

CURRICULUM VITAE  
OF  
JAMES N. THOMPSON, JR.

GENERAL:

Born: May 24, 1946; Lubbock, Texas  
Home Address: 8061 Cemetery Road, Noble, Oklahoma 73068  
University Address: Department of Zoology, University of Oklahoma, Norman, OK  
73019

EDUCATION:

University of Oklahoma, Norman, Oklahoma  
B.S. in Zoology, 1968  
B.A. in Philosophy, 1968  
University of Cambridge, Cambridge, England  
Ph.D. in Genetics, 1973

MILITARY EXPERIENCE:

U.S. Army, 1968-1970 (Military Police Corps; discharge rank of Sergeant E-5)

HONORS, FELLOWSHIPS AND AWARDS:

B.S. with Highest Honors in Zoology  
B.A. with Highest Honors in Philosophy  
Phi Beta Kappa, 1968  
Marshall Scholar to the University of Cambridge, 1970-73  
Baldwin Teaching Award, 1977  
AMOCO Teaching Award, 1979  
Sigma Xi Research Award, 1981  
O.U. Associates Distinguished Lecturer, 1984, 1986  
Regents' Award for Superior Teaching, 1987  
Professor of the Year, OU Student Association, 1994  
Samuel Roberts Noble Foundation Presidential Professor, 1996-2000  
Phi Kappa Phi, Honors Society, Distinguished Member, 1998  
David Ross Boyd Professor, 2001-present

PROFESSIONAL EXPERIENCE:

Postdoctoral Fellow, Science Research Council grant, Department of Genetics,  
University of Cambridge, Cambridge, England; 1973-75.

Assistant Professor, Department of Zoology, University of Oklahoma, Norman, Oklahoma; 1975-79.

Associate Professor, Department of Zoology; 1979-90.

Professor, Department of Zoology; 1990-2001.

David Ross Boyd Professor of Zoology, 2001-present.

Assistant Chair, Department of Zoology; 1981-1984.

Chair, Department of Zoology; 1984-2003.

Co-Director, Premedical Advising, 1995-present.

Adjunct Associate Professor, Department of Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma; 1984-present.

#### PROFESSIONAL AND HONORARY SOCIETIES AND BOARDS:

Phi Beta Kappa

Genetics Society of America

Genetical Society of Great Britain

Cambridge Philosophical Society (Fellow)

Phi Sigma (former Faculty Sponsor, Omega Chapter)

The *Drosophila* Board, Genetics Society of America

Advisory Board, Mid-America *Drosophila* Stock Center, 1993-1995

Executive Board, Oklahoma Center for Neurosciences, 1993-1994

Biodiversity Task Force, Biology Committee Member, Oklahoma Department of Wildlife Conservation, 1993-1995

NASA Science Advisory Committee for the International Space Station's Insect Habitat

#### EDITORIAL BOARDS:

Editorial Board, "The Biologist", 1979-1988

Editor, "*Drosophila* Information Service", 1990-present

Associate Editor, "Genetica", 1999-present

#### AREA OF RESEARCH INTERESTS:

Quantitative genetic variation in natural populations and its role in developmental processes, including pattern formation, developmental homeostasis, and aging.  
Mutation rate variation, including the effects of premeiotic events that yield clusters of mutation, and stress factors such as hypergravity, vibration, and aging that can affect mutation rate

Quantitative morphometrics of fluctuating asymmetry in *Drosophila* and variations in human brain development through MRI scans

#### RESEARCH FUNDING:

##### EXTRAMURAL GRANTS:

DHEW-NIEHS, 1976-79, \$112,115, "Frequencies of Mutator Factors in Natural Populations"

NSF, 1978, \$10,500, "Student-Originated-Studies: Economic Impact of Salinity Variation upon Selected Faunal Distributions in Lake Texoma" (Faculty Sponsor)

DHEW-NIH, 1979-82, \$71,508, "Gene Number and Development in Quantitative Traits"

NATO, 1980-81, \$4,515, "Correlation Between Mutator Factors and Transposability of Nomadic DNA Sequences in *Drosophila melanogaster*"

NSF, 1983-86, \$124,000, "Polygenic Basis of Adaptability"

More Oklahoma Science and Technology (MOST), 1986, \$120,000, "Biotechnology Equipment"

