

STANLEY E. GILLILAND

BORN: June 24, 1940

DEGREES:

B.S. 1962. Oklahoma State University
M.S. 1962. Oklahoma State University
Ph.D. 1966. North Carolina State University

PRESENT TITLE AND PREVIOUS POSITIONS:

Regents Prof/Sitlington Endowed Chair in Food Micro Animal Science 1998 to present (OSU)
Regents Professor in Animal Science 1986 to 1998 (OSU)
Professor in Animal Science 1980 to 1986 (OSU)
Associate Professor in Animal Science 1976 to 1980 (OSU)
Assistant and Associate Professor in Food Science 1965 to 1976 (N.C. State U.)

TEACHING ASSIGNMENT:

ANSI 3113 Quality Control (Spring alternating years)
ANSI 3154/Micro 3154 Food Microbiology (Fall each year)
ANSI 5120 (2 hr) Bacterial Starter Cultures (Spring alternating years)
Advisor 6 undergraduates

RESEARCH ASSIGNMENT:

OKL02485 Lactobacilli as probiotics, biopreservatives and producers of nutraceuticals

DEPARTMENTAL RESPONSIBILITIES:

Research Committee
Graduate Committee
Awards Committee
Animal Science Research Report Committee

COLLEGE AND UNIVERSITY RESPONSIBILITIES:

Food Science Graduate Programs Coordinator
Regents Professor Committee
Biosafety Committee
University Biosafety Officer
Chair search committee for Dept. Head for Biochemistry and Molecular Biology

EXTRAMURAL FUNDING IN LAST FIVE YEARS (as PI):

- Lactobacilli to control *Salmonella* and *Escherichia coli* O157:H7 in fresh cut produce. (PI) 1999-2001. USDA/CSREES. \$69,691
- *Lactobacillus acidophilus* as probiotic to control salmonella in swine. (PI). 2000-2001. National Pork Board. \$11,000.
- Food Safety: Farm to Table. (Project Director). 2002-2004. USDA/CSREES. \$374,145.
- Food Safety: Farm to Table (Renewal) 2003-2005. USDA/CSREES. \$580,449.
- Food Safety: Farm to Table (Renewal) 2004-2006. USDA/CSREES. \$519,105.
- Food Safety: Farm to Table (Renewal) 2005-2007. USDA/CSREES. \$514,849.

MEMBERSHIP IN PROFESSIONAL AND HONORARY SOCIETIES:

- American Dairy Science Association (ADSA)

Board of Directors	1988-1991	Chairman of Board ADSA Fdn	1997-1998
Vice President	1990-1991	Senior Editor J. Dairy Sci.	2003-
President	1991-1992		
- Federation of American Societies of Food Animal Sciences
President 1993-1994
- American Society for Microbiology
- Institute of Food Technologists
Councilor 1990-

- American Academy of Microbiology
- Council for Agricultural Science & Technology
- Sigma Xi

HONORS AND AWARDS:

State:

- Outstanding Professor in the College of Agriculture at Okla State Univ by Alpha Zeta - 1978.
- Don M. Tyler Award. Department of Animal Science - 1984.
- Oklahoma Dairy Products Institute Distinguished Award - 1986.
- Sigma XI Lectureship Award. Oklahoma State University Chapter - 1987.
- Elmo Baumann Distinguished Professorship. Division of Agriculture at Okla State Univ - 1988.
- Burlington Northern Foundation Faculty Achievement Award Oklahoma State University - 1989.
- Eminent Faculty Award. Oklahoma State University – 2001
- Inventor Recognition Award. Oklahoma State University – 2005, 2006
- Senior Faculty Excellence in Research Award. OSU Chapter of Gamma Sigma Delta - 2007

National:

- Pfizer Award in Cheese and Cultured Dairy Products Research. ADSA - 1979.
- Dairy Research Foundation Award. ADSA - 1987.
- Elected as Fellow in American Academy of Microbiology - 1987
- Sanofi Bio-Industries Research Award. American Cultured Dairy Products Institute - 1991.
- Divisional Lecturer Food Microbiology Division, American Society for Microbiology - 1996.
- International Dairy Foods Association Research Award. ADSA - 1998.
- Selected as Fellow in the American Dairy Science Association - 1998.
- Milk Industry Foundation Teaching Award. ADSA – 1999.
- Distinguished Alumnus Award. Department of Food Science at N.C. State University – 2002.
- Award of Honor. ADSA – 2003.
- International Award for Distinguished Achievement in Agriculture. Gamma Sigma Delta - 2007

