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**EDUCATION:**

- 1981 Ph. D., Department of Biostatistics, University of North Carolina at Chapel Hill.
- 1977 B. S. in Applied Mathematics with High Honor, Georgia Institute of Technology.

**HONORS:**

- 2015 Special Act Award (individual) for service as a member of the NIEHS Animal Care and Use Committee.
- 2015 Special Act Award (group) for contribution to NTP's response to the Elk River spill.
- 2014 NIH Merit Award (group) for "sustained efforts and impactful contributions in assessing adverse health effects of exposure to inorganic arsenic"
- 2014 Special Act Award (group) for service as a member of the NIEHS Animal Care and Use Committee.
- 2013 NIH Merit Award (individual) for "her outstanding support to the NIEHS Animal Care and Use Committee, Animal Care Program, and Scientists"
- 2011 Elected Fellow of the American Statistical Association
- 2011 NIH Merit Award (group) for "diligent attention, cooperative contribution of expertise, and investment of time beyond normal duties for the establishment of reproductive database capabilities for the National Toxicology Program"
- 2011 NIH Merit Award (group) for "exceptional performance in initiation, implementation, and management of the Pulse (Organizational Climate) Survey and development of action plans to enhance work-life quality across the NIEHS Community"
- 2008 NIEHS Unsung Hero Award.
- 2007 NIH Merit Award (group) for "highly significant scientific and technical contributions to the analysis and reporting of the NTP studies of sodium dichromate dihydrate, a 'hexavalent chromium' compound"
- 1999 Finalist for a Senior University Teaching Excellence Award.
- 1977-1980 Graduate fellowship on a National Research Service Award.

Membership in the following honor societies:

Phi Eta Sigma, 1974; Phi Kappa Phi, 1976; Pi Mu Epsilon, 1977;  
Tau Beta Sigma, 1974; Sigma Xi, 1984.

## **PROFESSIONAL EXPERIENCE:**

2003-present	Staff Scientist, Biostatistics and Computational Biology Branch, National Institute of Environmental Health Sciences and Chief Statistician for the National Toxicology Program.
1986-2003	Professor (1999-2003), Associate Professor (1990-1999), Assistant Professor (1986-1990), Statistics Coordinator, 1998-2000, 2002-2003, Department of Mathematical Sciences, Division of Statistics, University of North Carolina at Greensboro.
2000-2001	Interim Head, Department of Mathematical Sciences, University of North Carolina at Greensboro.
2001-2003	Adjunct Professor, Department of Public Health Education, University of North Carolina at Greensboro.
1996-2002	Adjunct Associate Professor, Department of Anthropology, University of New Mexico.
1992-2002	Adjunct Associate Professor, Department of Biostatistics, University of North Carolina at Chapel Hill.
1990	Visiting Associate Professor, Division of Biostatistics and Epidemiology, Howard University Cancer Center.
1981-1986	Assistant Professor, Department of Biometry and Genetics, Louisiana State University Medical Center, New Orleans.
1980	Health Statistician, National Institute for Occupational Safety and Health.

## **PROFESSIONAL ACTIVITIES:**

2004-present	Contract Officer's Representative (COR)/COTR/Project Officer, NIEHS and NTP Statistical Support contracts
2004-present	Instructor, Biostatistics Short Course for NIEHS/DIR.
2004-2010	Member, NIEHS/NTP Scientific Review Group (formerly Review Group 1) for the <i>Report on Carcinogens</i> .
2008-present	Member, Clinical Advisory Committee, NIEHS/DIR.
2011-present	Statistical Consultant and Member, NIEHS Animal Care and Use Committee.
2011	Member, Canine Lifetime Health Project Toxicology Expert Panel, Morris Animal Foundation

2011 External Peer Reviewer for EPA of study reports on nickel sulfate hexahydrate

2012 External Peer Reviewer for EPA of study reports on ethyl tertiary butyl ether (ETBE)

2005-2007 Editorial Board member of the *Journal of the National Medical Association*.

2012-2015 Editorial Board member of *Toxicologic Pathology*.

Referee for: *Journal of the American Statistical Association, The American Statistician, Archives of Pathology and Laboratory Medicine, Journal of the American Medical Association, Journal of the National Medical Association, Journal of Counseling and Development, Journal of Statistical Education, Environmental Health Perspectives, Regulatory Toxicology and Pharmacology, Human and Experimental Toxicology, American Journal of Epidemiology, Comparative Medicine, Food and Chemical Toxicology, BMC Cancer, Toxicologic Pathology, Environmental and Molecular Mutagenesis, Environmental Science and Technology, Journal of the American Veterinary Medical Association, PLoS One, Journal of Intercultural Ethnopharmacology, Drug Design Development and Therapy, Phytomedicine, Journal of Ethnopharmacology, Physiology and Behavior, Research Integrity and Peer Review.*

## REFEREED PUBLICATIONS

### 2016

Churchill SR, Morgan DL, **Kissling GE**, Travlos GS, King-Herbert AP. Impact of environmental enrichment devices on NTP in vivo studies. *Toxicologic Pathology* 2016; 44:233-245.

Frawley R, Smith MJ, White KL, Elmore S, Herbert R, Moore R, Staska LM, Behl M, Hooth MJ, **Kissling GE**, Germolec DR. Immunotoxic effects of sodium tungstate dehydrate on female B6C3F1/N mice when administered in drinking water. *Journal of Immunotoxicology* 2016; in press.

Mozzachio K, Moore AB, **Kissling GE**, Dixon D. Immunoexpression of steroid hormone receptors and proliferation markers in uterine leiomyoma and normal myometrial tissues from the miniature pig, *Sus scrofa*. *Toxicologic Pathology* 2016; 44:450-457.

Resnik DB, Tyler AM, Black JR, **Kissling GE**. Authorship policies of scientific journals. *Journal of Medical Ethics* 2016; 42:199-202.

Resnik DB, Ariansen JL, Jamal J, **Kissling GE**. Institutional conflict of interest policies

of U.S. academic institutions. *Academic Medicine* 2016; 91:242-246.

Rider CV, Chan PC, Herbert RA, **Kissling GE**, Fomby LM, Hejtmancik MR, Witt K, Travlos G, Hatch GE, Kadiiska MB. Dermal exposure to cumene hydroperoxide: Assessing its toxic relevance and oxidant potential. *Toxicologic Pathology* 2016; 44:749-762.

Rodriguez K, Ungewitter E, Crespo Y, Liu C, Nicol B, **Kissling GE**, Yao HH-C. Effects of *in utero* exposure to arsenic during the second half of gestation on reproductive end points and metabolic parameters in female CD-1 mice. *Environmental Health Perspectives* 2016; 124:336-343.

Ryan KR, Cesta MF, Herbert R, Brix A, Cora M, Witt K, **Kissling GE**, Morgan DL. Comparative pulmonary toxicity of inhaled metalworking fluids in rats and mice. *Toxicology and Industrial Health* 2016; in press.

Sanders JM, Coulter SJ, Knudsen GA, Dunnick JK, **Kissling GE**, Birnbaum LS. Disruption of estrogen homeostasis as a mechanism for uterine toxicity of Wistar Han rats treated with tetrabromobisphenol A. *Toxicology and Applied Pharmacology* 2016; 298:31-39.