More Oklahoma Science and Technology (MOST), 1986-87, \$40,000, "Faculty Exchange and Biotechnology Workshops"

Oklahoma State Regents, June 1986, \$23,295, "Summer Institute in Environmental Biology" (with Dr. Linda Norton, Program Development Services)

Oklahoma State Regents, June 1987, \$24,763, "Summer Institute on Central Themes in Biology" (with Dr. Linda Norton, Program Development Services)

Christiaan Barnard Research Institute, 1987-91, \$1,500, "Cell Regeneration and Glycosphingolipid Effects"

Oklahoma State Regents, June 1988, \$22,000, "Summer Institute on Central Themes in Biology" (with Dr. Linda Norton, Program Development Services)

Kerr-McGee Corporation, 1988, \$4,592, "Determination of Toxicity of Boric Acid Compounds" (Co-PI; Todd A. Crowl, PI)

Kerr-McGee Corporation, 1988-1989, \$6,757, "Effects of Borate-Treated Wood on Fecundity and Survivorship of Pest Species" (Co-PI; Todd A. Crowl, PI)

Department of Commerce, Oklahoma Center for Advancement in Science and Technology (OCAST), 1989-1992, \$89,245, "Genetic Control of Developmental Pattern Formation"

Presbyterian Health Foundation, 1990, \$19,600, "Quantitative analysis of cerebellar vermal hypoplasia and autism" (Co-PI; G. Bradley Schaefer, PI)

NASA/EPSCoR, 1999-2000, \$20,000, "Pilot experiments for the International Space Station and evaluation of Insect Habitat hardware"

NASA, 2000-2004, \$789,965, "Effect of hypergravity, vibration, and radiation on genetic and developmental stability in *Drosophila melanogaster*" (with R.C. Woodruff, Co-I).

NASA, 2002-2007, \$692,268, "Genetic and developmental stability in response to long-term exposure of *Drosophila melanogaster* to a space station environment" (with R.C. Woodruff, Co-I)

INTRAMURAL GRANTS (excluding those for purely departmental projects and development):

University of Oklahoma Faculty Research Council, 1975, 1980, 1982, 1988  
Biomedical Sciences Support Grant, 1980-81, 1985-86  
University of Oklahoma Associates, 1981, 1985  
Arts and Sciences Summer Research Fellowship, 1982  
OU Research/Creative Activity Equipment/Facilities Grant, 1999-2000

#### FACULTY SPONSOR FOR STUDENT CLUBS

Alpha Epsilon Delta/Pre Med Club  
American Medical Student Association (AMSA) (until merged with AED/PreMed)  
Zoological Society  
Zoology Association of Graduate Students (ZAGS) 1984 - 2003

#### SYMPOSIUM ADDRESSES AND REPRESENTATIVE INVITED LECTURES:

- 1977 "Polygenic Modifiers of Wing Venation in *Drosophila*: A Model System", July, Symposium on the Nature of Polygenes, University of Cambridge, Cambridge, England.
- 1977 "An Analysis of Gene Number and Development in Polygenic Systems", April, 9th Stadler Genetics Symposium, Columbia, Missouri.
- 1980 "Mutator Activity in *Drosophila*", August, University of Leiden, Leiden, The Netherlands.
- 1981 "Hybrid dysgenesis: Causes and Consequences", April, Symposium of the 22nd Annual National *Drosophila* Conference, University of Chicago, Chicago, Illinois.
- 1982 "Genetic Control of Spontaneous Mutation", Phi Sigma Society Lecture, University of Oklahoma, Norman.
- 1984 "Genetic variation in natural populations affecting the release of mutability and the transposition of mobile genetic elements." Talk presented at workshop on "Molecular and Population Biology of Hybrid Dysgenesis, September, King's College, Cambridge University, Cambridge, England.
- 1984 "Genes and Development: Some Unresolved Problems", Beta Beta Beta Initiation Banquet speaker, October, Northeastern State University, Tahlequah, Oklahoma.
- 1985 "Conditional polygenic responses to temperature variation: A study of adaptive strategies", Department of Genetics and Human Variation, LaTrobe University, Bundoora, Victoria, Australia.
- 1988 "Effects of cell extract homogenates on nuclear division and UV protection in *Tetrahymena*." Conference on Scientific Investigations in the Field of Cellular Therapy, Montreaux, Switzerland (with Christiaan N. Barnard).
- 1999 "Clusters of new mutations in the evolutionary landscape and in estimations of mutation rate", NASA Ames Research Center, Moffett Field, California.
- 2003 "Genetic and developmental symmetry in response to long-term exposure of *Drosophila melanogaster* to a Space Station environment", NASA Ames Research Center, Moffett Field, California

## SEMINARS AND SCIENTIFIC MEETING PRESENTATIONS:

(Some presentations had co-authors.)

