C. elegans Newsletter*, p. 83.
139. Shook, D. R., Brooks, A. and Johnson, T. E., 1995 QTL mapping of life history

- traits in *C. elegans*. *Behav Genet* **25**:300.
140. Hanebuth, E., Johnson, T. E., Fulker, D. W., and Wehner, J. M., 1995 Quantitative trait loci for bicuculline seizure susceptibility in long-sleep and short-sleep recombinant inbred strains of mice. *Behav Genet* **25**:269.
141. Christensen, S. C., Johnson, T. E., Markel, P. D., Fulker, D. W., Corley, R. P., Collins, A. C., and Wehner, J. M., 1995 Quantitative trait locus analyses of sleep-times induced by several sedative-hypnotic drugs of abuse in LSXSS recombinant inbred strains of mice. *Behav Genet* **25**:260.
142. Duhon, S. A. and Johnson, T. E., 1995 The isolation and characterization of age mutants. Abstracts of the Tenth International Meeting on *C. elegans*, p. 194.
143. Murakami, S. and Johnson, T. E., 1995 Longer-life mutants share a common mechanism conferring stress resistance in *C. elegans*. Abstracts of the Tenth International Meeting on *C. elegans*, p. 390.
144. Shook, D. R., Brooks, A., and Johnson, T. E., 1995 QTL mapping of life history traits in *C. elegans*. Abstracts of the Tenth International Meeting on *C. elegans*, p. 468.
145. Simpson, V. J., Keller, A., Rikke, B., Bennett, B., Johnson, D., and Johnson, T. E., 1995 Mapping QTLs influencing general anesthetic sensitivity in LS and SS mice. *The Biology and Genetics of Complex Mammalian Traits*, Bar Harbor, ME.
146. Johnson, T. E., Bennett, B., Rikke, B., Beeson, M., and Gordon, L., 1995 Mapping QTLs for ethanol sensitivity in LS and SS mice. *The Biology and Genetics of Complex Mammalian Traits*, Bar Harbor, ME.
147. Christensen, S. C., Johnson, T. E., Markel, P. D., Fulker, D. W., Corley, R. P., Collins, A. C., and Wehner, J. M., 1995 Quantitative trait locus analyses of sleep-times induced by several sedative-hypnotics in LSXSS recombinant inbred strains of mice. *Alcohol Clin Exp Res* **19**:47A.
148. Erwin, V. G., Radcliffe, R. A., Jones, B. C., Johnson, T. E., and Fulker, D. W., 1995 Genetic correlations and quantitative trait loci for ethanol actions and neurotensin levels in brain regions from LS X SS RI strains of mice. *Alcohol Clin Exp Res* **19**:47A.
149. Erwin, V. G., Jones, B. C., Fulker, D. W., and Johnson, T. E., 1995 Quantitative trait loci for ethanol actions and neurotensin receptors in brain regions from LS X SS RI strains of mice. *Alcohol Clin Exp Res* **19**:47A.
150. Johnson, T. E., Bennett, B., Rikke, B., Simpson, V. J., Beeson, M., and Gordon, L., 1995 From character to clone: Mapping the mouse genes responsible for sensitivity to ethanol. *Obesity Res* **3**:316s.
151. Smith, D. W. E., Carues, B. A., Olshansky, S. J., Grahn, D., Johnson, T. E., and Vaupel, J. W., 1995 New perspectives on longevity. *The Gerontologist* **35**:278.
152. Johnson, T. E., 1995 Tutorial on models for the study of aging. *The Gerontologist* **35**:125.
153. Duhon, S. A. and Johnson, T. E., 1995 Isolation and characterization of age mutants. *C. elegans Newsletter*, **14**:101.
154. Murakami, S., Tedesco, P. M., Lithgow, G. J., Hutchinson, E. W., and Johnson, T. E., 1995 Mapping of *age-1* and *daf-23*. *C. elegans Newsletter*, **14**:100.
155. Johnson, T. E., Markel, P. D., Bennett, B., Hume, G., Rikke, B., Beeson, M., and Gordon, L., 1996 Mapping QTLs for ethanol sensitivity in F₂ from ILS by ISS mice. *Alcohol Clin Exp Res* **20**:26A.
156. Johnson, T. E., Murakami, S., Tedesco, P. M., Duhon, S. A., Shook, D. R., and Lithgow, G. J., 1996 Identifying and cloning longevity-determining genes in the nematode *C. elegans*. *Colloques Médecine et Recherche, Fondation IPSEN*.
157. Simpson, V. J., Keller, A. L., Rikke, B., and Johnson, T. E., 1996 Testing the

- role of the *Tyr* gene in propofol/ethanol neurosensitivity in LS/SS mice. *Alcohol Clin Exp Res* **20**:24A.
158. Simpson, V. J., Costello, J., Rikke, B., Corley, R., and Johnson, T. E., 1996 Mapping a major QTL for propofol neurosensitivity in F2 mice from an LS by SS cross. *Anesthesiology*.
 159. Shook, D. R., Hinerfeld, D. A., and Johnson, T. E., 1996 QTLs for life history traits in *Caenorhabditis elegans*. *The Gerontologist* **36**:203.
 160. Shook, D. R., Brooks, A., and Johnson, T. E., 1995 Mapping life history QTLs using *C. elegans* recombinant inbred strains: a model system for detecting antagonistic pleiotropy and epistasis at the single gene level. Evolutionary Biology Meetings, Poster Abstracts.
 161. Rikke, B. A., Johnson, D. A., and Johnson, T. E., 1996 Microsatellite-based physical and genetic maps of the murine albino deletion complex to support the positional cloning of developmental genes. Cold Spring Harbor Mouse Molecular Genetics Meeting.
 162. Murakami, S., Tedesco, P. M., Dames, S., and Johnson, T. E., 1996 A geronto- pathway confers stress resistance. *The Gerontologist* **36**:204.
 163. Bennett, B., Beeson, M., Gordon, L., and Johnson, T. E., 1997 Identifying the genes underlying the QTLs for ethanol sensitivity in LS and SS mice: Confirmation of QTLs using marker-assisted selection. *Alcohol Clin Exp Res* **21**: 18A.
 164. Johnson, T. E., Bennett, B., Beeson, M., and Gordon, L., 1997 Identifying the genes underlying the QTLs for ethanol sensitivity in LS and SS mice: Marker-assisted congenic construction. *Alcohol Clin Exp Res* **21**: 18A.
 165. Erwin, V. G., Costello, J., and Johnson, T. E., 1997 Development of congenic C57BL strains with DBA alleles for ethanol avoidance; Confirmation of QTL regulating ethanol consumption. *Alcohol Clin Exp Res* **21**: 18A.
 166. Johnson, T. E., Murakami, S., Link, C., and Lithgow, G., 1997 Genetic determination of aging in *C. elegans*: The role of the stress response system. Fourth North-South Human Genome Conference, UNESCO.
 167. Cypser, J. R. and Johnson, T. E., 1997 Stress resistance and life span in selected strains. 11th International *C. elegans* Meeting, p. 600.
 168. Dames, S. A. and Johnson, T. E., 1997 Mortality kinetics of large populations of *C. elegans*. 11th International *C. elegans* Meeting, p. 598.
 169. Murakami, S. and Johnson, T. E., 1997 Anti-aging kinase receptor. 11th International *C. elegans* Meeting, p. 338.
 170. Murakami, S., Kliminskaya, M., and Johnson, T. E., 1997 *daf-23* may not be *age-1*. 11th International *C. elegans* Meeting, p. 337.
 171. Johnson, T. E., Murakami, S., Link, C., Rikke, B., Dames, S., and Cypser, J. 1997 Gerontogenes leading to increased health and longevity in nematodes. Bat-Sheva Seminar on Cellular, Molecular and Genetic Aspects of Aging and Longevity, December 7-12, 1997, Israel
 172. Johnson, T. E., Murakami, S., Link, C., Rikke, B., and Cypser, J. 1998 Increased resistance to stress is a marker for gerontogenes leading to increased health and longevity in nematodes. Alfred Benzon Symposium No. 44, Copenhagen, Denmark.
 173. Shen, E.H., Moir, P.T., and Johnson, T.E., 1998 Effects of ketamine on locomotor activity and loss of righting reflex in LS and SS mice. *Alcohol Clin Exp Res* **22**: 101A.
 174. Johnson, T.E., and Bennett, B., 1998 Phenotypic confirmation of QTLs for ethanol sleep time using congenic strains of mice. *Alcohol Clin Exp Res* **22**: 101A.
 175. Whatley, V. J., Erwin, V. G., and Johnson, T. E., 1998 Identification of QTLs

- responsible for ethanol preference in the development of congenic C57BL/6 strains with DBA/2 donor alleles. *Alcohol Clin Exp Res* **22**: 101A.
176. Shimizum, M., Tsuboyama, T., Matsushita M., Higuchi, K., Hosokaza, M., Bennett, B., Johnson, T.E., and Nakamura, T., 1998 Identification of quantitative trait loci that control low PFAK bone mass using a spontaneously osteoporotic mouse strain. Samp6. 3rd Comined Meeting of the Orthopaedic Research Societies, September 28-30, 1998, Japan.
177. Johnson, T. E., 1998 Life extension as resistance to stress: toward a molecular description. NHMCC Bio/Technology Conferences: Frontiers in Aging research and Age-Related Diseases, Oct. 5-7, San Diego, CA. (Meeting cancelled).
178. Johnson, T. E., Murakami, S., Link, C., Tedesco, P., Rikke, B., and Cypser, J., 1999 Genetic and environmental manipulation of longevity in *C. elegans*. Keystone Symposia: Aging: Genetic and Environmental Influences on Life Span, February 2-7, Durango, CO.
179. Cypser, J. R., Johnson, T. E., 1999 Hormesis, gerontogenes and *daf-16*. Keystone Symposia: Aging: Genetic and Environmental Influences on Life Span, February 2-7, Durango, CO.
180. Murakami, S., Kliminskaya, M., and Johnson, T. E., 1999 Positive regulation of longevity and resistance to environmental stress by TKR-1 receptor tyrosine kinase in *C. elegans*. Keystone Symposia: Aging: Genetic and Environmental Influences on Life Span, February 2-7, Durango, CO.
181. Johnson, T. E., Murakami, S., Cypser, J., Link, C., Rikke, B., and Tedesco, P., 1998 Genetic manipulation of longevity in *C. elegans* through increased response to stress. Internet World Congress, Dec. 7-16, 1998, <http://www.mcmaster.ca/inabis98/index.html>.
182. Johnson, T. E., and Bennett, B., 1999 Phenotypic confirmation of QTLs for ethanol sleep time using congenic and recombinant congenic strains of mice. *Alcohol Clin Exp Res* **23**: 61A.
183. Ehringer, M., Thompson, J., Xu, Y., Yang, F., Beeson, M., Gordon, L., Bennett, B., Johnson, T. E., and Sikela, J. M., 1999 High throughput sequencing of candidate genes for alcohol-related QTLs. *Alcohol Clin Exp Res* **23**: 105A.
184. Wick, M. J., Whatley, V. J. Johnson, T. E., Erwin, W. J., and Harris, R. A., 1999 Differentially expressed mRNA species in a congenic mouse model of alcohol preference/avoidance. *Alcohol Clin Exp Res* **23**: 106A.
185. Johnson, T. E., Murakami, S., Tedesco, P., Cypser, J., deCastro, E., and Link C., 1999 Uncovering the secrets of aging using genetics in the nematode *C. elegans*. Proceedings of the 22nd Annual Meeting of the Japanese Society of Biomedical Gerontology, Japan.
186. Johnson, T.E., Bennett, B. Sikela, J., Ehringer, M. Xu, Y., and Wick, M., 2000 Uncovering genes for neurosensitivity to ethanol and general anesthetics. Keystone Meetings on Alcohol Action, Lake Tahoe, NV.
187. Yashin, A., Cypser, J.R., Johnson, T.E., Michalski, A., and Boyko, S., 1999 Stress and longevity: a statistical modeling perspective. Abstracts of the Population Association of America.
188. Shen, E. H. and Johnson, T. E., 2000 Provisional QTLs in common for ethanol and anesthetic sensitivity. Keystone Meetings on Alcohol Action, Lake Tahoe, NV.
189. Owens, J., Bennett B., and Johnson, T. E., 2000 Specification of ataxia, hypothermia, and locomotor activation of *Lores-1*, *-2*, and *-5* using lore congenics. Keystone Meetings on Alcohol Action, Lake Tahoe, NV.
190. Johnson, T. E., 2000 From QTL to Gene. Workshop at the RSA meetings, Denver, CO.