Stanko JP, **Kissling GE**, Chappell VA, Fenton SE. Differences in the rate of *in situ* mammary gland development and other developmental endpoints in three strains of rat commonly used in mammary carcinogenesis studies: Implications for timing of carcinogen exposure. *Toxicologic Pathology* 2016; in press.

Thayer KA, Taylor KW, Garantziotis S, Schurman S, **Kissling GE**, Hunt D, Herbert B, Church R, Jankowich R, Churchwell MI, Scheri RC, Birnbaum L, Bucher JR. Bisphenol A, bisphenol S and 4-hydroxyphenyl 4-isopropoxyphenylsulfone (BPSIP) in urine and blood of cashiers. *Environmental Health Perspectives* 2016; 124:437-444.

Willson CJ, Flake GP, Sills RC, **Kissling GE**, Cesta MF. Immunohistochemical expression of cyclin D1, cytokeratin 20, and uroplakin III in proliferative urinary bladder lesions induced by o-nitroanisole in F344 rats. *Veterinary Pathology* 2016; 53:682-690.

## 2015

Dunnick JK, Sanders JM, **Kissling GE**, Johnson C, Brown MH, Elmore SA. Environmental chemical exposure may contribute to uterine cancer development: Studies with tetrabromobisphenol A. *Toxicologic Pathology* 2015; 43:464-473.

Filgo AJ, Quist EM, Hoenerhoff MJ, Brix AE, **Kissling GE**, Fenton SE. Perfluorooctanoic acid (PFOA)-induced liver lesions in two strains of mice following developmental exposures: PPAR $\alpha$  is not required. *Toxicologic Pathology* 2015; 43:558-568.

French JE, Gatti DM, Morgan D, **Kissling GE**, Shockley KR, Knudsen GA, Shepherd K, Price HC, King D, Witt KL, Pedersen LC, Munger SC, Svenson KL, Churchill GA. Genetically diverse mice provide insight into benzene induced genotoxicity. *Environmental Health Perspectives* 2015; 123:237-245.

Gao X, Yu L, Moore AB, **Kissling GE**, Waalkes MP, Dixon D. Cadmium and proliferation of human uterine leiomyoma cells: A role for EGFR/MAPK pathways, but not classical estrogen receptor pathways. *Environmental Health Perspectives* 2015; 123:331-336.

Hong H-HL, Hoenerhoff MJ, Ton T-V, Herbert RA, **Kissling GE**, Hooth MJ, Behl MV, Witt KL, Smith-Roe SL, Sills RC, Pandiri AR. *Kras*, *Egfr*, and *Tp53* mutations in B6C3F1/N mouse and F344/NTac rat alveolar/bronchiolar carcinomas resulting from chronic inhalation exposure to cobalt metal. *Toxicologic Pathology* 2015; 43:872-882.

**Kissling GE**, Haseman JK, Zeiger E. Proper interpretation of chronic toxicity studies and their statistics: A critique of "Which level of evidence does the US National Toxicology Program provide? Statistical considerations using the Technical Report 578 on *Ginkgo biloba* as an example". *Toxicology Letters* 2015; 23:161-164.

Quist EM, Filgo AJ, Cummings CA, **Kissling GE**, Hoenerhoff MJ, Fenton SE. Novel mechanisms of liver effects in CD-1 mice prenatally exposed to low doses of perfluorooctanoic acid (PFOA). *Toxicologic Pathology* 2015; 43:546-557.

Ramot Y, Kodavanti UP, **Kissling GE**, Ledbetter AD, Nyska A. Clinical and pathological manifestation of cardiovascular disease in rat models: The influence of acute ozone exposure. *Inhalation Toxicology* 2015; 27:26-38.

Resnik DB, Neal T, Raymond A, **Kissling GE**. Research misconduct policies adopted by U.S. research institutions. *Accountability in Research: Policies and Quality Assurance* 2015; 22:14-21.

Resnik DB, Rasmussen LM, **Kissling GE**. An international study of research misconduct policies. *Accountability in Research: Policies and Quality Assurance* 2015; 22:249-266.

Resnik DB, Wager E, **Kissling GE**. Retraction policies of top scientific journals. *Journal of the Medical Library Association* 2015; 103:136-139.

Thayer KA, Doerge DR, Hunt D, Schurman SH, Twaddle NC, Churchwell MI, Garantzotis S, **Kissling GE**, Easterling MR, Bucher JR, Birnbaum LS. Pharmacokinetics of bisphenol A in humans following a single oral administration. *Environment International* 2015; 83:107-115.

Yucesoy B, **Kissling GE**, Johnson VJ, Lummus ZL, Fluharty K, Gautrin D, Cartier A, Boulet L-P, Sastre J, Quirce S, Tarlo SM, Cruz M-J, Munoz X, Luster MI, Bernstein DI.

N-acetyltransferase-2 genotypes are associated with diisocyanate-induced asthma. *Journal of Occupational and Environmental Medicine* 2015; 57:1331-1336.

## 2014

Brodie B, Pokharel Y, Garg A, **Kissling G**, Hansen C, Milks S, Cooper M, McAlhany C, Stuckey T. Very late hazard with stenting versus balloon angioplasty for ST-elevation myocardial infarction: a 16-year single-center experience. *Journal of Interventional Cardiology* 2014; 27:21-28.

Ferguson SA, Law CD, **Kissling GE**. Developmental treatment with ethinyl estradiol, but not bisphenol A, causes alterations in sexually dimorphic behaviors in male and female Sprague-Dawley rats. *Toxicological Sciences* 2014; 140:374-392.

Garg A, Brodie BR, Stuckey TD, Garberich RF, Tobbia P, Hansen C, **Kissling G**, Kadakia H, Lips D, Henry TD. New generation drug-eluting stents for ST-elevation myocardial infarction: a new paradigm for safety. *Catheterization and Cardiovascular Interventions* 2014; 84:955-962.

Jayes FL, Burns KA, Rodriguez KF, **Kissling GE**, Korach KS. The naturally occurring luteinizing hormone surge is diminished in mice lacking estrogen receptor beta in the ovary. *Biology of Reproduction* 2014; 90:24.

Livingston DP, Tuong TD, **Kissling G**, Cullen JM. Visualizing surface area and volumes of lumens in 3 dimensions using images from histological sections. *Journal of Microscopy* 2014; 256:190-196.

Parks CG, Miller FW, Satoh M, Chan EKL, Andrushchenko Z, Birnbaum LS, Jusko TA, **Kissling GE**, Patel MD, Rose KM, Weinberg C, Zeldin DC, Sandler D. Reproductive and hormonal risk factors for antinuclear antibodies (ANA) in a representative sample of U.S. women. *Cancer Epidemiology, Biomarkers and Prevention* 2014; 23:2492-2502.

Ray M, Shockley K, **Kissling G**. Minimizing systematic errors in quantitative high throughput screening data using standardization, background subtraction, and non-parametric regression. *Journal of Experimental Secondary Science* 2014; 3(2): [www.jes2s.com/may2014/hts.html](http://www.jes2s.com/may2014/hts.html) .