- 1972 Mendel Symposium, Brno, Czechoslovakia.
- 1972 Third European *Drosophila* Research Conference, Milan, Italy.
- 1973 13th Internatl. Congr. Genetics, Berkeley, CA.
- 1974 Fourth European *Drosophila* Research Conference, Umea, Sweden.
- 1976 Genetics Society of America, Salt Lake City, UT.
- 1976 *Drosophila* Genetics Conference, Tempe, AZ.
- 1977 Oklahoma Academy of Science, Alva, OK.
- 1977 Environmental Mutagen Society, Colorado Springs, CO.
- 1978 Kansas State University, Manhattan, KS.
- 1979 Genetics Society of America, Columbia, SC.
- 1979 *Drosophila* Genetics Conference, Bloomington, IN.
- 1979 Evolution Society, Boulder, CO.
- 1979 Oklahoma Academy of Science, Edmond, OK.
- 1980 Cambridge University, Cambridge, England.
- 1980 Rockefeller University, New York City, NY.
- 1980 *Drosophila* Genetics Conference, Snowbird, UT.
- 1980 Oklahoma Academy of Science, Norman, OK.
- 1981 Oklahoma State University, Stillwater, OK.
- 1982 *Drosophila* Genetics Conference, Storrs, CT.
- 1982 Genetics Society of America, New Haven, CT.
- 1983 Genetics Society of America, St. Louis, MO.
- 1983 *Drosophila* Genetics Conference, Asilomar, CA.
- 1984 *Drosophila* Genetics Conference, Chicago, IL.
- 1984 Genetics Society of America, Vancouver, Canada.
- 1986 OU Health Sciences Center, Oklahoma City, OK.
- 1987 *Drosophila* Genetics Conference, Chicago, IL.
- 1988 16th Intl. Congr. Genetics, Toronto, Canada.
- 1988 Conference on Cellular Therapy, Montreux, Switzerland.
- 1989 Oklahoma State University, Stillwater, OK.
- 1989 Evolution Society, University Park, PA.
- 1989 *Drosophila* Genetics Conference, New Orleans, LA.
- 1989 UCLA Symp., Molecular Biology of Aging, Santa Fe, NM.
- 1989 UCLA Symposium, Molecular Evolution, Lake Tahoe, NV.
- 1990 *Drosophila* Genetics Conference, Asilomar, CA.
- 1990 Genetics Society of America, San Francisco, CA.
- 1991 Gordon Conf. on Quantitative Genet. and Biotechnology, Oxnard, CA.
- 1991 8th Intl. Congr. Human Genetics, Washington, D.C.
- 1992 *Drosophila* Genetics Conference, Philadelphia, PA.
- 1993 *Drosophila* Genetics Conference, San Diego, CA.
- 1994 University of Michigan, Ann Arbor, MI.
- 1995 *Drosophila* Genetics Conference, Atlanta, GA.
- 1995 University of Tulsa, Tulsa, OK.
- 1996 Blaise Pascal Univ., Clermont-Ferrand, France.