191. Yashin, A.I., Cypser, J. R., Johnson, T.E., Michalski, A.I., Boyko, S. I., and Novoseltcev, V. N., 2000 Aging and survival after different doses of heat shock: the results of analysis of data from stress experiments with the nematode *Caenorhabditis elegans*. European Conference on Biogerontology, St-Petersburg, Russia.
192. Owens, J. C., Bennett, B., and Johnson, T. E., 2000 Pleiotropy for hypnotic sensitivity to ethanol and ethanol-induced locomotor activation using *Lore-1* congenics. *Alcohol Clin Exp Res* **24**: 97A.
193. Ehringer, M., Thompson, J., Conroy, O., Xu, Y., Yang, F., Canniff, J., Beeson, M., Gordon, L., Bennett, B., Johnson, T.E., and Sikela, J. M., 2000 High-throughput sequencing of candidate genes for alcohol-related QTLs. *Alcohol Clin Exp Res* **24**: 98A.
194. Rikke, B.A, Simpson, V. J., Montoliu, L., and Johnson, T. E., 2000 No effect of albinism on sensitivity to ethanol and general anesthetics. *Alcohol Clin Exp Res* **24**: 58A.
195. Shen, E.H. and Johnson, T. E., 2000 QTLs in common for ethanol and anesthetic-induced loss of righting reflex. *Alcohol Clin Exp Res* **24**: 97A.
196. Bennett, B. and Johnson, T. E., 2000 Confirmation of QTLs for ethanol sleep time using congenic and recombinant congenic mice. *Alcohol Clin Exp Res* **24**: 96A.
197. Yashin, A.I., Cypser, J.W., Johnson, T.E., Michalski, A.I., Boyko, S.I., and Novoseltcev, V.N., 2000 Stress, aging and longevity: experimental data and models, *The Gerontologist*.
198. Ehringer, M., Thompson, J., Conroy, O., Xu, Y., Yang, F., Canniff, J., Beeson, M., Gordon, L., Bennett, B., Goldman, D., Schuckit, M., Johnson, T. E., and Sikela, J. M., 2000 Progress toward gene identification for alcohol-related phenotypes. *Am Soc Human Genet* **67**:329.
199. Lund, J., Tedesco, P., Duke, K., Kim, S. K., and Johnson, T. E., 2001 Global profile of gene expression during aging. Abstracts of the 2001 Gordon Research Conference, Oxford, U.K.
200. MacLaren, E., Ehringer, M., Kaiser, A., Yang, F., Soriano, B., Bennett, B. Johnson, T.E., and Sikela, J.M., 2001 Genomic approaches to the identification of gene coding region and regulatory differences in QTL candidate genes for alcohol sensitivity. *Alcohol Clin Exp Res* **25**: 117A.
201. Johnson, T. E. and Bennett. B., 2001 Phenotypic confirmation of QTLs for ethanol sleep time and blood ethanol concentration using congenic and congenic recombinant strains of mice. *Alcohol Clin Exp Res* **25**: 117A.
202. Owens J. C. and Johnson, T. E., 2001 A classical genetic analysis of low dose ethanol-induced activation in the inbred long sleep (ILS) and inbred short sleep (ISS) mice. *Alcohol Clin Exp Res* **25**: 116A.
203. Proctor, W. R., Bennett, B., Johnson, T. E., and Dunwiddie, T. V., 2001 The ethanol sensitivity of evoked GABA_a responses in hippocampal neurons from congenic lines of mice. *Alcohol Clin Exp Res* **25**: 11A.
204. Eisenman, L. M., Donovan, H. S., and Johnson, T. E., 2001 Effect of alcohol on *c-fos* expression in hypothalamus of LS and SS mice. Abstracts of the 2001 Neuroscience Meetings.
205. Lund, J., Tedesco. P., Duke, K., Kim, S. K., and Johnson, T. E., 2001 Global profile of gene expression during aging. Abstracts of the 13th International C. elegans Meeting, #241.
206. de Castro, E., de Castro, S. H., and Johnson., T. E., 2001 Identification of genes involved in oxidative stress response and aging in *Caenorhabditis elegans*. Abstracts of the 13th International C. elegans Meeting, #856.
207. Owens, J. C., Bennett, B., and Johnson, T. E., 2001 Differential responses to

- ethanol-induced activity and ethanol-induced hypothermia in the ILS.ISS.*Lore* congenics. Abstracts of the 2001 Society for Neuroscience Meetings.
208. Cypser, J. R. and Johnson, T. E., 2002 Using *C. elegans* to model induced stress resistance and life span hormesis. Non-linear dose-response relationships in biology, toxicology and medicine.
 209. Bennett, B., Johnson, T. E., and Williams, R. W., 2002 A new panel of recombinant inbred strains from ILS and ISS. *Alcohol Clin Exp Res* **26**: 99A.
 210. Bennett, B., and Johnson, T. E., 2002 Genetic dissection of QTLs for ethanol sleep time using interval specific congenic recombinant lines of mice. *Alcohol Clin Exp Res* **26**: 99A.
 211. Haughey, H. M., Kaiser, A. J., Hall, J. T., Johnson, T. E., Bennett, B., Sikela, J. M., and Zahniser, N. R., 2002 Norepinephrine transporter expression influences initial ethanol sensitivity in inbred short-sleep and long-sleep mice. *Alcohol Clin Exp Res* **26**:104A.
 212. Kaiser, A.L., Yang, Y., Burger, S., Bennett, B., Beeson, M., Gordon, L., Johnson, T.E., and Sikela, J.M., 2002 High throughput sequencing of the *Lore5* initial sensitivity to alcohol QTL in ILS and ISS mice. *Alcohol Clin Exp Res* **26**: 55A.
 213. Haughey, H. M., Kaiser, A. J., Hall, J. T., Johnson, T. E., Bennett, B., Sikela, J., and Zahniser, N. R., 2002 The norepinephrine transporter influences initial ethanol sensitivity in Inbred short-sleep and long-sleep mice. Abstracts of the 2002 Society for Neurosciences Meetings, 104A.
 214. Bennett, B., Johnson, T. E., and Williams, R. W., 2002 A new panel of recombinant inbred strains from ILS and ISS. Complex Trait Consortium Abstracts, Memphis TN, May, 2002.
 215. Bennett, B. and Johnson, T.E., 2003 A new panel of recombinant inbred strains from ILS and ISS. *Alcohol Clin Exp Res* **27**: 49A.
 216. Kaiser, A., MacLaren, E., Marshall, K., Walter, N., Bennett, B., Johnson T.E., and Sikela, J.M., 2003 Identification of an altered coding region between ILS and ISS mice for *Brp17*, a candidate gene for the *Lore1* QTL. *Alcohol Clin Exp Res* **27**: 48A.
 217. Downing, C., Hall, J., Springett, J., and Johnson, T. E., 2003 Effects of the metabotropic glutamate receptor subtype 5 on the sedative-hypnotic properties of ethanol. *Alcohol Clin Exp Res* **27**: 84A.
 218. Kearns R, Downing, C., Bowman, M., Bennett, B., Johnson T. & Miles M.F., 2004 Identification of ethanol QTL candidate genes by expression profiling in ISS/ILS congenic mice. *Alcohol Clin Exp Res* **28**: 8A.
 219. Bennett, B., Williams, R.W., Lu, L., Gu, J., Carosone-Link, P., Rikke, B., and Johnson T.E., 2004 Genetic mapping for ethanol-related behaviors in the LXS panel of recombinant inbred strains from ILS and ISS. *Alcohol Clin Exp Res* **28**: 87A.
 220. Parker, C., Carosone-Link, P., Johnson, T.E., and Bennett B., 2004 Ethanol-mediated anxiety reduction in Inbred Long-Sleep and Inbred Short-Sleep mice on the elevated zero maze: a pilot study. *Alcohol Clin Exp Res* **28**: 90A.
 221. Bennett, B., Downing, C., Haughey, H., Zahniser, N., Miles, M., and Johnson, T. E., 2004 Multistage genetic mapping for ethanol sensitivity: from mapmaker to candidate genes. *Alcohol Clin Exp Res* **28**: 63A.
 222. Johnson, T., Arum, O., Henderson, S., Kahn, N., Rea, S., Tedesco, P., and Wu, D., 2004 Metabolism and stress resistance in age mutants of *C. elegans*. Abstracts of the American Aging Association, p. 8.
 223. Rikke, B. and Johnson, T.E., 2004 Genetic dissection of dietary restriction. Abstracts of the American Aging Association, p. 78.
 224. Bennett, B., Carosone-Link, P., Rikke, B., and Johnson, T.E., 2004 Genetic mapping for ethanol-related behaviors in the LXS panel of recombinant inbred strains