Resnik DB, Parasidis E, Carroll K, Evans J, Pike E, **Kissling GE**. Research-related injury compensation policies of U.S. research institutions. *IRB: Ethics and Human Research* 2014; 36:12-19.

Resnik DB, Neal T, Raymond A, **Kissling GE**. Research misconduct definitions adopted by U.S. research institutions. *Accountability in Research: Policies and Quality Assurance* 2014; 22:14-21.

Surh I, Rao DB, Cesta M, Hébert CD, Mann JF, Cunny H, **Kissling GE**, Malarkey D, Chhabra RS. Species and gender differences in the carcinogenic activity of trimethololpropane triacrylate in rats and mice. *Food and Chemical Toxicology* 2014; 66:254-261.

Waalkes MP, Qu W, Tokar EJ, **Kissling GE**, Dixon D. Lung tumors in mice induced by “whole life” inorganic arsenic exposure at human relevant doses. *Archives of Toxicology* 2014; 88:1619-1629.

Wang X, Chrysovergis K, Kosak J, **Kissling GE**, Streicker M, Moser G, Li R, Eling TE. hNAG-1 increases lifespan by regulating energy metabolism and insulin/IGF-1/mTOR signaling. *Aging* 2014; 6:690-704.

## 2013

Cora MC, Neel JA, Grindem CB, **Kissling GE**, Hess PR. Comparison of automated versus manual neutrophil counts for the detection of cellular abnormalities in dogs receiving chemotherapy: 50 cases (May to June 2008). *Journal of the American Veterinary Medical Association* 2013; 242:1539-1543.

Flake GP, Moore AB, Sutton D, Horton J, Wicker B, Walmer D, Robboy SJ, Dixon D, **Kissling GE**. The natural history of uterine leiomyomas: Light and electron microscopic studies of fibroid phases, interstitial ischemia, ianosis, and reclamation. *Obstetrics and Gynecology International* 2013; 2013:52836.

Flake GP, Moore AB, Flagler N, Wicker B, **Kissling GE**, Robboy S, Dixon D. The natural history of uterine leiomyomas: Morphometric concordance with concepts of interstitial ischemia and ianonsis. *Obstetrics and Gynecology International* 2013; 2013:285103.

George MD, Wine RN, Lackford B, **Kissling GE**, Akiyama SK, Olden K, Roberts JD. p38 mitogen-activated protein kinase interacts with vinculin at focal adhesions during fatty acid-stimulated cell adhesion. *Biochemistry and Cell Biology* 2013; 91:404-418.

Kim J-M, Kosak J, Kim JK, **Kissling G**, Germolec D, Zeldin DC, Bradbury JA, Baek SJ, Eling T. NAG-1/Gdf15 transgenic mouse has less white adipose tissue and a reduced inflammatory response. *Mediators in Inflammation* 2013; 2013:641851-641861.

**Kissling GE**, Grogan DW, Drake JW. Confounders of mutation-rate estimators: Selection and phenotypic lag in *Thermus thermophilus*. *Mutation Research – Fundamental and Molecular Mechanisms of Mutagenesis* 2013; 749:16-20.

Longnecker MP, Harbak K, **Kissling GE**, Hoppin JA, Eggesbo M, Jusko TA, Eide J, Koch HM. The concentration of bisphenol A in urine is affected by specimen collection, a preservative, and handling. *Environmental Research* 2013; 126:211-214.

Masaoka A, Gassman NR, Horton JK, Kedar PS, Witt KL, Hobbs CA, **Kissling GE**, Tano K, Asagoshi K, Wilson SH. Interaction between DNA polymerase  $\beta$  and BRCA1. *PLoS One* 2013; 8(6):e66801.

Nichols HB, Baird DD, DeRoo LA, **Kissling GE**, Sandler DP. Tubal ligation in relation to menopausal symptoms and breast cancer risk. *British Journal of Cancer* 2013; 109:1291-1295.

Rider CV, Nyska A, Cora MC, **Kissling GE**, Smith C, Travlos GS, Hejtmancik MR, Fomby LM, Colleton CA, Ryan MJ, Kooistra L, Morrison JP, Chan PC. Toxicity and carcinogenicity studies of *Ginkgo biloba* extract in rat and mouse: Liver, thyroid and nose as targets. *Toxicologic Pathology* 2013; 42: 830-843.

Thigpen JE, Setchell KDR, **Kissling GE**, Locklear J, Caviness GF, Whiteside T, Belcher SM, Brown NM, Collins BJ, Lih FB, Tomer KB, Padilla-Banks E, Camacho L, Adsit F, Grant M, Forsythe D. The estrogenic content of rodent diets, bedding, cages and water bottles and its impact on bisphenol A studies. *Journal of the American Association for Laboratory Animal Science* 2013; 52:130-141.

Wallace KB, **Kissling GE**, Melnick RL, Blystone CR. Structure-activity relationships for perfluoroalkane-induced *in vitro* interference with rat liver mitochondrial respiration. *Toxicology Letters* 2013; 222:257-264.

Witt KL, Stout MD, Herbert RA, **Kissling GE**, Collins BJ, Hooth MJ. Mechanistic insights from the NTP studies of chromium. *Toxicologic Pathology* 2013; 41:326-342.

## 2012

Brodie B, Pokharel Y, Garg A, **Kissling G**, Hansen C, Milks S, Cooper M, McAlhany C, Stuckey T. Predictors of early, late, and very late stent thrombosis after primary percutaneous coronary intervention with bare-metal and drug-eluting stents for ST-segment elevation myocardial infarction. *Journal of the American College of Cardiology: Cardiovascular Interventions* 2012; 5:1043-1051.

Burd CJ, Ward JM, Davis VJ, **Kissling GE**, Phadke D, Shah RR, Archer TK. Analysis of chromatin dynamics during glucocorticoid receptor activation. *Molecular and Cellular Biology* 2012; 32:1805-1817.

Koivisto C, Flake GP, Kolenda-Roberts H, Masinde T, **Kissling GE**, Sills RC, Hoenerhoff MJ. Immunohistochemical investigation of F344/N rat islet cell tumors from National Toxicology Program studies. *Toxicologic Pathology* 2012; 40:751-763.

Recio L, **Kissling GE**, Hobbs C, Witt K. Comparison of comet assay dose-response for ethyl methanesulfonate using freshly prepared versus cryopreserved tissues. *Environmental and Molecular Mutagenesis* 2012; 53:101-113.

Richter K, Burch L, Chao F, Henke D, Jiang C, Daly J, Zhao M-L, **Kissling G**, Diaz M. Altered pattern of immunoglobulin hypermutation in mice deficient in SLIP-GC protein. *Journal of Biological Chemistry* 2012; 287:31856-31865.

Yu L, Moore A, Castro L, Gao X, Huynh H-L, Klippel M, Flagler N, Lu Y, **Kissling GE**, Dixon D. Estrogen regulates MAPK-related genes through genomic and nongenomic interactions between IGF-I receptor tyrosine kinase and estrogen receptor-alpha signaling pathways in human uterine leiomyoma cells. *Journal of Signal Transduction* 2012; 2012:204236.