1996 Univ. Autonomata de Barcelona, Spain.  
1996 *Drosophila* Genetics Conference, San Diego, CA.  
1997 *Drosophila* Genetics Conference, Chicago, IL.  
1997 Soc. for the Study of Evolution, Boulder, CO.  
1999 16th European *Drosophila* Research Conference, Zurich, Switzerland  
2000 *Drosophila* Genetics Conference, Pittsburg, PA  
2000 Soc. for the Study of Evolution, Indianapolis, IN  
2001 Conference on the Future of Chronic Acceleration, UC Davis, CA  
2001 *Drosophila* Genetics Conference, Washington, DC  
2001 17th European *Drosophila* Conference, Edinburgh, Scotland  
2001 Amer. Soc. for Gravitational and Space Biology, Alexandria, VA  
2002 *Drosophila* Genetics Conference, San Diego, CA  
2002 Soc. for the Study of Evolution, Urbana-Champaign, IL  
2002 Amer. Soc. for Gravitational and Space Biology, Cape Canaveral, FL  
2003 *Drosophila* Research Conference, Chicago, IL  
2003 Soc. for the Study of Evolution, California State University, Chico, CA  
2003 18<sup>th</sup> European *Drosophila* Research Conference, Göttingen, Germany  
2004 *Drosophila* Research Conference, Washington, DC  
2004 Soc. for the Study of Evolution, Penn State University, State College, PA  
2005 *Drosophila* Research Conference, San Diego, CA  
2005 Amer. Soc. for Gravitational and Space Biology, Reno, NV  
2005 Soc. for the Study of Evolution, Fairbanks, AK  
2005 19<sup>th</sup> European *Drosophila* Research Conference, Eger, Hungary

#### OTHER PROFESSIONAL EXPERIENCE:

1978 Discussant: NATO Advanced Study Institute, "Theoretical Advances in Behavior Genetics", 29 Sept to 8 Oct, Banff Centre, University of Alberta, Canada.  
1979 Symposium on Biological Development, 11-13 Sept, Marine Biological Laboratory, Woods Hole, Massachusetts.  
1981 Panel Discussant: "The Nature of Life and Contemporary Values", November, Symposium in Honor of J. Clayton Feaver, O.U. College of Liberal Studies.  
1982 Faculty Resource Person: Scholar-Leadership Enrichment Program seminar by Dr. Jack D. Barchas, "Behavioral Neurochemistry and Personal Health", 15 to 19 Nov, University of Oklahoma.  
1984 Faculty sponsor for Dr. R. Milkman at the Edison Foundation 31st Science Institute, 12-13 March, University of Oklahoma.  
1985 Faculty Resource Person: Scholar-Leadership Enrichment Program seminar by Dr. Gunther Stent, "Brain and Reality: How Do We Come to Know the World", January, University of Oklahoma.  
1986 Gordon Research Conference on Quantitative Genetics, 20-24 January, Santa Barbara, California.  
1986 Panel discussant in Humanities Workshop on "Responsibility of Humanities for Human Aspiration." Central State University, Edmond, Oklahoma.  
1987 NIH Workshop "Medical Genetics: 1987", 17-19 May, Bethesda, Maryland.

- 1987 "Advances in Recombinant DNA Technology", 28-30 September, Lake Tahoe, Nevada.
- 1988 *Drosophila* field studies in Kenya, with R.C. Woodruff, 27 June to 28 July.
- 1992 "Transposable Elements and Evolution", 27-28 June, University of Georgia, Athens, Georgia.
- 1993 Session Chair, Gordon Conference on Quantitative Genetics and Biotechnology, Ventura, California.
- 1997 Panel Member, "Science and Religion, Session III, Evolution", 18 February, Westminster Presbyterian Church, Oklahoma City, OK.
- 2002 Enrolled in Short Course on Bioethics, Iowa State University, Ames, IA
- 2001, 2003, 2004 Enrolled in Modules of the Summer Institute in Statistical Genetics, North Carolina State University, Raleigh, NC
- 2003 NASA Free Flyer Research Roadmap Workshop, Ames Research Center, Moffett Field, CA

#### REVIEWER:

PROFESSIONAL JOURNALS: American Midland Naturalist, American Naturalist, American Philosophical Society, American Psychologist, American Sociologist, Animal Behaviour, Australian Journal of Biological Science, Biochemical Genetics, The Biologist, BioMed Central Genetics, Biometrics, Bios, BioScience, Canadian Journal of Genetics and Cytology, Copeia, Entomological News, Evolutionary Theory, Journal of Heredity, Genetique Selection Evolution, Genetica, Genetics, Molecular Biology and Evolution, Mutation Research, National Geographical Society, Nature, Proceedings of the National Academy of Sciences USA, Science, Southwestern Journal of Philosophy