Extramural funding since 2000

- USDA. (1999-2001). “Lactobacilli to control *Salmonella* and *Escherichia coli* 0157:H7 in fresh cut produce.” (PI)
- National Pork Board. “*Lactobacillus acidophilus* as probiotic to control salmonella in swine”. (PI)
- Food Safety: Farm to Table. (2002-2004) USDA/CSREES Special Research Grant # 2002-06086. (Project Director)
- Food Safety: Farm to Table (renewal) (2003-2005) USDA/CSREES Special Research Grant #2003-06066. (Project Director).
- Develop Products and Examine the Economic Outlook and Marketing Channels for Regionally Produced Value-Added Fruit and Vegetable Products. (2001-2004) A consortium project including University of Arkansas, Oklahoma State University, and Mississippi State University. Section 401 of Agricultural Research, Extension, and Education Reform Act. (Participant)
- Biocatalysis of linoleic acid to conjugated linoleic acid. (2003-2004) USDA/CREES/NRI (Co-Project Director).
- Food Safety: Farm to Table (renewal)(2004-2006) USDA/CSREES Special Research Grant #2004-06076. (Project Director)
- Food Safety: Farm to Table (renewal) (2005-2007) USDA/CSREES Special Research Grant #2005-06074 (Project Director)

Publication in refereed journals for last 5 years

Senne, M.M. & S.E. Gilliland . 2003.

Antagonistic action of cells of *Lactobacillus delbrueckii* ssp. *lactis* toward pathogenic microorganisms in fresh meat systems. J. Food Protection. 66: 418-425

Harp, E.J. & S.E. Gilliland. 2003. Evaluation of *Lactobacillus delbrueckii* ssp. *lactis* as a biological control agent for pathogens on fresh cut vegetables stored at 7°C. J. Food Protection. 66 1013-1018.

- Alonso, L., E.P. Cuesta, & S.E. Gilliland. 2003. Production of conjugated linoleic acid by *Lactobacillus acidophilus* and *Lactobacillus casei* of human intestinal origin. *J. Dairy Sci.* 86: 1941-1946.
- Cuesta-Alonso, E.P. & S.E. Gilliland. 2003. Binding of bile salts by soluble fibers and its effect on deconjugation of glycocholate by *Lactobacillus acidophilus* and *Lactobacillus casei*. *J. Food Sci.* 68:2086-2089.
- Krehbiel, C.R., S. R. Rust, G. Zhang, & S. E. Gilliland. 2003. Bacterial direct-fed microbials in ruminant diets: Performance response and mode of action. *J. Anim. Sci.* 81 (E. Suppl. 2) E120-E132.
- Reilly, S.S. & S.E. Gilliland. 2003. Improved Culturing techniques for *Campylobacter*. *J. Food Sci.* 68:2752-2757.
- McComas, K.A. & S.E. Gilliland. 2003. Influence of whey protein hydrolysates on growth of probiotic organisms in yogurt. *J Food Sci.* 68:2090-2095.
- Senaratne, H. & S.E. Gilliland. 2003. Evaluation of cells of *Lactobacillus delbrueckii* ssp. *lactis* RM2-5 and *Pediococcus acidilactici* D3 as biopreservatives on fresh cut cantaloupe at 7°C. *J Food Qual.* 26: 475-488.
- Alonso, L., E.P. Cuesta & S.E. Gilliland. 2004. Gas Chromatographic method for analysis of conjugated linoleic acids isomers (c9t11, t10c12, and t9t11) in broth media as application in probiotic studies. *J.Chrom. Sci.* 42:167-170.
- Reilly, S.S., L. Alonso, & S.E. Gilliland. 2004. Influence of gaseous atmosphere on morphology and cellular fatty acid composition of *Campylobacter jejuni*. *J. Food Sci.* 69:145-150.
- Blagden, T.D. & S.E. Gilliland. 2005. Reduction of levels of volatile components associated with the “beany” flavor in soy milk by lactobacilli and streptococci. *J. Food Sci.* 70:186-189.
- Saide, J.A.O. & S.E. Gilliland. 2005. Antioxidative activity of lactobacilli measured by oxygen radical absorbance capacity. *J. Dairy Sci.* 88:1352-1357.
- Neugebauer, K.A. & S.E. Gilliland. 2005 Antagonistic action of cells of *Lactobacillus delbreuckii* ssp. *lactis* RM2-5 toward spoilage organisms in cottage cheese. *J.Dairy Sci.* 88:1335-1341.
- Xiao, Y., C.Yibin, Y.R. Yugendar, S.C. Fernando, O. Prskash, & S.E. Gilliland. 2006. Identification and Functional characterization of three chicken cathelicidins with potent antimicrobial activity. *J. Biol. Chem.* 218:2858-2867.
- Irmak, S., N.T. Dunford, & S.E. Gilliland. 2006. Biocatalysis of linoleic acid to conjugated linoleic acid. *Lipids.* 41:771-776.
- McCoy, S. & S.E. Gilliland. 2007. Isolation and characterization of *Lactobacillus* species having potential for use as probiotic cultures for dogs. *J. Food Sci.* 72:M94-M97.
- Cuesta- Alonso, E.P., S.E. Gilliland, & C.R. Krehbiel. 2007. Incidence and toxin production ability of *Escherichia coli* 0157:H7 isolated from cattle trucks. *J. Food Prot.* 70:2383-2385.
- Roman-Nunez, M., E.P. Cuesta-Alonso, & S.E. Gilliland. 2007. Influence of glycocholate on production of conjugated linoleic acid by cells of *Lactobacillus reuteri* 55739. *J. Food Sci.* 72:M140-M143.