Yucesoy B, Johnson VJ, Lummus ZL, **Kissling GE**, Fluharty K, Gautrin D, Malo JL, Cartier A, Boulet LP, Sastre J, Quirce S, Germolec DR, Tarlo SM, Cruz MJ, Munoz X, Luster MI, Bernstein DI. Genetic variants in antioxidant genes are associated with diisocyanate-induced asthma. *Toxicological Sciences* 2012; 129:166-173.

## 2011

Brodie B, Pokharel Y, Fleishman N, Bensimhon A, **Kissling G**, Hansen C, Milks S, Cooper M, McAlhany C, Stuckey T. Very late stent thrombosis after primary percutaneous coronary intervention with bare metal stents and drug-eluting stents for ST-elevation myocardial infarction: A 15 year single center experience. *Journal of the American College of Cardiology: Cardiovascular Interventions* 2011; 4:30-38.

Chan PC, Peckham JC, Malarkey DE, **Kissling GE**, Travlos GS, Fu PP. Two-year toxicity and carcinogenicity studies of *Panax ginseng* in Fischer 344 rats and B6C3F1 mice. *American Journal of Chinese Medicine* 2011; 39:779-788.

Clark AB, Lujan SA, **Kissling GE**, Kunkel TA. Mismatch repair-independent tandem repeat sequence instability resulting from ribonucleotide incorporation during DNA polymerase  $\epsilon$ . *DNA Repair* 2011; 10:476-482.

Dunnick JK, Singh B, Nyska A, Peckham J, **Kissling GE**, Sanders JM. Investigating the potential for toxicity from long-term use of the herbal products, Goldenseal and Milk thistle. *Toxicologic Pathology* 2011; 39:398-409.

Hill GD, Moore AB, **Kissling GE**, Flagler ND, Ney E, Cline JM, Dixon D. Effects of hormonally active agents on steroid hormone receptor expression and cell proliferation in the myometrium of ovariectomized macaques. *Toxicologic Pathology* 2011; 39:508-515.

Morgan DL, Nyska A, Harbo SJ, Grumbein SL, Dill JA, Roycroft JH, **Kissling GE**, Cesta MF. Multisite carcinogenicity and respiratory toxicity of inhaled 1-bromopropane in rats and mice. *Toxicologic Pathology* 2011; 39:938-948.

Travlos GS, Hard GC, Betz L, **Kissling GE**. Chronic progressive nephropathy in male F344 rats in 90-day toxicity studies: its occurrence, and association with renal tubule

tumors in subsequent 2-year bioassays. *Toxicologic Pathology* 2011; 39:381-389.

Trempus CS, Wei S-J, Humble MM, Dang H, Bortner CD, Sifre M, **Kissling GE**, Sunman JA, Akiyama SK, Roberts JD, Tucker CJ, Chun K-S, Tennant RW, Langenbach R. A novel role for the T-box transcription factor *Tbx1* as a negative regulator of tumor cell growth in mice. *Molecular Carcinogenesis* 2011; 50:981-991.

Tubbs JT, **Kissling GE**, Travlos GS, Goulding DR, Clark JA, King-Herbert AP, Blankenship-Paris TL. Effects of buprenorphine, meloxicam, and flunixin meglumine as postoperative analgesia in mice. *Journal of the American Association for Laboratory Animal Science* 2011; 50:185-191.

Zegre-Cannon C, **Kissling GE**, Goulding DR, King-Herbert AP, Blankenship-Paris T. Analgesic effects of tramadol, carprofen, or multimodal analgesia in rats undergoing ventral laparotomy. *Laboratory Animal* 2011; 40:85-93.

## 2010

Blystone CR, **Kissling GE**, Bishop JB, Chapin RE, Wolfe GW, Foster PMD. Determination of the di-(2-ethylhexyl) phthalate (DEHP) NOAEL reproductive development in the rat: Importance of the retention of extra animals to adulthood. *Toxicological Sciences* 2010; 116:640-646.

Boyd WA, Smith MV, **Kissling GE**, Freedman JH. Medium and high throughput screening of neurotoxicants using *C. elegans*. *Neurotoxicology and Teratology* 2010; 32:68-73.

Chan P-C, Ramot Y, Malarkey DE, Blackshear P, **Kissling GE**, Travlos G, Nyska A. Fourteen-week toxicity study of green tea extract in rats and mice. *Toxicologic Pathology* 2010; 38: 1070-1084.

Collins BJ, Stout MD, Levine KE, **Kissling GE**, Fennell T, Pritchard J, Fernando R, Burka LT, Hooth MJ. Exposure to hexavalent chromium resulted in significantly higher tissue chromium burden compared to trivalent chromium following similar oral doses to male F344/N rats and female B6C3F1 mice. *Toxicological Sciences* 2010; 118:368-379.

Ding H, Zhang L, Wu B, Wang Q, Hui R, Wang W, Dackor RT, **Kissling GE**, Zeldin DC, Wang DW. Association of common variants of CYP4A11 and CYP4F2 with stroke in the Chinese Han population. *Pharmacogenetics and Genomics* 2010; 20:187-194.

Ghanayem BI, Bai R, **Kissling GE**, Travlos G, Hoffler U. Diet-induced obesity in male mice is associated with reduced fertility and potentiation of acrylamide-induced reproductive toxicity. *Biology of Reproduction* 2010; 82:96-104.

Hewitt SC, **Kissling GE**, Fieselman K, Jayes F, Gerrish K, Korach KS. Biological and biochemical consequences of global deletion of exon 3 from the ER $\alpha$  gene. *FASEB Journal* 2010; 24:4660-4667.

Kim Y-S, Harry GJ, Kang HS, Goulding D, Wine R, **Kissling GE**, Liao G, Jetten AM. Altered cerebellar development in TAK1/TR4 null mice is associated with deficits in GLAST(+) glia, alterations in social behavior, motor learning, startle reactivity and microglia. *Cerebellum* 2010; 9:310-323.

Moore AB, Yu L, Swartz CD, Zheng X, Wang L, Castro L, **Kissling GE**, Walmer DK, Robboy SJ, Dixon D. Human uterine leiomyoma-derived fibroblasts stimulate uterine leiomyoma cell proliferation and collagen type I production with activation of RTKs and TGF beta receptor signaling in coculture. *Cell Communication and Signaling* 2010, 8:10.

Nick McElhinney SA, **Kissling GE**, Kunkel TA. Differential correction of lagging strand replication errors made by DNA polymerases alpha and delta. *Proceedings of the National Academy of Sciences* 2010; 107:21070-21075.

Poltoratsky V, Heacock M, **Kissling GE**, Prasad R, Wilson SH. Mutagenesis dependent upon the combination of activation-induced deaminase expression and a double-strand break. *Molecular Immunology* 2010; 48:164-170.

Rana R, Chen Y, Ferguson S, **Kissling GE**, Surapureddi S, Goldstein JA. Hepatocyte nuclear factor 4 $\alpha$  regulates rifampicin-mediated induction of CYP2C genes in primary cultures of human hepatocytes. *Drug Metabolism and Disposition* 2010; 38:591-599.