#### FUNDING AGENCIES:

Australian Research Grants Committee, Canada Council, March of Dimes, National Science Foundation, NASA

PEER REVIEW PANEL: NASA, Cellular and Molecular Biology Panel, 2003; NASA Non-Advocate Review Panel, Chair, 2005

#### COURSES TAUGHT:

Introductory Zoology, 1986, 1994-1995  
 Introductory Zoology (Honors Section), 1975-1993, 1995-2006  
 Introductory Zoology Lab (Honors Section), 1975-1993, 1995-2006  
 Human Heredity, 1976-80, 1982  
 Genetics, 1979, 1981, 1985-1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006  
 Genetics Lab, 1979, 1986  
 Ecological Genetics, 1980, 1982, 1984, 1991, 1995, 1999  
 Experimental Genetics, 1982  
 Foundations for the Biomedical Sciences, 2001-2006  
 Developmental Genetics, 1983

Molecular Techniques for Field Biology (summers at the University of Oklahoma Biological Station), 1990-2006

Senior Seminar, 1994, 1997, 2001, 2003, 2005

Introduction to Population Genetics, 2005

Graduate Seminars

Ecological Genetics, 1976, 1978, 1983, 1997

Philosophy of Biology, 1984

Developmental Genetics, 1985, 1987, 1989, 1991

Quantitative Genetics, 1989

Conservation Genetics, 1993

Freshman Seminar in Human Genetics, 1989-1991

#### STUDENT THESES DIRECTED:

##### UNDERGRADUATE HONORS THESES:

Donaldson, S.G. 1980. In vitro effect of manganese ion on ribosome-membrane interactions. (Included research at the Oklahoma Medical Research Foundation, Oklahoma City).

Hall, D.G. 1980. The effect of metals on cell death mutants in *Drosophila melanogaster*.

Smith, C.M. 1980. Analysis of chromosome breakage and transmission of a mutator factor in *Drosophila melanogaster*.

Toney, J.V. 1980. Genetic influences upon cuticular pattern formation in *Drosophila*.

Connery, S.E. 1982. An investigation of aging in *Drosophila melanogaster*.

Kennedy, J.S. 1982. Polygenic analysis of vein-forming competence in the anterior compartment of the wing of *Drosophila melanogaster*.

Duncan, D.K. 1986. Genetic and environmental influences upon developmental patterning in *Drosophila*.

McCaleb, W.T. 1986. The effects of paternal age on developmental homeostasis in *Drosophila melanogaster*.

Mericle, R. 1989. Glycosphingolipid and cell growth in vitro and in vivo.

Zueck, D. 1989. Creation of a mutant in the coding region of the gene which expresses the glucanbinding protein of *Streptococcus mutans*. (Included research at the Oklahoma Medical Research Foundation, Oklahoma City).

Romo, D. 1990. Genetic control of a simple developmental pattern.

Phillips, M. 1990. Correlations between wing vein development and sense organ differentiation in *Drosophila*.

Berryhill, W. 1992. Determination of sense organ distribution in thick-vein mutants of *Drosophila*.

Lees, Jason S. 1994. Evaluation of the role of nitric oxide on the progression of endotoxin induced circulatory shock. (Co-directed with OUHSC faculty.)

Sachdev, A. 1994. Effects of ricin on phosphatidyl- inositol hydrolysis in rabbit aorta. (Co-directed with C. Robinson, OUHSC).

Austin, Meshia. 1996. The effects of wing vein thickness and temperature in *Drosophila melanogaster*.