- from ILS and ISS. Complex Trait Consortium Abstracts, Bar Harbor, Maine.
225. Miles, M.F., Kerns, R., Downing, C., and Johnson, T. E., 2005 Congenic lines, expression profiling and bioinformatic approaches define candidate genes for *lore* QTLs in ILS/ISS mice. *Alcohol Clin Exp Res* **29**: 197A.
 226. Kerns, R., Downing, C., Bowman, M. Johnson, T., and Miles, M.F., 2005 Identification of ethanol QTL candidate genes by expression profiling in ISS/ILS congenic mice. *Alcohol Clin Exp Res* **29**: 90A.
 227. Parker, C., Henderson, H., Carosone-Link, P., Holmes, A., Spencer, R., Bennett, B., and Johnson, T. E., 2005 The effects of acute and chronic restraint stress on sensitivity to ethanol-induced loss of righting reflex in inbred long-sleep, inbred short-sleep, and F1 mice. *Alcohol Clin Exp Res* **29**: 8A.
 228. Downing, D. and Johnson, T.E., 2005 The metabotropic glutamate receptor subtype 5 (*mGluR5*) mediates sensitivity to ethanol-induced sedation. *Alcohol Clin Exp Res* **29**: 8A.
 229. Rea, S. L., Kahn, N. Link, C., and Johnson, T. E., 2005 SKN-1 Anti-oxidant Activity and Mit Mutant Longevity. Abstracts of the 15th International *C. elegans* Meeting, p. 128.
 230. Johnson, T.E., Rea, S., Wu, D., and Cypser, J., 2005 Stochastic effects make a big difference in how long you will live (if you are a worm). Abstracts of the 15th International *C. elegans* Meeting, p. 186.
 231. Johnson, T. E., de Grey, A. D. N. J., Fuber, J. D., and Thoman, M., Progress toward postponement of mammalian aging. *The Gerontologist*, page number not available.
 232. Downing, C., Bennett, B., Carosone-Link, P., and Johnson, T.E., 2006 QTL Mapping for the psychomotor stimulant effect of alcohol in LXS recombinant inbred mice. *Alcohol Clin Exp Res* **30**: 121A.
 233. Downing, C., Gaudreau, C., Gilliam, D., and Johnson, T.E., 2006 Effects of prenatal alcohol exposure on activity in mice from four inbred strains. *Alcohol Clin Exp Res* **30**: 232A.
 234. Bennet, B., Carosone-Link, P., and Johnson, T.T., 2006 Confirmation and fine mapping of QTLs for ethanol sensitivity using the LSX RI strains. *Alcohol Clin Exp Res* **30**: 121A.
 235. Miles, M.F., Vorster, P., Downing, C., Bennett, B., and Johnson, T.E., 2006 Identification of ethanol-responsive gene networks by expression profiling across LXS Recombinant Inbred Lines. *Alcohol Clin Exp Res* **30**: 177A.
 236. Parker, C.C., Ponicsan, H., Spencer, R., Holmes, A., and Johnson, T.E., 2006 genetic differences in the effects of acute and chronic forced swim stress on sensitivity to ethanol-induced loss of righting reflex in inbred mice. *Alcohol Clin Exp Res* **30**: 123A.
 237. Gaudreau, C., Gilliam, D.M., Johnson, T.E., and Downing, C., 2007 Ethanol teratogenesis in inbred long-sleep, inbred short-sleep and C57BL/6J mice. *Alcohol Clin Exp Res* **31**: 104A.
 238. Bennett, B., Carosone-Link, P., and Johnson, T.E., 2007 Mining SNP databases to narrow QTL intervals and identify candidate genes. *Alcohol Clin Exp Res* **31**: 134A.
 239. Downing, C., Miles, M.F., Bennett, B., Sikela, J., Hopkins, J., and Johnson, T.E., 2007 Hypocretin effects on loss of righting due to ethanol (LORE). *Alcohol Clin Exp Res* **31**: 191A.
 240. Downing, C., Carosone-Link, P., Gaudreau, C., Kimball, A., Broncucia, H., Biers, J., Johnson, T.E., and Gilliam, D.M., 2008 Quantitative trait locus mapping for ethanol teratogenesis in BXD recombination inbred mice. *Alcohol Clin Exp Res* **32**:

- 11A.
241. Downing, C., Gaudreau, C., Kimball, A., Broncucia, H., Biers, J., Johnson, T.E., and Gilliam, D.M., 2008 Ethanol and valproic acid teratogenesis in C57BL/6J and DBA/2J mice: A common epigenetic mechanism?. *Alcohol Clin Exp Res* **32**: 48A.
 242. Parker, C.C., Meade, L.M., Larson, C., Carosone-Link, P., Bennett, B., and Johnson, T.E., 2008 Genetic analysis of basal and stress-induced corticosterone levels in the LXS RI panel. *Alcohol Clin Exp Res* **32**: 13A.
 243. Bennett, B., Carosone-Link, P., and Johnson, T.E., 2008 LXS RI maps QTLs for voluntary consumption using a novel paradigm ("Drinking in the dark"). *Alcohol Clin Exp Res* **32**: 11A.
 244. Ishii, T., Hartman, P.S., Johnson, T.E., and Ishii, N., 2008 Mitochondrial superoxide anion (O_2^-) overproduction causes growth retardation and infertility in SDHC V69E *Tet-mev-1* mice. *AGE*, Annual Meeting of the American Aging Assoc., pg. 56.
 245. Park, S-K., Tedesco, P.M., and Johnson, T.E., 2008 Response to oxidative stress as mediated by SKN-1 in *Caenorhabditis elegans*. *AGE*, Annual Meeting of the American Aging Assoc., pg. 63.
 246. Wu, D., Rea, S. L., Cypser, J. R., and Johnson T.E., 2008 Mortality in *Caenorhabditis elegans*: Remembrance of conditions past. *AGE*, Annual Meeting of the American Aging Assoc., pg. 35.
 247. Wu, D., Cypser, J. R., Yashin, A., and Johnson, T.E. 2008 U-shaped response of initial *C. elegans* mortality to mild heat shock. *AGE*, Annual Meeting of the American Aging Assoc., pg. 67.
 248. Rikke, B.A., Liao, C-Y., Nelson, J., and Johnson, T.E., 2008 Murine quantitative trait loci affecting metabolic efficiency in response to dietary restriction. *AGE*, Annual Meeting of the American Aging Assoc., pg. 64.
 249. Cypser, J.R., Tedesco, P., Wu, D., Park, S.-K., and Johnson, T.E. 2008 Secondary phenotypes associated with GFP reporters that predict increased survival in *C. elegans*. *AGE*, Annual Meeting of the American Aging Assoc., pg. 49.
 250. Han, E.-S., Fu, C., Hickey, M., Doyle, E., Cullen, M., Rikke, B., Johnson, T., and Nelson, J. 2008 Altered gene expression of alcohol tolerant long-lived mice in response to oxidative stress. *The Gerontologist*.
 251. Mendenhall, A., Seewald, A.K., Cypser, J.R., Tedesco, P.M., and Johnson, T.E., 2009 Regulation of gene expression: where did that noise come from? Worm Meeting.
 252. Cypser, J.R., Mendenhall, A.R., Seewald, A. L., Tedesco, P. M., Johnson, T. E., 2009 Response to stress: epigenetic and stochastic aspects. International Association Biomedical Gerontology: Quebec City.
 253. Rikke, B.A., Liao, C.Y., McQueen, M., Nelson, J.F., Johnson, T.E., 2009 Genetic variation in the murine lifespan response to dietary restriction. American Aging Association: Scottsdale, AZ.
 254. Park, S.-K., Link, C., Johnson, T.E., 2009 Novel pathways mediating dietary-restriction-induced longevity in *C. elegans*: NLP-7 signaling and endocytosis by coelomocytes. 17th International *C. elegans* Meeting: Los Angeles, CA.
 255. Mendenhall, A.R., Seewald, A.K., Cypser, J.R., Tedesco, P.M., Johnson, T.E., 2009 Regulation of gene expression: Where did that noise come from? 17th International *C. elegans* Meeting: Los Angeles, CA.
 256. Johnson, T.E., 2010 The discovery of longevity mutants. A lecture delivered as the recipient of the Denham Harman Award from the American Aging Associations' 39th Annual Meeting: Portland, OR.

257. Johnson, T.E., Mendenhall, A.R., Cypser, J.R., Seewald, A.K., Tedesco, P.M., Alexanderson, O., Taylor, L., Link, C., 2010 Stochastic processes of aging. American Aging Associations' 39th Annual Meeting: Portland, OR.
 258. Mendenhall, A., Tedesco, P., Brent, R., Johnson, T.E., 2010 Causes and consequences of stochastic variation in *C. elegans*' gene expression. *C. elegans* meeting on stress and aging: Madison, WN.
 259. Johnson, T.E., Mendenhall, A.R., Cypser, J.R., Seewald, A.K., Tedesco, P.M., Taylor, L., Link, C., 2010 Senescence and aging: program or stochastic? Keynote address at British Society for Research on Aging: Newcastle, England.
 260. Johnson, T.E., Mendenhall, A.R., Cypser, J.R., Seewald, A.K., Tedesco, P.M., Taylor, L., Link, C. 2010 Stochastic processes lead to heterogeneity in aging. Discerning Diversity in Ageing, St. Andrews, Scotland.
 261. Florez-McClure, M.L., Flink, S., Downing, C., Rikke, B.A., Johnson, T.E., Kechris, K. 2011 Gene expression changes in a fetal alcohol exposure model: exploring susceptibility mediated by strain differences and maternal effects. 2011 RSA Meeting, Atlanta, GA.
 262. Downing, C., Balderrama-Durbin, C. C., Kimball, A., Biers, J., Gilliam, D.M., Johnson, T.E., 2011 Quantitative trait locus mapping and candidate gene identification for ethanol teratogenesis in BXD recombinant inbred mice. RSA Meeting, Atlanta, GA.
 263. Mendenhall, A. R., Tedesco, P. M., Cypser, J. R., Taylor, L., Lowe, A., Brent, R., and Johnson, T. E., 2011 Factors affecting the mean, variance and predictive power of a lifespan biomarker, 18th International *C. elegans* Meeting: Los Angeles, CA.
 264. Johnson, T. E., 2011 Genetic studies on caloric restriction in the worm and in the mouse: what does it tell us? Prevention and Intervention, from Molecular Biology to Clinical Perspectives, Sept. 2011, Halle, Germany:
 265. Mendenhall, A. R., Wu, D., Park, S.-K., Cypser, J. R., Tedesco, P. M., Link, C. D., Phillips, P. C., and Johnson, T. E., 2011 Genetic Uncoupling of somatic and germline lifespan in the nematode *Caenorhabditis elegans*. NAPA Valley Meeting on Aging in the Wild.
 266. Chick, W. S., Zhou, X., Williams, K., Ye, M., and Johnson, T. E., 2011 Identification of mammalian genes promoting multi-disease resistance. Annual Butcher Symposium, Univ. of Colo.
- (Some abstracts are missing from the file and have not been routinely recorded from this point on.)
267. Johnson, T. E., Chick, W. S., Cypser, J., Fahy, G., Kitzenberg, D.A., Ludwig, M., Newell, B., and Tedesco, P., 2014 Making connections: from stress resistance to a longer health span. Annual Meeting of the Gerontological Society of America, Washington D.C.
 268. Johnson T. E., Chick W. E., and Fahy, G. M., 2015 Eliminating toxicity during long-term cryogenic storage of human organs. Meeting of the Organ Preservation Alliance, Feb. 27, 2015 Palo Alto. CA
 269. Mendenhall, A., Sands, B., Tedesco, P., Johnson, T. E., Brent, R 2015 Mechanisms of animal-to-animal and cell-to-cell variation in gene expression in adult hermaphrodites. 2015 worm meeting