Singh BP, Nyska A, **Kissling GE**, Warren L, Johansson SL, Malarkey DE, Hooth MJ. Urethral carcinoma and hyperplasia in male and female B6C3F1 mice treated with 3,3',4,4'-tetrachloroazobenzene (TCAB). *Toxicologic Pathology* 2010; 38: 372-381.

Whiteside TE, Thigpen JE, **Kissling GE**, Grant MG, Forsythe DB. Endotoxin, coliforms and dust levels in various types of rodent bedding. *Journal of the American Association for Animal Laboratory Science* 2010; 49:184-189.

Witt KL, Malarkey DE, Hobbs CA, Davis J, **Kissling GE**, Caspary W, Travlos G, Recio L. No increases in biomarkers of genetic damage or pathological changes in heart and brain tissues in male rats administered methylphenidate hydrochloride (Ritalin) for 28 days. *Environmental and Molecular Mutagenesis* 2010; 51:80-88.

Yoshizawa K, Walker NJ, **Kissling G**, Jokinen MP, Brix AE, Sells DM, Nyska A., Wyde ME. Thyroid follicular lesions induced by oral treatment for two years with 2,3,7,8-tetrachlorodi-benzo-*p*-dioxin and dioxin-like compounds in female Harlan Sprague-Dawley rats. *Toxicologic Pathology* 2010; 38:1037-1050.

Zegre-Cannon C, **Kissling GE**, Hoenerhoff MJ, King-Herbert AP, Blankenship-Paris T. Evaluation of dosages and routes of administration of tramadol analgesia in rats using hot plate and tail flick tests. *Laboratory Animal* 2010; 39:342-351.

## 2009

Boyd WA, Smith MV, **Kissling GE**, Rice JR, Snyder DW, Portier CJ, Freedman JH. Application of a mathematical model to describe the effects of chlorpyrifos on *Caenorhabditis elegans* development. *PLoS ONE* 2009; 4(9):e7024.

Cullen JM, Brown DL, **Kissling GE**, Foley JF, Rizzo J, Marion PL, Parron VI, French JE. Aflatoxin B1 and/or hepatitis B virus induced tumor spectrum in a genetically-engineered hepatitis B virus expression and Trp53 haploinsufficient mouse model system for hepatocarcinogenesis. *Toxicological Pathology* 2009; 37:333-342.

Hewitt SC, O'Brien JE, Jameson JL, **Kissling GE**, Korach KS. Selective disruption of ER $\alpha$  DNA binding activity alters uterine biological and gene responsiveness to estradiol and Wnt/ $\beta$ -catenin signaling. *Molecular Endocrinology* 2009; 23:2111-2116.

Jefferson W, Doerge D, Padilla-Banks E, Woodling KA, **Kissling GE**, Newbold R. Oral exposure to genistein, the glycosylated form of genistein, during neonatal life causes adverse effects on the female reproductive system. *Environmental Health Perspectives* 2009; 117:1883-1889.

**Kissling GE**, Malarkey DE, Vallant MK, Johnson JD, Hejtmancik MR, Herbert RA, Boorman GA. Evaluation of dichloroacetic acid for carcinogenicity in genetically modified Tg.AC and p53 haploinsufficient mice. *Toxicological Sciences* 2009; 107:19-26.

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## TECHNICAL REPORTS<sup>1</sup>

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### 2015

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<sup>1</sup> I contributed to the NTP technical reports as part of a team. Reports were externally reviewed in the year indicated. All NTP reports are published by the U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, Research Triangle Park, NC.

## **2014**

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National Toxicology Program (2011). Toxicity studies of 2,4-decadienal administered by gavage to F344/N rats and B6C3F1 mice. TOX 76. NIH Publication No. 11-5969.

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## **2010**

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## **2009**

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National Toxicology Program (2009). Toxicology and carcinogenesis studies of 1-bromopropane in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 564. NIH Publication No. 10-5906.

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National Toxicology Program (2007). Toxicity studies of dimethylaminopropyl chloride, hydrochloride administered by gavage to F344/N rats and B6C3F1 mice. TOX 75. NIH Publication No. 07-5965.

National Toxicology Program (2007). Toxicology studies of dichloroacetic acid in genetically modified (FVB Tg.AC hemizygous) mice (dermal and drinking water studies) and carcinogenicity studies of dichloroacetic acid in genetically modified [B6.129-Trp53tm1Brd(N5) haploinsufficient] mice (drinking water studies). GMM Series No. 11.

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National Toxicology Program (2006). Toxicology and carcinogenesis studies of  $\alpha$ -methylstyrene in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 543. NIH Publication No. 08-4474.

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National Toxicology Program (2004). Toxicology and carcinogenesis studies of 2,2-bis(bromomethyl)-1,3-propanediol, nitromethane, and 1,2,3-trichloropropane in guppies (*Poecilia reticulata*) and medaka (*Oryzias latipes*). Technical Report Series No. 528.

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National Toxicology Program (2004). Toxicology and carcinogenesis studies of a binary mixture of 3,3',4,4',5-pentachlorobiphenyl (PCB 126) and 2,2',4,4',5,5'-hexachlorobiphenyl (PCB 153) in female Harlan Sprague-Dawley rats (gavage studies). Technical Report Series No. 530. NIH Publication No. 06-4466.

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National Toxicology Program (2004). Toxicology and carcinogenesis studies of benzophenone in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 533. NIH Publication No. 06-4469.

### **Prior to employment at NIEHS**

Sandford MK, Bogdan G, **Kissling GE**. A view to the past: An investigation of the bioarchaeology and paleopathology at the Tutu Site, St. Thomas, United States Virgin Islands. Site report submitted to the Senior Archaeologist, Government of the Virgin Islands, St. Thomas, 1997.

**Kissling GE**. A generalized model for the analysis of nonindependent events, *Institute of Statistics Mimeo Series No. 1357*, Chapel Hill, North Carolina, 1981.

### **NONREFEREED PAPERS**

**Kissling GE**, Dertinger S, Hayashi M, MacGregor JT. Sensitivity of the erythrocyte micronucleus assay: dependence on number of cells scored and inter-animal variability. White paper for the International Conference on Harmonisation. 2007.

### **Prior to employment at NIEHS**

Love WP, **Kissling GE**, Kilgariff L. Teaching limits of functions in college calculus classes. *Abstractions* 1988; p.5.

Edwards JC, Marier RL, **Kissling GE**. Improving clinical teaching for residents: Workshops and seminars. *Professions Education Researcher Notes* 1985; 7(2):3-4.

### INVITED PRESENTATIONS

\* Presenter

Burggraf V\* and **Kissling GE\***. Discharge planning in nursing homes. Invited talk, Sigma Theta Tau, New Orleans, Louisiana, February 1985.

**Kissling GE\***. Using statistical consultants. Invited talk, Graduate Nursing Program, School of Nursing, LSUMC, New Orleans, Louisiana, May 1985.

**Kissling GE\***. A growth curve model for observations made at arbitrary times. Invited talk, Department of Experimental Statistics, Louisiana State University, Baton Rouge, Louisiana, March 1986.