- Bahajak, April. 1996. Wing vein thickness and temperature effects on sensory organ formation in mutant *Drosophila melanogaster*.
- Steele, Eric M. 1996. Effects of size variation on patterns of peripheral sense organ development in the *Drosophila* wing.
- Loy, Joseph A. 1997. The role of environmental stress and homozygosity on fluctuating asymmetry in *Drosophila melanogaster*.
- McCauley, Colm P. 1997. A genetic analysis of pattern formation in *Drosophila*: Symmetry and spatial patterning of wing vein sensillae.
- Bonner, Matthew R. 1998. MRI scanning and brain sulcation: Establishing a method to create a normative data set.
- Friedman, Michele Jacqueline. 1998. Novel sigma ligands and cocaine overdose. (Supervised by Dr. R. Matsumoto, OUHSC).
- Fletcher, Russell B. 1999. Quantitative expression of peripheral sense organ patterns in *Drosophila melanogaster* carrying the mutant *hairy*.
- Klitzman, Robert. 1999. The effect of wing mutations on the distribution of sense organs on the L3 vein of *Drosophila melanogaster*.
- Anderson, Keith A. 2002. An exploration in testing the phenomenon of vibration on *Drosophila melanogaster*.
- Torgerson, Brian T. 2002. Measurement of fluctuating asymmetry in *Drosophila melanogaster* due to hypergravity stress.
- Glomset, John L. 2003. Stress effects on developmental stability in *Drosophila melanogaster*.
- Potthoff, Matthew J. 2003. Patterns of locomotion activity during hypergravity in larval *Drosophila melanogaster*. (Note: Matt's presentation at Undergraduate Research Day was selected as the outstanding talk, and he received the Phi Beta Kappa award (\$300) at a ceremony during the Honors College Breakfast before graduation ceremonies on 10 May 2003).
- Kurkjian, T. Jonathan. 2003. Pilot experiment on RNA stability in suboptimal conditions and future application to repair gene expression. (Botany-Microbiology major).
- Madrid, David Jeremy. 2004. The effects of hypergravity and vibration on *Drosophila melanogaster*.
- Scott, Howard Nathaniel. 2004. The relationship between somatic mutation and developmental stability using mariner transposition in *Drosophila simulans*.
- Tandy, Matthew Lee. 2004. Somatic mutation and developmental stability in *Drosophila*.
- Christensen, Blake D. 2005. Pilot experiment on RNA stability in suboptimal conditions.
- Cunningham, Major J. 2005. Effects of hypergravity on wing development in *Drosophila melanogaster*.
- Potthoff, Bryan. 2005. Microsatellite mutation rate of *Drosophila melanogaster* due to vibrational stress.
- Williams, Alexander J. 2005. Does altered stress response affect coordinated spatial patterning of *Drosophila* development?

M.S. AND PH.D. THESES:

- Schnee, Fred B. (Ph.D., 1983). Genotype x environment interactions in *Drosophila melanogaster*.
- Carroll, Scott P. (M.S., 1983). Reproductive competition in *Jadera haematoloma* (Insecta: Hemiptera: Rhopalidae).
- Brumley, Robert L., Jr. (M.S., 1986). Genetic control of specific antibody production in man: Association of HLA with serum IgG levels to D-alanyl teichoic acid.
- Randolph, Vicky Evans (M.S., 1990). Paternal age effects on mutant penetrance and expressivity of *Drosophila melanogaster*.
- Sholl, Kathleen April (M.S., 1994). Proximal-distal variations in mutant expression: Evidence for morphogenic gradients in the *Drosophila* wing.
- Jeung, Mingull (Ph.D., 1996). Environment and genetic variability.
- Jackson, Diane L. (M.S., 2004) Developmental symmetry studies in *Drosophila melanogaster*.
- Hallman, Clayton (M.S., in progress).

M.L.S. THESES SUPERVISED:

- Hale, C.A. (M.L.S., 1986). Cytogenetic assays of families with chronic fetal loss.
- Averyt, D. (M.L.S., 1987). The genetic influence upon alcohol dependency and alcohol abuse.
- Berman, M.C. (M.L.S., 1988). Literature Survey of the mammals and ecology of a ninety-mile radius of the Falls of the Ohio River from the Pleistocene to the present.

DEPARTMENTAL AND UNIVERSITY SERVICE:

DEPARTMENTAL:

- Public Relations and ZOO-OOZ Editor, 1976-1981
- Senior Seminar Committee, 1976
- Zoology Alumni Development Committee, 1977-1984
- Chairperson Search Committee, 1979-1980
- Undergraduate Studies Committee, 1979
- Committee A, 1980-1983; 1984-2003 as Chair
- Electron Microscopy Committee, 1980-1984
- Chair, 1984-2003
- Director of Undergraduate Studies, 2002-present
- Assessment Liaison, 2002-present

UNIVERSITY:

- Harriet Harvey Scholarship Committee, 1977-present
- Arts and Sciences Research Awards Committee, 1979
- Arts and Sciences Tenure Committee, 1979
- Advisory Committee to Vice Provost of Instructional Services, 1980-1982
- OU Associates Life Sciences Research Awards Sub-committee, 1981
- Carl Albert Award Selection Committee, 1982-1983

Feaver/MacMinn Seminar and Fellowship Advisory Committee, 1984-1987  
 Rhodes Scholarship Committee, 1985-1990, 1992; Chair, 1988-1990; 2003  
 Scholar-Leadership Enrichment Program Committee Advisory Committee  
 Member, 1986-1992  
 Chair, 1987-1992  
 OU Campus Coordinator, 1985-1992  
 George M. Sutton Scholarship Committee, 1985-2003  
 Arts and Sciences Plans and Priorities Committee, 1986-1989; Chair, 1987-1988  
 Provost's Task Force on Honors, 1986-1987  
 Honors Director Search Committee, 1987  
 Arts and Sciences Dean Search Committee, 1992  
 Science Certification Program Committee, 1990-1993, 2000  
 Premedical Professions Committee, Interview Co-Chair, 1993-present  
 Arts and Sciences Strategic Planning Executive Committee, Chair, 1993-1994  
 Co-Director of Premedical Advising, 1995-present  
 Faculty Sponsor, PreMed/AED Club, and American Medical Students Assn.  
 (AMSA), 1996-present  
 Phi Beta Kappa, OU Chapter: Vice President, 1996-1997; President, 1997-1998;  
 Members-in-Course Committee, 1995-present (Chair)  
 Arts and Sciences Course and Curriculum Committee, 1996-present; Chair,  
 1997-1998  
 Arts and Sciences Support of Teaching and Research Committee, 2000-2002  
 National Security Education Program (NSEP) Scholarship Committee, 1996-2001  
 Arts and Sciences Scholarship Committee, 1998-2000; Chair, 1998-2000  
 Honors Council, 1999-2008  
 Arts and Sciences Executive Committee, 2002-2004  
 College of Liberal Studies Executive Committee, 2002-2006  
 Faculty Advisory Board to the OU Press, 2002-present

PUBLICATIONS (chronologically arranged, but abstracts are not numbered. Articles 1-15 and 27 were on research done as an undergraduate. Entry numbers for books are in bold.):

1. Thompson, J.N., jr. 1967. Inexpensive fruit fly trap adapted for classroom use. *Turttox News* 45: 282-283. (Reproduced in: Behringer, M.P., 1973. *Techniques and Materials in Biology*. McGraw-Hill, New York).
2. Thompson, J.N., jr. 1968. Recessive mutants in a wild *Drosophila melanogaster* population. *Proc. Oklahoma Acad. Sci.* 47: 153-158.
3. Thompson, J.N., jr., J.M. Parks and H.E. Schlichting. 1968. Morphological changes in *Euglena mesnili*. *Proc. Oklahoma Acad. Sci.* 47: 29-31.
4. Thompson, J.N., jr. and G. Braver. 1969. Lethal effect of attached-X deletion in *Drosophila melanogaster*. *Genet. Res.*, Cambridge 13: 325-327.
5. Thompson, J.N., jr. and S.D. Barrett. 1969. Growth of the Mongolian gerbil, *Meriones unguiculatus*. *Trans. Kansas Acad. Sci.* 72: 223-229.
6. Thompson, J.N., jr. 1969. Variations in the interparietal of the kangaroo rat, *Dipodomys ordii*. *Amer. Midland Natur.* 82: 625-628.