270. Mendenhall, A., Sands, B., Tedesco, P., Johnson, T. E., Brent, R., 2015 Reproducible quantification of gene expression in single cells of live adult animals 2015 worm meeting
271. Mendenhall, A., Sands, B. and Brent, R., 2015 Effects of introns on gene expression. 2015 worm meeting
272. Newell, B., Lifespan and healthspan in *C. elegans*, a long life does not always mean a good life. IBG Symposium May 15, 2015
273. Newell, B., Cypser, J. R., Tedesco, P., Ludwig, M., Chick, W., and Johnson, T. E. 2015 Frailty and health span in *C. elegans* and mice. Fort Collins
274. Thomas E Johnson, James R. Cypser, Shane L. Rea, Alexander R. Mendenhall 2015 Molecular Dissection of Hormesis; International Dose Response Society Conference, University of Massachusetts at Amherst. April 19 and 20, 2016 "Hormesis, Aging and Enhancing Longevity",

INVITED PRESENTATIONS at NATIONAL or INTERNATIONAL SYMPOSIA:

KEYNOTE ADDRESSES:

- Genetics and Genomics of Inflammatory Barrier Diseases, July 12, 2007, Kiel, Germany: "The Nematode, *Caenorhabditis elegans*: An Anti-Aging Model for Humans?"
- Biomarkers in Ageing, September 18-20, 2009, Halle, Germany: "Life Span as a Biomarker of Aging: What Does It Tell Us?"
- American Aging Association, 39th Annual Meeting, June 4-7, 2010, Portland, OR: "The Discovery of Longevity Mutants."
- BSRA 60th Annual Conference, July 14-16, 2010, Newcastle, UK: "Senescence and Aging: Program or Stochastic?"
- 25th Anniversary of the India National Institute of Immunology: Aging and Age-Related Diseases, March 3-4, 2011, New Delhi, India: "Genetic and Stochastic Analysis of Aging and Age-Related Disease in Animal Models."
- Prevention and Intervention, from Molecular Biology to Clinical Perspectives, September 16 - 18, 2011, Halle, Germany: "Laudation of Dr. Kaisu Pitkälä, Helsinki Finland."
- Neurobiology and Neuroendocrinology of Aging, July 29 - August 3, 2012, the Kloster Mehrerau, Bregenz, Austria: Twenty-Five Years after age-1: Drugs, Interventions, and the Scientific Aristocracy.
- German Association for Aging Research (DGfA), Dusseldorf, Germany, December 6, 7, 2013: Keynote address: German Society for Aging Research.
- International Dose Response Society Conference, University of Massachusetts at Amherst. April 19 and 20, 2016 "Hormesis, Aging and Enhancing Longevity",

Symposia Related to QTL-Mapping of Alcoholism and Related Traits

- 1990 Conference on Genetics and Brain Involvement in Dyslexia, sponsored by the Academia Rodinensis Pro Remediatione; September 18-21, 1990, Boulder CO. Overview and Discussion: Toward the Molecular Genetic Basis of Dyslexia: Problems and Progress."
- Gordon Conference, Perspectives on Alcoholism, February 5-9, 1990, Oxnard, CA: "Genetic Models of Alcoholism: Molecular Biological Approaches."
- Annual Meeting of the Behavioral Genetics Association, June 6-8, 1991, St. Louis, MO: "Mapping Sensitivity to Ethanol Using the LSXSS RI Strains of Mice."
- Research Symposium on Alcoholism, June 8-13, 1991, Fort Myers, FL: "RFLP-Mapping Using the LSXSS RI Strains of Mice."
- Research Symposium on Alcoholism, June 20-23, 1993, San Antonio, TX: "Alcoholism in Flies and Worms: Genetic Insights from Invertebrate Systems."
- 1993 World Congress on Psychiatric Genetics, October 2-5, 1993, New Orleans, LA: "Mapping of QTL, Regulating Ethanol-Induced Anesthesia." (Talk delivered by Paul Markel, a graduate student.)
- International Society for Biomedical Research on Alcoholism, June 26-July 1, 1994, Brisbane, Australia: "Mapping QTLs for Ethanol-Induced Anesthesia in LSXSS Recombinant Inbred and F2 Mice."
- Workshop on Mouse Molecular Neurogenetics, September 21-23, 1994, Bar Harbor, ME: "Identification of QTLs Influencing Ethanol-Induced Anesthesia in LS and SS Mice."
- Mouse Genome Conference, November 6-10, 1994, London, UK: "Mapping QTLs for Anesthesia Sensitivity."
- University of Colorado Health Sciences Center, August 28, 1995, Denver, CO: "Mapping QTLs for Alcohol-Related Traits in the LS and SS Selected Lines."
- NAASO-SSIB Annual Conference, National Institute on Alcohol Abuse and Alcoholism, October 12-17, 1995, Baton Rouge, LA: "From Character to Clone: Mapping the Mouse Genes Responsible for Sensitivity to Ethanol."
- 1996 Gordon Research Conference on Alcohol, January 7-12, 1996, Oxnard, CA: "Identifying, Confirming, and Cloning Genes Specifying Sensitivity to Ethanol in LS and SS Mice."
- The Fifth International Conference on Molecular and Cellular Mechanisms of Anaesthesia, June 18-20, 1997, Calgary, Alberta. Presentation delivered by Dr. Victoria Simpson, a major collaborator.
- Veteran's Administration Workshop on QTLs and Alcohol Action, September 18-20, 1997, Cannon Beach, OR: "Whither QTLs, After the Mapping."
- Member, Extramural Scientific Advisory Board, Advisory on Genetics Portfolio, National Institute on Alcohol Abuse and Alcoholism, Nov. 4, 5, 1997, Washington DC: "Quantitative Trait Loci for Alcohol-Related Behaviors in Non-Human Mammals."
- National Institute on Alcohol Abuse and Alcoholism Workshop on QTL Mapping; August 20-21, 1998, Bethesda, MD: "Sedation."

2000 Keystone Symposium on the Genetics of Alcoholism and Substance Abuse, Jan. 23-28, 2000, Tahoe City, CA.: "Uncovering genes for neurosensitivity to ethanol and general anesthetics."

National Institute on Alcohol Abuse and Alcoholism Workshop on QTL Endgame: Strategies for Identifying Genes Influencing Alcohol-Related Behavior; Nov. 30 – Dec. 1, 2000, Rockville, MD: "QTL ID to gene ID for alcohol's hypnotic action."

Keystone Symposia on Natural Variation and Quantitative Genetics in Model Organisms, Jan. 8 – 13, 2004, Breckenridge, CO: "QTLs in mice and worms; use of recombinant inbred strains."

38th Winter Conference on Brain Research, Jan. 22 – 28, 2005, Breckenridge, CO: "Novel quantitative trait genes (QTGs) for the sedative-hypnotic drug dependence, withdrawal, and sensitivity."

International Society for Anaesthetic Pharmacology (ISAP), Theme: Genetics and Anesthesia, Oct. 14, 2011, Chicago, IL: "The Future of Genetics and Genomics. (Talk delivered by Philip Morgan)

Symposia Related to Cryoprotection

Meeting of the Organ Preservation Alliance, Feb. 25-27, Stanford CA: "Forward genetic approaches to identify drugable pathways leading to cryo-protection"

Symposia Related to Aging

Behavior Genetics Association, July, 1982, Fort Collins, CO: "Genetic Analysis of Life Span in the Nematode, *Caenorhabditis elegans*." Participant in roundtable discussion on the future of behavioral genetic research.

Fund for Integrated Biomedical Research (FIBER) Symposium, November, 1982, Boston, MA: "*Caenorhabditis elegans*: A Genetic Model for Understanding the Aging Process."

35th Annual Scientific Meeting of The Gerontological Society of America, November, 1982, Boston, MA: "Genetic Models of Aging, Genetic Analysis of Long-lived Strains of *Caenorhabditis elegans*."

Meeting on *C. elegans*, May, 1983, Cold Spring Harbor, NY: "Genetics of Long-Lived Variants of *C. elegans*."

37th Annual Meeting of the Gerontological Society of America, November, 1984, San Antonio, TX: "Aging in Invertebrates: *Caenorhabditis elegans*."

Symposium on Multivariate Behavioral Genetics and Development: Change and Continuity, May, 1985, Boulder, CO: "Molecular and Developmental Genetic Analyses of Multivariate Behavioral Systems."

13th International Congress of Gerontology, July, 1985, New York, NY:
1. "Animal Models for Aging: *Caenorhabditis elegans*."
2. "Genetics and Aging: Some New Directions for Research: Selective Breeding and Mutant Gene Approaches to the Study of Senescence."

Meeting on *C. elegans*, May, 1985, Cold Spring Harbor, NY: "Life Spans of Induced Mutants."

- Workshop on Environmental Toxicity and the Aging Process, October 1-2, 1985, Columbia MD: "*Caenorhabditis elegans* as a Model Organism for Use in Assessment of Toxicity Effects on Aging."
- Modern Biological Theories of Aging, June 3-6, 1986, New York, NY: "Developmentally Programmed Aging, Future Directions."
- Gordon Conference on the Biology of Aging, July 21-25, 1986, Plymouth, NH: "Analysis of Genes Specifying Length of Life."
- Brookhaven Symposium in Biology, Number 34, Aging Processes in Animals, October 19-23, 1986, Brookhaven National Laboratory, Upton, NY: "Mutant Genes that Extend Life Span."
- West Coast Genetics Conference, January 30-February 1, 1987, Lake Arrowhead, CA: "Life Span Mutants."
- Meeting of the American Geriatrics Society, May 14, 1987, New Orleans, LA: "Studies in Molecular Genetics."
- Gordon Conference on the Biology of Aging, February 14-20, 1988, Ventura, CA: "Genetic Inferences from Strains of the Nematode *C. elegans* with Lengthened Life Span."
- International Symposium on the Biology of Aging, March 16-18, 1988, Kyoto, Japan: "A Mutation in a Single Gene Produces a 70% Increase in the Life Span of the Round Worm *Caenorhabditis elegans*."
- Biomedical Advances in Aging '88, VIIIth International Washington Spring Symposium, May 9-13, 1988, Washington DC: "A Developmental Genetic Approach to the Analysis of Aging Processes."
- Annual Meeting of the Tissue Culture Association, June 15-19, 1988, Las Vegas, NV: "Genetics of Aging in *Caenorhabditis elegans*."
- Second International Conference on Genetic Effects on Aging September 18-23, 1988, Bar Harbor, ME: "Genetic Variants and Mutations of *Caenorhabditis elegans* Provide Handles for Dissecting the Aging Processes."
- American Aging Association, October 5-8, 1988, San Francisco, CA: "Genetic Analyses of Longevity and Senescence."
- 41st Annual Meeting of the Gerontological Society of America, November 19 - 22, 1988, San Francisco, CA: "Complexity Determining Aging and Longevity."
- 41st Annual Meeting of the Gerontological Society of America, November 19 - 22 1988, San Francisco, CA: "Mutant Genes that Extend the Life Span." Sponsored by the American Federation for Aging Research.
- UCLA Symposium on the Molecular Biology of Aging, March 4-10, 1989, Santa Fe, NM: "Cloning Genes for Life-extension in *C. elegans*."
- Frontiers in Aging Research, March 11-12, 1989, Santa Fe, NM: "Models for Aging Research: Invertebrates."
- Third International Congress of Biomedical Gerontology, June 16-18, 1989, Acapulco, Mexico: "Molecular Genetic Analysis of Processes Limiting Life."
- International Congress of Gerontology, June 19-23, 1989, Acapulco, Mexico: "Genetics of Life Span in *Caenorhabditis elegans*."