Sandford MK\* and **Kissling GE**. Neural tube defects in Acadiana: Biological anthropology and epidemiologic research. Invited talk, American Association of Physical Anthropologists Annual Meeting, Las Vegas, Nevada, April 4, 1992. Abstract in *American Journal of Physical Anthropology, Supplement 14* (1992) p. 145.

**Kissling GE\***. Hands-on projects in a college-level statistics course. Invited talk, Central Region Mathematics Conference of the North Carolina Council of Teachers of Mathematics, Durham, North Carolina, March 5, 1993.

**Kissling GE\***, Hostetter SC\*, Riley KK\*. Multiplying women in mathematics: Interventions, incentives and resources. Invited roundtable discussion, American Statistical Association Meeting, San Francisco, California, August 8 - 12, 1993. Abstract in the *1993 Proceedings of the Social Statistics Section of ASA*, p. 112-117.

Sandford MK\* and **Kissling GE\***. Out of the ashes: Future directions for elemental analyses through multivariate statistics. Invited paper, Canadian Association for Physical Anthropology Meeting, St. John's Newfoundland, Canada, October 21 - 23, 1993.

Sandford MK\* and **Kissling GE**. The chemistry of mummified hair: New approaches to interpretation. Invited paper, Symposium on Medicine and Diet: The Mummy's Perspective, II World Congress on Mummy Studies, Cartagena, Colombia, February 6 - 10, 1995. Abstract in *II World Congress on Mummy Studies II Congreso Internacional de Estudios Sobre Momias Book of Abstracts*, session 6.13.

Sandford MK\* and **Kissling GE**. Advances in analysis of mummified hair samples, Invited presentation, Symposium on Ancient Mummies and Modern Medical Technology at the 1994 annual meeting of the Paleopathology Association, Denver, CO, April 30, 1994.

Weaver DS\*, Sandford MK, Bogdan G, **Kissling GE**. Treponematoses in the prehistoric Caribbean, North Carolina coast and Kentucky: Paleoepidemiological and evolutionary perspectives. Invited paper, Sixty-seventh annual meeting of the American Association of Physical Anthropologists, Salt Lake City, UT, March 31 - April 4, 1998. Abstract in the *American Journal of Physical Anthropology, Supplement 26*, 1998, p. 227.

Sandford MK\*, Bogdan G, **Kissling GE**, Weaver DS. Treponematoses in the prehistoric Caribbean, North Carolina coast and Kentucky: Diagnostic considerations. Invited paper, Sixty-seventh annual meeting of the American Association of Physical Anthropologists, Salt Lake City, UT, March 31 - April 4, 1998. Abstract in the *American Journal of Physical Anthropology, Supplement 26*, 1998, p. 194.

Lea SM\*, **Kissling GE**, O'Dell TJ, Lybanon M. Water depth determination from wave crest images. Invited paper, International Symposium on Intelligent Signal Processing and Communication Systems, Nashville, TN, November 20-21, 2001. Published in *Proceedings of IEEE Symposium on Intelligent Signal Processing and Communication Systems*, S. Suthaharan and B. Qui, eds., 219 – 223, 2001.

Peddada S, Dinse GE, **Kissling GE\***. Use of historical controls in survival-adjusted quantal response tests for comparing tumor incidence rates. Invited talk, ENAR Biometric Society meeting, Austin TX, March 20-23, 2005.

**Kissling GE\***. Statistical methods for NTP 2-year bioassays: Past, present and future. Invited talk, CL Davis Foundation meeting, Nutley, NJ, November 11, 2005.

**Kissling GE\***. Statistical analysis for short and long term carcinogenicity studies. Invited talk, continuing education course at the American College of Toxicology 31<sup>st</sup> annual meeting, Baltimore, MD, November 7, 2010.

**Kissling GE\***. Biostatistics for laboratory animal veterinarians. Invited talk, 2012 North Carolina Workshop in Laboratory Animal Medicine. Raleigh, NC, May 17-20, 2012.

**Kissling GE\***. Biostatistics for laboratory animal veterinarians. Invited talk, 2016 North Carolina Workshop in Laboratory Animal Medicine. Raleigh, NC, May 12-13, 2016.

## GRANTS AND CONTRACTS

### Internal grants and contracts

- Pruritus in kidney dialysis patients, LSUMC Department of Biochemistry, \$400, 1982.
- The effect of teaching and a medication schedule on the incidence and type of self-medication errors in the elderly, LSUMC School of Nursing, \$700, 1982.
- Comparison of epikeratophakia or penetrating keratoplasty for keratoconus, LSUMC Department of Ophthalmology, \$363, 1982.
- Evolutionary considerations of primate brains, LSUMC Department of Anatomy, \$500, 1983.
- Timolol study for treatment of glaucoma, Oschner Clinics and LSUMC Department of Ophthalmology, \$175, 1984.
- Teaching services, for the LSUMC School of Nursing, \$6,000, 1985-86.
- Drug treatments for epithelial abrasion, LSUMC Department of Ophthalmology, \$100, 1986.
- Sizing of military uniforms, UNCG Department of Clothing and Textiles, \$358, 1986.
- Bodybuilders study, UNCG Department of Food and Nutrition, \$144, 1988.
- Multivariate growth models for hypertension, UNCG Excellence Foundation Faculty Summer Research Grant, \$2,500, 1987.
- Empirical Bayes estimation techniques Research Assignment granted by UNCG to work at the Howard University Cancer Center for one semester, 1990.
- Request for color printer and slide-maker, (jointly with M. K. Sandford, J. Mountjoy, J. Patton, S. Lea) UNCG College of Arts and Sciences Dean's Office, \$8,900, 1994.
- Prosecutorial discretion: A contextual analysis, (jointly with J. Humphrey) UNCG Research Council, \$5,530, 1994.
- Validity and reliability of measurements made on computer images UNCG Summer Research Grant program, \$4,000, 1996.
- An empirical Bayes approach to analyzing spatial and temporal variation Research Assignment granted by UNCG to work at the University of New Mexico for one year, 1996-97.
- Statistical consulting for medical research, UNCG Undergraduate Research Assistantship, \$1,500, 1997-98.
- Statistical consulting for medical research, UNCG Undergraduate Research Assistantship, \$1,500, 1998-99.
- Classification and decision tree analysis in cardiology, UNCG Undergraduate Research Assistantship, \$1,500, 1998-99.
- Curriculum planning for NSF grant, (jointly with M. K. Sandford, E. M. Jackson, G. Bogdan) UNCG Advancement of Curriculum and Teaching grant, \$3,000, 1998.
- Received (with MK Sandford) \$1000 from the UNCG Kohler Fund to bring in an international lecturer for the NSF-REU program.
- Received (with MK Sandford) \$500 from the UNCG Women in Science Initiative to bring in a nationally recognized lecturer for the NSF-REU program.

Image and reality: interdisciplinary research involving digital image data, (jointly with MK Sandford, RS Stine, SM Lea) submitted to the External Proposal Development Incentive Program, Provost's Office, 2003.

### External grants and contracts

Statistical consultant on Discharge planning in nursing homes, (PI: V. Burggraf) American Association of University Women, \$2,200, 1984.