7. Thompson, J.N., jr. and J.K. Greer. 1969. Oklahoma range of *Dipodomys ordii* (Rodentia: Heteromyidae). Proc. Oklahoma Acad. Sci. 48: 108-109.
8. Thompson, J.N., jr. and S.D. Barrett. 1969. A nest complex of *Perognathus hispidus* (Rodentia: Heteromyidae) in Oklahoma. Proc. Oklahoma Acad. Sci. 48: 105-108.
9. Thompson, J.N., jr. 1969. Genetics in philosophical perspective. Bios 60: 77-81.
10. Thompson, J.N., jr. 1970. Cave fauna of Oklahoma: Bibliography excluding Chiroptera. Proc. Oklahoma Acad. Sci. 49: 102-104.
11. Eoff, M. and J.N. Thompson, jr. 1970. A preliminary study of eclosion time selection in *Drosophila melanogaster*. Proc. Oklahoma Acad. Sci. 49: 29-34.
12. Thompson, J.N., jr. and R.L. Gilstrap. 1970. Plant specificity in striped skunk diggings. S.W. Natur. 15: 135.
13. Thompson, J.N., jr. and J.K. Greer. 1970. Geographical ranges of three Oklahoma mammals. S.W. Natur. 15: 131.
14. Thompson, J.N., jr. 1971. Chromosomes of Oklahoma mammals: Three species of squirrels. Proc. Oklahoma Acad. Sci. 51: 79-80.
15. Thompson, J.N., jr. and E.M. Grigsby. 1971. The pickerel frog in northeastern Oklahoma. S.W. Natur. 16: 219.
- Thompson, J.N., jr. 1972. Specificity in the pattern of extra wing venation in mutants of *Drosophila melanogaster* investigated by directional selection. Proc. 3rd European *Drosophila* Research Conference, Milan, Italy.
16. Gibson, J.B., C.G.N. Mascie-Taylor and J.N. Thompson, jr. 1972. "A.R. Jensen, Letter". Perspectives Biol. Medicine 16: 154.
17. Thompson, J.N., jr. and J.M. Thoday. 1972. Modification of dominance by selection in the homozygote. Heredity 29: 285-292.
- Thompson, J.N., jr. and D.J. Purnell. 1972. New mutants report. Dros. Inf. Serv. 48: 16.
18. Purnell, D.J. and J.N. Thompson, jr. 1973. Selection for asymmetrical bias in a behavioural character of *Drosophila melanogaster*. Heredity 31: 401-405.
19. Thompson, J.N., jr. 1973. General and specific effects of modifiers of mutant expression. Genet. Res., Camb., 22: 211-215.
- Thompson, J.N., jr. 1973. A new suppressor of veinlet and comments on two other vein mutants. Dros. Inf. Serv. 50: 59.
- Thompson, J.N., jr. 1973. Character specificity in polygenic modifiers of wing venation mutants in *Drosophila melanogaster*. Genetics 74: s275-s276.
20. Thompson, J.N., jr. 1974. Studies on the nature and function of polygenic loci in *Drosophila*. I. Comparison of genomes from selection lines. Heredity 33: 373-387.
21. Thompson, J.N., jr. 1974. Studies on the nature and function of polygenic loci in *Drosophila*. II. The subthreshold wing vein pattern revealed in selection experiments. Heredity 33: 389-401.
22. Thompson, J.N., jr. and J.M. Thoday. 1974. A definition and standard nomenclature for "polygenic loci". Heredity 33: 430-437.
- Thompson, J.N., jr. 1974. Modifying components of a single mutant phenotype. Proc. 4th European *Drosophila* Research Conference, Umea, Sweden.
23. Thompson, J.N., jr. 1975. Quantitative variation and gene number. Nature 258: 665-668.
24. Thompson, J.N., jr. and J.M. Thoday. 1975. Genetic assimilation of part of a mutant phenotype. Genet. Res. Camb. 26: 149-162.

25. Thompson, J.N., jr. 1975. Studies on the nature and function of polygenic loci in *Drosophila*. III. veinlet modifiers having region-specific effects upon the vein pattern. *Genetics* 81: 387-402.
26. Thompson, J.N., jr. 1975. A test of the influence of isoallelic variation upon a quantitative character. *Heredity* 35: 401-406.  
Thoday, J.M. and J.N. Thompson, jr. 1975. Some simple models of continuous variation with few genes. *Heredity* 35: 145.  
Woodruff, R.C. and J.N. Thompson, jr. 1975. Genetic analysis of male recombination in *Drosophila melanogaster*. *Genetics* 80: s86.
27. Greer, J.K. and J.N. Thompson, jr. 1975. Bulbous cranium in a dwarf horse skull. *Proc. Oklahoma Acad. Sci.* 55: 128-129.  
Thompson, J.N., jr. and J.M. Thoday. 1976. Estimating polygene allele frequencies in a natural populations of *Drosophila melanogaster*. *Genetics* 83: s76.
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