- Workshop: "Identification, Isolation, and Characterization of Aging and Longevity Genes: Strategies and Technologies," October 5, 1989, Nerja, Spain.
- Workshop: "Identification of Genes Specifying length of Life in the Nematode, *Caenorhabditis elegans*," EURAGE, October 6-8, 1989, Nerja, Spain.
- American Aging Association, October 4-7, 1989, Washington DC: "Genetic and molecular analysis of a longevity gene in *C. elegans*." (Talk presented by Dr. T. Hutchinson, a postdoctoral associate.)
- Correlations of Aging and Space: Effects on Biosystems, October 30-November 2, 1989, Washington DC: "Cellular Effects."
- 42nd Annual Meeting of the Gerontological Society of America, November 17-21, 1989, St. Paul, MN: "Genetic Analysis of Life Span: Whence and Where."
- Workshop on New Animal Models for Aging Research, December 5-6, 1989, Bethesda, MD: "Nematodes as Models of Aging." (Talk presented by Dr. T. Hutchinson, a postdoctoral associate.)
- Annual Meeting of the American Association for the Advancement of Science, February 15-20, 1990, New Orleans, LA: "Aging Genes in Worms."
- International Congress for Systematic and Evolutionary Biology, July 1-7, 1990, College Park, MD: "Antagonistic Pleiotropy in the Evolution of Nematode Aging? A Genetic Analysis."
- Third Serling Symposium on the Biology of Aging, September 10-14, 1990, Judea, Israel: "Cloning a gene specifying life-span extension." (Talk delivered by Dr. E. W. Hutchinson, a research associate.)
- 43rd Annual Meeting of the Gerontological Society of America, November 16-20, 1990, Boston, MA: "Molecular and classical genetic analysis of life span in *Caenorhabditis elegans*."
- Congressional Workshop on Aging, January 24-26, 1991, Banbury Center, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY: "Identification of genes affecting life span in model systems."
- The Molecular Biology of Aging Processes, April 22-26, 1991, Cold Spring Harbor Laboratory, NY: "Toward identification of genes specifying life span in *Caenorhabditis elegans*."
- 1991 Gordon Conference on the Biology of Aging, April 28-May 3, 1991, San Miniato, Italy: "Transgenic analysis of age-related genes in *Caenorhabditis elegans*."
- Gordon Research Conference, August 16-21, 1991, New Hampton, NH: "Genes that regulate senescence and programmed cell death."
- Workshop on Control of Cell Proliferation in Senescent Cells, October 3-5, 1991, Montreal, Canada: "Mapping cell-senescence genes using the well-developed physical map of *Caenorhabditis elegans*"; and "*Caenorhabditis elegans* as a model system for the study of aging."
- American Aging Association, October 9-11, 1991, Denver, CO: "Molecular genetic approaches to the analysis of aging in *Caenorhabditis elegans*." (Talk presented by Mr. T. Fabian, a graduate student)

- Fourth Asia/Oceania Regional Congress of Gerontology, October 31-November 3, 1991, Yokohama, Japan: "Identifying and cloning genes that limit life of *C. elegans*."
- Molecular Biology of Aging, December 13-14, 1991, Heidelberg, Germany: "Molecular and genetic dissection of nematode aging." (Talk presented by Ms. Anne Brooks, a graduate student.)
- Annual Meeting of the American Association for the Advancement of Science, February 6-11, 1992, Chicago, IL: "Identification and cloning of gerontogenes in *Caenorhabditis elegans*."
- Molecular Biology of Aging Processes, April 22-26, 1992, Cold Spring Harbor Laboratory, NY: "Genetic approaches to the dissection of the aging processes of *Caenorhabditis elegans*."
- Fourth Serling Symposium on the Biology of Aging, September 14-17, 1992, Jerusalem, Israel: "Genetic dissection of aging processes in *C. elegans*."
- 45th Annual Meeting of the Gerontological Society of America, November 18-21, 1992, Washington DC: "Comparing aging and development: What's different and what's not."
- 45th Annual Meeting of the Gerontological Society of America, November 18-21, 1992, Washington DC: "Transgenic analysis of life span in *Caenorhabditis elegans*."
- Symposium on the Cellular and Molecular Aspects of Aging, October 22, 1993, Los Angeles, CA: "Molecular Genetics of Aging in *C. elegans*." (Talk delivered by Dr. Gordon Lithgow, a postdoctorate.)
- 46th Annual Meeting of the Gerontological Society of America, November 19-23, 1993, New Orleans, LA: "Adding Life to Years: Reality, Implications, Societal and Ethical Considerations."
- 46th Annual Meeting of the Gerontological Society of America, November 19-23, 1993, New Orleans, LA: "What is the Role of Genetics in Longevity?"
- Interdisciplinary Approaches to Research on Aging, March 29-30, 1994, Chicago, IL: "Genetic Strategies for Identifying Key Processes Involved in Aging."
- Symposium on the Molecular Aspects of Aging, May 2-4, 1994, St. Louis, MO: "Genes Which Influence Life Span in Nematodes."
- Genetic Analysis of Life History, May 21, 1994, Eugene, OR: "Mapping QTLs Specifying Life History Traits Using the Nematode *Caenorhabditis elegans*."
- The State of Theory on Aging: A Cross-Discipline Interchange, November 19, 1994, Greensboro, NC: "Testing Biological of Aging: Fact versus Theory."
- American Society for Clinical Pharmacology and Therapeutics, March 16, 1995, San Diego, CA: "Identification of Gerontogenes."
- The Genetics of Death, April 11-12, 1995, Glasgow, Scotland: "Regulation of Life Span in *C. elegans*."
- Gordon Conference on the Biology of Aging, May 7-12, 1995, Barga, Italy: "Function of Gerontogenes in *C. elegans*."
- Kyoto Course on Animal Models for Aging Research, May 12-20, 1995, Kyoto, Japan: "Genetic Influences on Aging in Mammals and Invertebrates."

- Heredity, Central Nervous System, and Behavior, June 3-4, 1995, Richmond, VA: "Mapping Quantitative Trait Loci for Life Span and Fertility in *Caenorhabditis elegans*."
- The Nathan W. Shock Memorial Lecture, Gerontology Research Center, National Institute on Aging, June 15, 1995, Baltimore, MD: "Identification and Function of Gerontogenes in *C. elegans*."
- Biodemography of Aging Expert Meeting, October 27-28, 1995, Irvine, CA: "Theoretical Knowledge for Demography to be Gained from Quantitative Trait Loci."
- III European Congress of Gerontology, August 30-September 2, 1995, Amsterdam: "The Genetics of Longevity and the Stress-Response Genes in *Caenorhabditis elegans*." (Talk delivered by Dr. Gordon Lithgow, a former postdoctorate.)
- American Federation for Aging Research at the 48th Annual Meeting of the Gerontological Society of America, November 15-19, 1995, Los Angeles, CA: "Gerontogenes Specify Resistance to Environmental Stresses in the Nematode *Caenorhabditis elegans*."
- 48th Annual Meeting of the Gerontological Society of America, November 15-19, 1995, Los Angeles, CA: "Back to Hormesis: A Little Stress May be Good for You."
- 48th Annual Meeting of the Gerontological Society of America, November 15-19, 1995, Los Angeles, CA: "Tutorial on Models for the Study of Aging."
- National Academy of Sciences, Committee on Population's Workshop on the Biodemography of Aging, April 12-13, 1996, Washington, DC: "Approaches to Mapping Longevity Genes."
- UNESCO Sponsored International Conference on Human Ageing, "Adding Life to Years," June 17-20, 1996, Paris, France: "Role of Stress in the Life-Extension Mutants of *C. elegans*."
- French Academies of Sciences and of Moral and Political Sciences, June 21-22, 1996, Paris, France: "The Discovery of Gerontogenes."
- Featured Speaker, 1996 FASEB Meeting, August 17-22, Snowmass, CO: "Clonal Senescence and Differentiation"; "Longevity Genes in the Nematode."
- 49th Annual Meeting of the Gerontological Society of America, November 17-21, 1996, Washington, D. C.: "Changing Funding Structure and its Effects on Biological Science Research Directions in Gerontology."
- Fourth South-North Human Genome Conference, UNESCO, March 16-19, 1997, Guadalajara, Mexico: "Genetic determination of aging in *C. elegans*: the role of stress."
- American Association for Cancer Research 88th Annual Meeting, April 12-16, 1997, San Diego, CA: "Genetics of aging and dietary restriction: Possible convergence."
- Third European Research Workshop on Longevity, May 17-21, 1997, Ancona, Italy: "Genes determining longevity in model systems: Relevance to humans."
- NHMCC Bio/Technology Conferences: Molecular and Genetic Strategies for Treatment of Age-Related Diseases, July 14-15, 1997, Seattle, WA: "Identification of genes specifying signal transduction pathways leading to increased health and longevity in *Caenorhabditis elegans*."