Statistical consultant on Improving clinical instruction: Focus on graduate medical education, (PI: J. C. Edwards) National Fund for Medical Education, \$19,876, 1984.

Statistical consultant on Relationship between serum estradiol levels and improvement of endometriosis, Fertility Institute of New Orleans, \$75, 1984.

Statistical consultant on Predicting depth of sperm penetration in bovine cervical mucous, Fertility Institute of New Orleans, \$750, 1984-85.

Statistical consultant on Predicting the ability of sperm to attach to eggs, Fertility Institute of New Orleans, \$850, 1984-85.

Senior Personnel on National Science Foundation Young Scholars Project TRIUMPH: Techniques of Research: Investigating and understanding mathematics and physics (early alert), (PIs: S. Lea and R. Muir) National Science Foundation, \$70,100, 1989.

Co-PI on The effects of sex hormones and bone remodeling on the hair and bone of the Cynomolgus Macaque (*M. fascicularis*), (PIs: M. K. Sandford and D. Weaver) UNC Institute of Nutrition, \$7,500, 1993.

Several private consulting projects, Creative Computing Consultants/University Research Associates, Greensboro/Jamestown, NC, 1988 - 2003.

Numerous miscellaneous statistical consulting for Moses Cone Hospital: Internal Medicine Training Program, Pharmacy, Rehabilitation Therapy, Cardiology, Greensboro, NC, 1988 - 2003.

Subcontract for statistical support from the Greensboro AHEC for evaluating delivery of nebulized and metered dose inhalers in an *in vitro* neonatal lung system, Glaxo Pharmaceuticals, subcontract from the Greensboro AHEC, \$500, 1992.

Expert witness on Estimation of percentages of jury pool having knowledge of murders and presumption of guilt of the defendants, Attorney in Thomasville, NC, 1993.

Statistical review of briefs on drug testing results for a court martial, Attorney in Florida, *pro bono*, 1995.

Short course on Meta-analysis, Greensboro AHEC, \$500, 1995.

Statistical review of scientific literature in a medical malpractice suit, Attorneys for Moses Cone Hospital, *pro bono*, 1996.

Expert witness for Estimation of losses in an international credit card fraud case, Attorneys in Santa Monica, CA and Greensboro, NC, 1995-96.

Short course on Logistic regression, Greensboro AHEC, \$500, 1996.

Short course on Survival analysis, Greensboro AHEC, \$500, 1997.

- Co-PI on Preparing students for science careers: Research experience and socialization through osteological analyses and scientific visualization of human skeletal material, (PI: M. K. Sandford) National Science Foundation, Research Experiences for Undergraduates Program, \$171,000, 1998-2001.
- Co-PI on Computer science and mathematics scholarship program, (PI, P. Duvall), National Science Foundation, \$220,000; 2000-2002. Renewal, \$275,000; 2002-2004.
- Statistical consultant on Food purchase behavior among older adults with diabetes,(PI, C. Miller) National Institutes of Health AREA, \$101,033; 1999-2001.
- Statistical consultant on Knowledge and use of dietary supplements among women of childbearing age, (PI, C. Miller) US Department of Agriculture, \$49,988; 1999-2001.
- Co-PI on Correlates of local public health system performance, (PI, K. Lovelace) Centers for Disease Control, \$724,172, approved, funding pending, 2001-2004.

## COURSES TAUGHT

Undergraduate/

Graduate                      Course

LSUMC:

- U     Biometry 3115 - Basic Statistics
- G     Biometry 250 - Multivariate Methods
- G     Biometry 282 - Advanced Topics in Biometry (Multivariate Methods)
- G     Biometry 283 - Advanced Topics in Probability and Estimation Theory
- G     Biometry 284 - Advanced Topics in Significance and Hypothesis Testing
- G     Biometry 296 - Statistical Consulting in the Health Sciences
- G     Biometry 298 - Seminar in Biometry (Coordinator)
- G     Biometry 300 - Thesis Research

UNCG:

- U     Statistics 108 - Elementary Introduction to Probability and Statistics
- U     Statistics 271W - Fundamental Concepts of Statistics (Writing Intensive)
- U     Statistics 351 (343) - Probability
- U     Statistics 352 - Statistical Inference
- U&G   Statistics 573 - Theory of Linear Regression (Writing Intensive)
- U&G   Statistics 574 - Theory of the Analysis of Variance (Writing Intensive)
- U&G   Statistics 575 - Nonparametric Statistics
- U&G   Statistics 580 – Biostatistical Methods
- U&G   Statistics 593, 594 - Directed Study in Statistics
- G     Statistics 651 - Mathematical Statistics I
- G     Statistics 652 - Mathematical Statistics II

- G Statistics 661 - Advanced Statistics in the Behavioral and Biological Sciences I
- G Statistics 661L - Advanced Statistics Laboratory I
- G Statistics 662 - Advanced Statistics in the Behavioral and Biological Sciences II
- G Statistics 662L - Advanced Statistics Laboratory II
- G Statistics 667 - Special Problems in Applied Statistics/Statistical Consulting
- G Statistics 673 - Statistical Linear Models I
- G Statistics 674 - Statistical Linear Models II
- G Statistics 675 - Experimental Design
- G Statistics 676 - Sample Survey Methods
- G Statistics 677 - Advanced Topics in Data Analysis and Quantitative Methods
- G Mathematics 699 - Thesis Research
- U Anthropology 501 - Selected Topics in Anthropology (team taught)
- U Anthropology 502 - Selected Topics in Anthropology (team taught)
- G Genetic Counseling 671 - Quantitative Risks in Practice
- G Public Health Education 604 – Public Health Statistics

### DIRECTION OF STUDENT RESEARCH

Committee	Year	Student	Department	Univ.
Undergraduate Honors Thesis Committee	1998	Marcello, C	Anthropology	UNCG
Master's Theses Directed	1985	Prudhomme, L	Biometry and Genetics	LSUMC
	1989	Carnell, L	Mathematics	UNCG
	1996	Johnson, R	Mathematical Sciences	UNCG
	2000	Thornton, G	Mathematical Sciences	UNCG
	2003	Jiang, X	Mathematical Sciences	UNCG
Master's Thesis Committees	1983	Fick, A	Biometry	LSUMC
	1983	Higginbotham, S	Applied Statistics	Tulane
	1989	Rosner, V	Clothing and Textiles	UNCG
	1993	Westendorff, M	Sociology	UNCG
	1995	Gaddis, F	Mathematical Sciences	UNCG
	1996	Rapoport, I	Mathematical Sciences	UNCG
	1998	Howell, T	Mathematical Sciences	UNCG
	2001	Edwards, L	Nutrition	UNCG
	2001	Hatziapostolou, T	Mathematical Sciences	UNCG
	2001	Morgan, C	Mathematical Sciences	UNCG
	2001	Harmon, R	Mathematical Sciences	UNCG
2002	Russell, T	Nutrition	UNCG	