- Second Annual Symposium on the Biology of Aging, November 6-8, 1997, Lexington, KY: "Increased resistance to stress as a 'public' mechanism for increased longevity."
- Bat-Sheva Seminar on Cellular, Molecular and Genetic Aspects of Aging and Longevity, December 7-12, 1997, Israel: "Longevity assuring genes in nematodes."
- Gordon Conference on the Biology of Aging, May 10-15, 1998, Barga, Italy: "Stress resistance, dietary restriction and hormesis: common actions in aging."
- NHMCC Bio/Technology Conferences: Frontiers in Aging research and Age-Related Diseases, Oct. 5-7, 1998, San Diego, CA: "Life extension as resistance to stress: toward a molecular description." (Meeting cancelled.)
- Hiroshima Cancer Seminar Foundation, November 2, 1998, Hiroshima, Japan: "Genes for Aging in Nematodes: Regulating Response to Environmental Stress."
- 51st Annual Meeting of the Gerontological Society of America, November 20-23, 1998, Philadelphia PA.: "Stress and gerontogenes: the intersection."
- Internet World Congress, Dec. 7-16, 1998, Cyberspace: "Genetic manipulation of longevity in *C. elegans* through increased response to stress."
- Keystone Symposium, Aging: Genetic & Environmental Influences on Life Span, February 2-7, 1999, Tamarron Hilton, Durango CO: "Genetic and environmental manipulation of longevity in *C. elegans*."
- 28th Annual Meeting of the American Aging Association, June 4, 1999, Seattle WA: "Genes, longevity and stress adaptation in *C. elegans*."
- 22nd Annual Meeting of the Japanese Society of Biomedical Gerontology, June 16-18, 1999, Kyoto, Japan: "Uncovering the secrets of aging using genetics in the nematode *C. elegans*."
- 1999 FASEB Meeting, July 5-9, Copper Mountain, CO: "Role of stress resistance in life extension: focus on the worm."
- Third International Research Colloquium on Social and Biological Determinants of Longevity, August 2-6, 1999, Max Planck Institute for Demographic Research, Rostock, Germany: "Physiological aspects of individual life expectancy in the nematode worm."
- Course on the Molecular Biology of Aging, August 11, 1999, Marine Biology Laboratory, Woods Hole, MA: "Increased resistance to environmental stressors and diseases of aging: common-ground among all gerontogenes."
- Colloquium on the Molecular Biology of Aging, August 13, 1999, Marine Biology Laboratory, Woods Hole, MA: "Resistance to stress: Worms to mammals."
- EMBO Workshop of Molecular and Cellular Gerontology, Sept 18-22, 1999, Olivone, Switzerland: "Life extension of *C. elegans* is specified by increased stress resistance." (lecture presented by Dr. Shin Murakami, a postdoctoral fellow.)
- Buck Center for Research in Aging, Inaugural Symposium, Sept. 30, 1999, Novato CA: "Life extension as resistance to environmental stress: toward a molecular description in *C. elegans*."
- 52nd Annual Meeting of the Gerontological Society of America, November 19-23, 1999, San Francisco, CA: "Gerontogenes through evolution: nematode, mouse, human."

- 52nd Annual Meeting of the Gerontological Society of America, November 19-23, 1999, San Francisco, CA: "From *daf-2* to the insulin receptor: does the dauer pathway truly mimic CR in mammals?"
- European Science Foundation meeting on the Biology of Ageing, May 6-10, 2000, Spa, Belgium: "Gerontogenes mediate health and longevity in nematodes through increasing resistance to environmental toxins and stressors."
- 29th Annual Meeting of the Association, June 2, 2000, Boston MA: "Changes in transcript prevalence with age in a nematode worm."
- Third International Conference on Genetic Effects on Aging, August 7, 2000, Bar Harbor, ME: "Analysis of longevity genes in *Caenorhabditis elegans* points to increased response to stress as key for increased longevity."
- Course on the Molecular Biology of Aging, August 14, 2000, Marine Biology Laboratory, Woods Hole, MA: "Increased resistance to environmental stressors and diseases of aging: common-ground among all gerontogenes."
- Australian Society of Cellular and Molecular Gerontology, March 27, 2001, Melbourne, Australia: "Increased resistance to environmental stressors and diseases of aging: common-ground among all gerontogenes."
- Gordon Conference on the Biology of Aging, July 22 – 26, 2001, Oxford, UK: "Microarray analysis of normal aging in *Caenorhabditis elegans*."
- Society for the Study of Inborn Errors of Metabolism, Sept 4-7, 2001, Prague, Czech Republic: "Longevity genes in the nematode *C. elegans* also increase resistance to stress and prevent disease."
- Comparative Biology of Aging Workshop, Feb. 6, 7, 2002, Washington DC: "The Insulin/IGF-1 pathway in *C. elegans*: conservation of signaling cassette; apparent divergence of signal outcome."
- Second Euresco Conference on Biological Ageing, May 18-22, 2002, Spetses, Greece: "The aging program: an organismic response to living?"
- Third Longevity Consortium Meeting, July 14 – 16, 2002, Annapolis MD: "The 'aging program' is an organismic response to life."
- Frontiers of Aging Research, George Martin Symposium, Sept. 17-18, 2002: "Aging in *C. elegans*." (Talk cancelled due to accident to my daughter, which prevented my attendance.)
- Neuroendocrine Systems and Lifespan Determination, Buck Institute Symposium on Aging. Sept 24-27, 2002: "Genetics of Aging." (Talk cancelled due to accident to my daughter, which prevented my attendance.)
- 55th Annual Meeting of the Gerontological Society of America, November 22-25, 2002, Boston, MA: "*C. elegans*, the promise and the reality."
- 56th Annual Meeting of the Gerontological Society of America, at the Public Policy Committee Symposium: "The Genie's Out of the Bottle: Moral, Ethical, and Societal Implications of the Search for the Fountain of Youth," November 22, 2003, San Diego CA: "Advances in genetics research promote development of a drug for life extension."

- Robert W. Kleemeier Award Lecture, 56th Annual Meeting of the Gerontological Society of America, November 22, 2003, San Diego, CA: "Genes, phenes, and dreams of immortality."
- 56th Annual Meeting of the Gerontological Society of America, At the Presentation of the Longevity Prize of the Foundation IPSEN to J. Vaupel, November 22, 2003, San Diego CA: "Genetics of Longevity."
- Biodemography of Survival and Longevity, Duke University, March 11-13, 2004, Raleigh NC: "Revealing hidden heterogeneity underlying mortality deceleration."
- Functional Genomics Conference of Ageing, April 28 - May 1, 2004, Crete, Greece: "The *age-1* pathway specifies response to hard times."
- 33rd Annual Meeting of the American Aging Association, June 4-7, 2004, Tampa FL: "Metabolism and stress resistance in age mutants of *C. elegans*."
- University of Nebraska – Lincoln's Redox Biology Center, Oct. 1, 2004, Lincoln, NE: "Resistance to reactive oxidants in longevity mutants of *C. elegans*."
- International Meeting on *C. elegans*, June 25 – 29, 2005, Los Angeles, CA: "Stochastic Effects Make a Big Difference in How Long You Will Live (If You Are a Worm)."
- Conference on Genetics of Healthy Aging (GEHA), July 6 – 9, 2005, Bologna, Italy: "Genes, Environment and Chance Determine Longevity."
- Nutrient Control of Gene Expression and Cell Signaling, August 3 - August 4, 2005, Tucson AZ: "Nutrient Specification of Longevity in *C. elegans*."
- Buck Institute 2005 Symposium, Pharmacology of Lifespan Extension, October 6-8, Novato, CA: "Genes, environment and especially chance determine longevity."
- 2nd Symposium on The Role of Mitochondria in Conserved Mechanisms of Aging, April 6, 2006, Frankfurt, Germany: "Genes, Environment and Chance – All Play a Role in Determining Life Span; How Much?"
- 11th Annual Genetics & Ethics in the 21st Century Conference, July 21 – 23, 2006, Aspen, CO: "Life Span Extension or Immortality: The Reality and the Hype."
- International Association of Gerontology, 5th European Congress of Biogerontology, September 16 - 20, 2006, Istanbul, Turkey: "Conservation of gene function?" contrasting the IGF-1 and mitochondrial longevity genes of *C. elegans*.
- Austrian Biochemical Society, September 25 – 27, 2006, Salzburg, Austria: "The Roles of Genes, Environment and Chance in Determining Life Span."
- Evolutionary Demography Workshop, October 23 – 25, 2006, Durham, NC: "Environmental and stochastic determinants of longevity explain most of the variation in nematode life-span."
- 3rd International Friedreich's Ataxia Scientific Conference, November 10 – 12, 2006, Bethesda, MD: "A Nematode Model for Friedreich's Ataxia."
- 59th Annual Scientific Meeting of The Gerontological Society of America, November 16 – 20, 2006, Dallas, TX: "How Far to Immortality? Facts from Research in Invertebrates."
- European Conference on Aging, November 28 – 30, 2006, Innsbruck, Austria: "Stochastic Aspects of Programmed Aging."

- Conference on Research Frontiers of Social, Environmental and Genetic Determinants of Healthy Longevity, December 19 – 21, 2006, Beijing, China: “Genetics of Longevity in *C. elegans*.”
- Molecular Basis of Aging, April 11-15, 2007, Titisee (Germany): “Epigenetic and stochastic factors in *C. elegans* longevity.”
- Summit for Systems Biology, June 5-7, 2007, Richmond, VA: “Genetics of Aging in *C. elegans*.”
- Ben Hall Symposium, August 22-25, 2007, University of Washington, Seattle, WA: “Genes, environment or chance – Roles in the specification of life span, a *C. elegans* story.”
- MiMage Summer Course, September 18-22, 2007, Les Diablerets, Switzerland: “Genes, environment, and chance in aging and life span: How much of each?”
- Gordon Research Conference, September 23-28, 2007, Les Diablerets, Switzerland: “Worm regulation of stress resistance.”
- 20th Annual AFAR Grantee Conference, October 1-2, 2007, New York, NY: “A Biomarker of Longevity Involves Response to Stress.”
- Summit on Cognitive Aging, October 9 – 11, 2007, Washington DC: “Genetic and Epigenetic Factors in Age Related Cognitive Function.”
- GEHA Training course on Genetic Data Analysis, November 11-13, 2007, Rostock, Germany: “Biodemography in a Model System: The Nematode *C. Elegans*.”
- 60th Annual Scientific Meeting of the Gerontological Society of America, November 16-20, 2007, San Francisco, CA: “Predicting Life Span Using a Single-Gene Marker: Epigenetic and/or Stochastic.”
- Longevity Consortium Symposium, December 2-3, 2007, Bethesda MD: “Stress-Resistant Embryonic Stem Cells and the Creation of Long-Lived Mice.”
- NIEHS, February 21, 2008 Raleigh, NC: “Genes, Environment, and Chance: Their Role in Aging.”
- Banbury Meeting, “The Future of Retirement,” April 27-30, 2008, Cold Spring, NY: “The Role of Stress in Specifying Longevity and Rate of Aging.”
- 7th Annual International Conference on Dose Response, April 29-30, 2008, Amherst MA: “Genetic Dissection of Hormesis: Ponce d'elegans.” (Talk delivered by J. Cypser.)
- Annual Meeting of the Centre for Integrated Systems Biology of Ageing and Nutrition, Sept. 29 – Oct. 1, 2008 Newcastle, UK: “Genes, Environment and Chance Determine Longevity: How Much of Each?”
- Longevity Consortium, Nov. 5 - 7, 2008, Washington DC: “Mapping Genes for Ad Lib and Dietary Restricted Longevity in the Mouse.”
- Gordon Research Conference on Oxidative Stress and Disease, March 8 - 13, 2009, Il Ciocco, Italy: “Slowing Aging & Optimizing Stress and Increasing Vitality.”
- International Association Biomedical Gerontology, May 18-20, 2009, Quebec City, Quebec: “Response to Stress: Epigenetic and Stochastic Aspects.”
- 38th Annual Meeting of the American Aging Association, May 29 - June 1, 2009, Phoenix, AZ: “*C. elegans*- Stochastic Patterns in Aging.”

- Fifth GEHA Annual Meeting, June 18 - June 20, 2009, Bologna, Italy: "Ageing Well from Worm to Man; Genes, Mitochondria and Heat Shock."
- MiMage Symposium on Ageing, Mitochondria in Ageing and Age-related Disease, Sept. 26 - 30, 2009, Les Diablerets, Switzerland: "Molecular Pathways Mediating Response to Oxidative Stress."
- 6th GEHA Annual Meeting, April 11-12, 2010, Bologna, Italy. "The Role of Genetics and Stochasticity in Longevity. The lesson of the Animal Models."
- The Biology of Aging: A Meeting of the Minds to Celebrate Award Winning Science; Joint Convocation of The American Aging Association, The American Federation for Aging Research, and The Gerontological Society of America, June 4, 2010, Portland, OR: "Stochastic Processes of Aging."
- Genetic and Molecular Basis of Longevity and Aging, A Paul F. Glenn Symposium on the Biology of Aging, June 4-7, 2010, Santa Barbara, CA: Developments in Aging Research from the Johnson Lab.
- British Society for Research on Aging, July 13-15, 2010, Newcastle, England: "Senescence and Aging: Program or Stochastic?" Keynote address.
- Discerning Diversity in Ageing, Nov. 9-13, 2010, Edinburgh, Scotland: "Stochastic Processes Lead to Heterogeneity in Aging".
- Aging and Age-Related Diseases, March 3, 4, 2011, New Delhi, India: "Genetic and Stochastic Analysis of Aging and Age-Related Disease in Animal Models", Keynote Address.
- Neurobiology and Neuroendocrinology of Aging, July 29 - August 3, 2012, the Kloster Mehrerau, Bregenz, Austria: "Twenty-Five Years after age-1: Genes, Interventions, and the Revolution in Aging Research," Keynote Address.
- Mitochondria, Metabolic Regulation and the Biology of Aging, February 13-16, 2013, Island of Lanzarote, Canary Islands: Novel Longevity Strains in the Mouse.
- 8th Annual Harvard/Paul F. Glenn Symposium on Aging, June 17, 2013, Harvard Medical School, Boston, MA.
- Halle meeting on ageing: Stress and ageing: from molecular biology to clinical perspectives. September 06 – 08, 2013, Halle, Germany.
- Systems Biology of Aging, (fifth in an ongoing series entitled, The Virginia Commonwealth University Summit on Systems Biology), October 17-18, 2013, Richmond, Virginia
- Interventions to Slow Aging in Humans: Are We Ready? October 8-13, 2013, Erice Sicily, Italy
- German Association for Aging Research (DGfA), Dusseldorf, Germany, December 6, 7, 2013: Keynote address
- Halle meeting on ageing: Treatment of patients: the challenge of the future. "Frailty and health span in *C. elegans* and mice": September 25 – 27, 2015, Halle, Germany
- What is the evidence for stress resistance in lower organisms being associated with aging? Front Range Consortium on Stress Resistance and Slowed Aging, October 30, 2015, Fort Collins, CO

Molecular dissection of hormesis: mechanisms and translational research. The International Dose-Response Society, April 19-20, 2016, Amherst, MA

INVITED SEMINARS:

1981:

Kansas State University, Manhattan, KS, May.
University of California at Irvine, CA, July.
University of Colorado, Boulder, CO, July.

1982:

Colorado State University, Fort Collins, CO, March.
University of Washington, Seattle, WA, June.
University of Colorado, Boulder, CO, July.

1983:

University of California at Irvine, FRF, September.
University of California at Santa Cruz, November.

1984:

University of Iowa, Iowa City, IA, April.

1985:

University of California at Riverside, March.
University of Washington, Seattle, WA, April.

1986:

National Academy of Sciences, Committee on Chemical Toxicity and Aging, Washington DC, February 21.
Lady Davis Institute for Medical Research, Montreal, Canada, May 14, "Genetic analysis of longevity genes."
University of California at Irvine, Irvine, CA., May 22, "Single genes that specify life-span in the nematode, *Caenorhabditis elegans*."
University of California, California College of Medicine, Academic Geriatric Resource Center, Orange, CA, August, "Biomarkers of aging."
Sandoz Visiting Lecturer, Institute for Research on Aging and Department of Biology, University of California at San Diego, November 7, "A gene specifying life span in *C. elegans*."
University of California at Irvine, November 11, "Genetic control of the life span."
University of Illinois at Chicago, November 18, "Genetic specification of senescence."
Regents Lecture, State University of California at Sacramento, December 5, "Genetic analysis of aging using mutants of *C. elegans*."

1987:

University of California at Irvine, Microbiology and Molecular Genetics, January 22, "Genes that control life span."
University of Colorado, Department of Psychology and Institute for Behavioral Genetics, Boulder, CO, April 20, "Genes that lengthen life and slow the loss of behavioral competence."
University of California, California College of Medicine, Academic Geriatric Resource Center, Orange, CA, April 24, "Using mutants to dissect the aging process."
Bar Harbor Laboratory, Bar Harbor, ME, May 5, "Genes that lengthen the life span of the nematode *Caenorhabditis elegans*."

Research Symposium on Aging, University of California at Irvine, May 9, "Genetic modulation of the aging processes."
Institute for Human Development, The Pennsylvania State University, College Station, PA, June 8, "Genetic specification of life span in *Caenorhabditis elegans*."
Hoag Memorial Hospital, Newport Beach, CA, September 4, "Genetic Determination of Life Span."

1988:

Beckman Research Institute of the City of Hope, Duarte, CA, February 3, "Genetic analysis of aging using *C. elegans*."
Fullerton State University, Fullerton CA, April 12, "Insights into aging using genetic analysis of *C. elegans*."
Louisiana State University Medical Center, New Orleans, LA, May 4, "Normal genes that limit life span."
Virginia Polytechnic and State University, Blacksburg, VA, May 6 "Genetic dissection of aging using *C. elegans*."
Department of Genetics, Cambridge University, May 17, "Genetic dissection of aging processes using *C. elegans*."
Linus Pauling Institute, Palo Alto, CA, November 18, "Using genetics to dissect aging processes."

1989:

Regeneron, Tarrytown, NY, May 10, 1989, "Applications of *Caenorhabditis elegans* to cell death and aging research."
School of Pharmacy, Boulder, CO, October 18, "Molecular cloning of a gene specifying life span."

1990:

Texas Christian University, Fort Worth TX, February 16, "Genetic dissection of aging using long-lived mutants of *Caenorhabditis elegans*."
University of Denver, Denver, CO, February 26, "Genetic dissection of aging using long-lived mutants of *Caenorhabditis elegans*."
Northwestern University Medical School, Chicago, IL, March 22, "Cloning genes specifying life span."
University of Colorado Health Sciences Center, Denver CO, December 10, "A gene responsible for life prolongation in *C. elegans*."

1991:

University of Texas Health Sciences Center, San Antonio, TX, January 8, "Aging, adaptive or non-adaptive?"
University of Texas Health Sciences Center, San Antonio, TX, January 9, "Identification of genes involved in aging, the nematode model."
Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan, October 29, "Identification of genes determining life span."
Tokai University School of Medicine, Isehara, Japan, October 30, "Identification of genes determining life span."
Baylor College of Medicine, Houston TX, November 11, "Cloning genes specifying length of life."

1992:

St. Louis University College of Medicine, St. Louis, MO, March 11, "The nature of genes specifying life span in *Caenorhabditis elegans*."

Texas Christian University, Fort Worth, TX, March 27, "The nature of genes specifying life span in *Caenorhabditis elegans*."

University of Missouri at Kansas City College of Medicine, Kansas City, MO, April 9, "The nature of genes specifying life span in *Caenorhabditis elegans*."

University of Michigan, Ann Arbor, MI, April 14, "The nature of genes specifying life span in *Caenorhabditis elegans*."

1993:

The George Washington University, Washington DC, Feb.23, "Using genetics to dissect the aging processes."

The Gerontology Research Center, Baltimore MD, March 16, "Using genetics to dissect the aging processes."

The Colorado Gerontology Society, Denver, CO, October 15, "Role of genetics in aging."

Southern Methodist University, Dallas, TX, December 2, "Genes involved in aging processes in *Caenorhabditis elegans*."

1994:

University of Wisconsin, Madison, WI, May 3, "Identifying genes involved in aging in the nematode *Caenorhabditis elegans*."

Geron Corporation, Mill Valley, CA, June 13, "Using genetic approaches to study aging processes."

Duke University, Durham, NC, September 13, Duke Distinguished Lecture, "Identification and function of gerontogenes."

University of Manchester, Manchester, U.K., November 3, "Identification of gerontogenes specifying life span and rate of aging in the nematode *Caenorhabditis elegans*."

Pennsylvania State University, December 12, "Toward the cloning of quantitative trait loci in the mouse for sensitivity to ethanol and general anesthesia."

1995:

Eleanor Roosevelt Institute, February 8, "Alcoholic mice and their genes."

University of Arkansas for Medical Sciences, April 30, "The identification and function of genes leading to extended life span in the nematode *C. elegans*."

University of Colorado Health Sciences Center, May 30, "Methods for detecting, confirming and cloning QTLs."

University of Colorado Health Sciences Center, August 28, Denver, CO: "Mapping QTLs for alcohol-related traits in the LS and SS selected lines."

Conference on Experimental and Evolutionary Demography of Aging, November 2-4, Durham, NC: "Demographic structure of large populations of nematodes."

University of Colorado Health Sciences Center, November 28, Denver, CO: "The gene hunt: finding anesthesia-sensitivity genes."

1996:

IPSEN Foundation, April 19, Paris, France: "Identifying and cloning longevity determining genes in the nematode *C. elegans*."

1998:

University of California at Los Angeles, January 29, Los Angeles, CA: "Gerontogenes in the worm and relevance to mammalian aging."

School of Pharmacy, University of Colorado Health Sciences Center, October 22, Denver CO: "Life extension as resistance to stress: toward a molecular description in *C. elegans*."

Department of Molecular Life Science, Tokai University School of Medicine, October, 27, Isehara, Kanagawa, Japan, "Life extension as resistance to stress: toward a molecular description in *C. elegans*."

Department of Aging Angiology, Shinshu University School of Medicine, November 4 Asahi, Matsumoto, Japan: "Life extension as resistance to stress: toward a molecular description in *C. elegans*."

Lawrence Berkeley National Laboratory, December 8, Berkeley, CA: "Gerontogenes in the nematode and their role in the response to stress."

1999:

Medical Genetics Program, University of Colorado Health Sciences Center, May 13, Denver, CO: "Molecular genetic approaches to slowing organismic aging and extending healthy life."

Philadelphia, PA: "The role of stress resistance in the specification of life extension in *C. elegans*."

Department of Biology, University of North Carolina at Chapel Hill, Oct. 22, Chapel Hill, NC: "The role of stress resistance in the specification of life extension in *C. elegans*."

2000:

Department of Environmental, Population and Organismic Biology, University of Colorado at Boulder, Sept. 15, "The role of stress resistance in the specification of life extension in the nematode *C. elegans*."

Molecular, Cellular and Developmental Biology, University of Colorado, Sept. 28, Boulder, CO: "Mouse models of human alcoholism: genes underlying ethanol neurosensitivity."

NIAAA QTL Mapping Workshop, Bethesda, MD, Nov. 30, "QTL ID to gene ID for alcohol's hypnotic action."

Neurogenetics, Inc., San Diego, CA, Dec. 7, "Potential clinical relevance of *daf-16* homologs."

2001:

Alcohol Research Center, University of Texas at Austin, TX, March 5, "Mouse models of human alcoholism: genes underlying hypnotic neurosensitivity to ethanol."

Alcohol Research Center, Wake Forest University, Greenboro, NC, April, "Mouse models of human alcoholism: genes underlying ethanol hypnotic neurosensitivity."

Roche Bioscience, Palo Alto, CA, April 25, "Mapping QTLs for alcohol and drug sensitivity in mice."

University of Rochester, Rochester, NY, Shock Center on Aging, Sept 10, "Genetic analysis of aging mutants in *C. elegans* reveals an insulin/IGF-1 pathway regulating life extension and stress resistance; are there human applications?"

Fitzsimons BioTechnology Park, Aurora, CO, Sept 26, "Finding the longevity gene...in Colorado."

Department of Psychology, University of Colorado at Boulder, Nov. 26, "Playing the gene game to understand aging."

2002:

California Institute of Technology, January 22, "Aging mutants in *C. elegans* reveal trade-offs between life extension and reduced fitness; are there human applications?"

Oak Ridge National Laboratory, Oak Ridge, TN, February 25, "Identification of life extension genes and relevance to humans and mice."

Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology, Heraklion, Crete, Greece, May 23, "Increased resistance to environmental stressors and diseases of aging: common-ground among all gerontogenes."

Department of Nutrition, University of Tennessee, Knoxville, TN, Oct. 18, "Playing the gene game to understand aging."

2003:

Annual Retreat of the Tennessee Mouse Genetics Consortium, Nashville, TN, Jan. 16, "Lessons from the worm for the mouse."

Department of Integrative Physiology, University of Colorado at Boulder, Boulder, CO, Dec. 4, "Life extension mutants in *C. elegans*."

Case Western Reserve, Cleveland, OH, Dec. 10, "Programmed aging in the nematode *Caenorhabditis elegans*? Environmental stress targets a *daf-16* dependent pathway."

2004:

Samuel Lunenfeld Research Institute, Toronto, Canada, March 31, "Genes for life extension: seven-fold increase; is that all there is."

Department of Experimental Medicine and Biochemical Sciences, University of Rome, "Tor Vergata", Rome, Italy, "Tor Vergata, May 4, "Genes, environment and chance specify the life span and aging."

Department of Nematology, Wageningen University, Wageningen, The Netherlands, December 14, "Genetic, environmental and chance determination of the life span and aging."

2005:

Laboratory of Experimental Gerontology, Gerontology Research Center, National Institutes on Aging, Baltimore MD., April 19, "Genetic, environmental and chance determination of the life span and aging."

Institute for Biomedical Aging Research of the Austrian Academy of Sciences, July 10-11, Innsbruck, Austria: "Genes, environment and chance determine longevity."

Salzburg University, Department of Genetics, July 11-12, Salzburg, Austria: "Genes, environment and chance determine longevity."

Karl Franzens University, Department of Molecular Biology, July 13-14, Graz, Austria: "Genes, environment and chance determine longevity."

Washington University School of Medicine, Department of Molecular Biology & Pharmacology, November 7, St. Louis, Missouri: "Genes, environment and chance determine longevity."

University of Alabama, Birmingham Center for Aging, Dec 2, Birmingham, Alabama. 2005 Annual Hayflick Lecture, honoring contributions to the biology of aging field. "Genes, environment and chance determine longevity."

University of Arkansas, Department of Biochemistry and Molecular Biology, Dec. 14, Little Rock, Arkansas: "Genes, environment and chance coordinately specify life span and aging."

2006:

University of Texas, Austin, TX, March 23, "Roles of genes environment and chance in determining life span."

Mayo Clinic, Rochester, MN, May 26, "Genes, environment, and chance all play a role in determining individual life span: how much of each?"

Mayo Clinic, Rochester, MN, October 4, "Life extension mutants in *C. elegans*."

2007:

Barshop Institute, University of Texas Health Sciences Center San Antonio, March 7, San Antonio, TX “How genes, environment and chance work together to determine life span.”

Boulder, CO, June 11-13, Biodemography - University of Colorado Population Center Summer Short Course, “The genetics of longevity.”

Max Planck Institute for Demography, Rostock, Germany, Nov. 13, “Genetic demography for using the nematode.”

2009:

The Jackson Lab, Bar Harbor, ME, May 21, “Genetic analysis of the aging processes.”

2010:

Portland, OR, June 4-7, The Biology of Aging: A Meeting of Minds to Celebrate Award Winning Science. Keynote Address: “Dissecting stochastic variation determining physiologic states and longevity.”

Newcastle University, Institute for Ageing and Health, Newcastle, England, Sept. 15, “Using genetics to dissect the processes of aging.”

San Antonio, TX, December 14, Cellular and Structural Biology Seminar Series, “The role of genes, environment and chance in determining the processes of aging.”

2011:

Baltimore, MD, January 11, Nathan Shock Center for Aging Research, “Dissecting aging: genetic and non-genetic approaches.”

Leiden, The Netherlands, Nov. 17, Department of Epidemiology, “Genetics, environment and chance play a role in determining life expectancy: using a nematode model to parse the effects of each.”

2012:

Birmingham, AL, Oct. 9, Nutrition Obesity Research Center, University of Alabama at Birmingham, “Genetic and stochastic dissection of aging.”

Fort Collins, CO, Nov. 9, Department of Health and Exercise Science, “Dietary Restriction in Worms and Mice.”

Lake Konstanz, Austria, Aug. 3, University Konstanz, “Aging: Exploring Genes, Environment and Chance in *C. elegans*.”

2013:

Baltimore, MD, May 30 – June 3, 42nd Annual Meeting of the American Aging Association, “Healthspan vs Lifespan” What’s Up in *Caenorhabditis elegans*.”

Santa Barbara, CA, June 3-5, 26th Annual AFAR Grantee Meeting, “Stochastics and Biomarkers of Future Health.”

San Antonio, TX, June 8 - 13, 21st Annual Summer Training Course in Experimental Aging Research, “(1) Use of Invertebrates to Discover Pathways in Aging”: (2) Resistance to Stress as a Pathway in Longevity.”

Boston, MA, June 17, Harvard Paul Glenn Symposium on Aging, “Genetic and Epigenetic Modulation of Stochastic Effects on Aging.”

Cologne, Germany, December 5, University of Cologne, CECAD Cluster of Excellence: Cellular Stress Responses in Aging-Associated Disease: Using Genetics to Slow the Rate of Aging and Increase Stress Resistance in Worms and in Mice.”

2015:

2016: Boulder, CO

Toronto, Ontario, Sept. 20, Northern Ontario School of Medicine, “Aging as an Emergent Property of Resistance to Stress”

Current Thesis Committees (for students not under my direction)

Cal Tech student,

Ph.D, Thesis Committee, Innsbruck Austria, Ms. Andrea Taferner: "The aging of biological communication systems", August, 2015

Recent Undergrads (Past students estimated to be > 100: 1988 – current)

Anita Lowe (see below)

Laura Gentile, Integrative Physiology, Undergraduate Research Opportunity Program (2011 – 2012)

Lindsey Mae Beverly, Integrative Physiology (2011 – 2012)

Vinod Kantha, Integrative Physiology (2011 – 2012)

Katherine Karabus, Integrative Physiology (2011 – 2012)

Eli Finer, Integrative Physiology (2013 – 2014)

Jerome Castillion, Integrative Physiology (2012 – 2014)

Cody Jackson, Integrative Physiology (2013 – 2014)

Samantha Humann, Integrative Physiology, UROP (2014)

Leah Reagan Greenfield, UROP (2015, 2016,2017)

Alexa Mejorada, Integrative Physiology, UROP (2017)

Past Undergrads of Merit

Anita Lowe, recipient Howard Hughes Medical Institute Grant, Integrative Physiology, Summa Cum Lauda; recipient: "Best Student in the College of Arts and Sciences (2011), Currently at Stanford Medical School.

David Kitzenberg, Integrative Physiology, *Summa Cum Lauda*, recipient Howard Hughes Medical Institute Grant (2011 – 2012)

Breanne Lauren Newell, Integrative Physiology, Sum Lauda, Undergraduate Research Opportunity Program (2011 – 2012)

Former Graduate Students (all PhD except as noted)

1988-1994, Tom Fabian, Last: GenoPlex Corp. Denver CO

1989-1994, Anne Brooks, Last: Academic advisor, Integrative Physiology, CU Boulder

1990-1994, Paul Markel, Professor, Minot State University, ND

1990-1996, Stacey Duhon, Vice President for Student Affairs, Grambling State University

1993-1996, David Shook, Research Scientist, University of Virginia, Charlottesville

1996-2002, Jim Cypser, Research Associate, University of Colorado, Boulder

1998-2001, Jeremy Owens, Director of Student Services and Adjunct Psychology, Westwood College Online, Denver, CO

2001-2005, Oge Arum, Research Fellow, University of Illinois

2003-2008, Clarissa Parker, Assistant Professor, Middlebury College

2009 – 2011, Larry Taylor, MS, Graduate Student, U Cal, Berkeley

2011 – 2014, Breanne Newell, MS, Now in PhD program IPHY

2014 – 2015, Hannah Shapero, Integrative Physiology, University of Colorado at Boulder

Current Graduate Students

2012 – current, Breanne Newell, Integrative Physiology, University of Colorado at Boulder

2016 – current, Garrett Jeffrey Schumacher, Integrative Physiology, University of Colorado at Boulder

Past Post-Doctoral Fellows

Beth Bennett, Ph.D. from University of Colorado at Boulder. Current Position: University of Colorado at Denver

Chris Downing, Ph.D from State University of New York at Albany. Current Position: Assistant Professor, Idaho State University; Pocatello, ID

Vaughn Gehle, Ph.D. from UC Irvine. Current Position: South West State University, MN, Associate Professor

Edward Hutchinson, Ph.D from UC Irvine

Takamasa Ishii, Ph.D from Kyoto University. Current Position: Tokai School of Medicine

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Current Post-Doctoral Fellows and Research Associates, PhD Granting Institution

James Cypser, Ph.D., University of Colorado at Boulder

(27,231 words)