	2002	Hinson, B	Mathematical Sciences	UNCG
	2002	Ma, B	Nutrition	UNCG
	2002	Sells, J	Mathematical Sciences	UNCG
	2002	Cross, C	Liberal Studies	UNCG
Doctoral Dissertation Committees	1988	Cox, E	Child Development and Family Relations	UNCG
	1988	McCarthy, P	Nutrition	UNCG
	1989	Hall, L	Counseling and Specialized Educational Development	UNCG
	1989	Tomlinson, T	Psychology	UNCG
	1990	Robertson, P	Counseling and Specialized Educational Development	UNCG
	1990	Vaughan, H	Child Development and Family Relations	UNCG
	1991	Clifford, S	Child Development and Family Relations	UNCG
	1993	Richman, H	Psychology	UNCG
	1993	Kelly, V	Counseling and Specialized Educational Development	UNCG
	1993	Denny, E	Psychology	UNCG
	1993	Bowman, A	Pedagogical Studies and Supervision	UNCG
	1994	Penny, J	Educational Administration, Higher Education and Educational Research	UNCG
	1994	Sexton, C	Psychology	UNCG
	1994	Penta, M	Educational Administration, Higher Education and Educational Research	UNCG
	1995	Johnson, R	Educational Administration, Higher Education and Educational Research	UNCG
	1995	Robinson, C	Counseling and Specialized Educational Development	UNCG
	1996	Cassady, P	Psychology	UNCG
	1997	Carnell, L	Pedagogical Studies and Supervision	UNCG
	1997	Huprich, S	Psychology	UNCG
	1998	Harman, P	Educational Research Methodology	UNCG
	1998	Collins, E	Human Development and Family Relations	UNCG
	2000	Boyles, L	Educational Research Methodology	UNCG

2000	Aragon, S	Educational Research Methodology	UNCG
2001	Rakita, G	Anthropology	UNM
2001	Tomczak, P	Anthropology	UNM
2001	Kelkar, V	Educational Research Methodology	UNCG
2001	Ritter, S	Counseling and Educational Development	UNCG
2001	Frye, A	Educational Research Methodology	UNCG
2002	Hannum, K	Educational Research Methodology	UNCG
2002	Kepley, H	Psychology	UNCG
2002	Ellis-Thomas, D	Educational Research Methodology	UNCG
2002	Paulson, J	Psychology	UNCG
2002	Burroughs, M	Educational Research Methodology	UNCG
2003	Clancy, C	Psychology	UNCG

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### **MENTORING ACTIVITIES**

Guest Speaker, Collaborative Writing, BIOS 841 – Principles of Statistical Consulting, Department of Biostatistics, UNC-CH, 1991 - 1999 (each semester).

Guest speaker, BIOS 691 – Field Observations in Biostatistics, Department of Biostatistics, UNC-CH, 2004-present (annually).

Supervisor of Special Volunteer, Yi Lu, 2008-2012.

Guest Speaker, Assembly of Laboratory Scientists coffee hour, NIEHS, 2011.

Second Mentor for Epidemiology postdoctoral fellow, Yan Wang, 2011-2013.

Supervisor of Special Volunteer, Mitas Ray (high school student), 2012-2014.

Mentor of Summers of Discovery student, Mitas Ray, 2013. Mitas Ray was a semi-finalist in the Intel Science Talent Search based on summer project, 2013.

Supervisor of Special Volunteer, Nan Zhang, 2014.

Guest speaker, Introductory Biostatistics for RTP-area veterinary residents, 2016.

### **SERVICE**

#### NIEHS:

Member, Quality Council, 2004 – 2006.

Member, Committee on Promotions II, 2007 – 2012.

Member, Bioinformatics Search Committee, Biostatistics Branch, 2008.

Member, Bioinformatics Search Committee, Laboratory of Neurobiology, 2009.  
Member, Technical Review Panel, Contract proposals to support NTP technical report preparation, 2009.  
Co-advisor (elected), NIEHS Women Scientists Assembly, 2011 – 2013.  
Point-of-Contact for Biostatistics Branch, Pulse Survey, 2010 – 2012.  
Member, Technical Review Panel, Contract proposals for NTP repro-tox database software, 2012.  
Councilor (elected), Assembly of Scientists, 2013 – 2015.  
Member, Staff Scientist Search Committee, Laboratory of Molecular Genetics, 2013.  
Member, Technical Evaluation Panel, Contract proposals for NTP databases, 2015.  
Member, Staff Scientist Search Committee, Biostatistics and Computational Biology Branch, 2016.

University:

Faculty Consultant, UNCG Statistical Consulting Center, 1986 - 2003.  
Member, Mathematics Instructional Area Committee, UNCG, 1989-91, 1997-1999, 1999-2002 (Chair 2000-2002).  
Member, Natural Science and Mathematics General Education Core Committee, UNCG, 2000-2001.  
Member, Task Force on Restructuring Faculty Senate Committees, UNCG, 2000-2001.  
Member, Admissions Policies Committee, UNCG, 1989-92.  
Member, University Curriculum Committee, UNCG, 1989-91.  
Member, Academic Research Data Archive Advisory Committee, UNCG, 1991 - 1996.  
Chair, University Faculty Development Committee, UNCG, 1992-93, Member 1993-1995.  
Member, Substance Abuse Committee, Student Affairs, UNCG, 1993-1996.  
Member, Graduate Studies Committee, UNCG, 1995-96 (and Student Affairs Subcommittee).  
Member, Graduate Studies Committee, UNCG, 1998-1999 (and Curriculum Subcommittee).  
Member, Committee on Appointed and Elected Committees, UNCG, 1999-2000.

College/School:

Member, Grievance Committee, School of Nursing, LSUMC, 1982 and 1985.  
Member, Undergraduate Studies Committee, College of Arts and Sciences, UNCG, 1989-91.  
Member, Promotion and Tenure Committee, College of Arts and Sciences, UNCG, 1993-94.  
Chair, Promotion and Tenure Committee, College of Arts and Sciences, UNCG, 1994-95.  
Member, Mathematical Sciences Departmental Review Committee, College of Arts and Sciences, UNCG, 1995-96.

Member, Search Committee, Department of Public Health Education, School of Health and Human Performance, UNCG, 1997-98, 1998-99.

Chair-elect/Chair/Past-chair (elected), College Assembly, College of Arts and Sciences, UNCG, 1998-2001.

Member, Executive Committee, College of Arts and Sciences, UNCG, 1998-2001.

*Ex officio* member of the Curriculum and Teaching Committee, College of Arts and Sciences, UNCG, 1998-99.

Member of an *ad hoc* committee reviewing the Instrument of Governance, College of Arts and Sciences, UNCG, 1998-99.

*Ex officio* member of the Budget and Planning Committee, College of Arts and Sciences, UNCG, 1999-2000.

Member, Search Committee, Department of Geography, College of Arts and Sciences, UNCG, 2000-2001.

Member, Ph.D. Planning Committee, Department of Biology, College of Arts and Sciences, UNCG, 2001-2002.

Member, Search Committee, Department of Curriculum and Instruction, School of Education, UNCG, 2002-2003.

Chair, Outstanding Thesis/Master Production Award Committee, Graduate School, UNCG, 2002-2003.

Department:

Member, Curriculum Committee, Department of Biometry and Genetics, LSUMC, 1981-1986.

Member, Examinations Committee, Department of Biometry and Genetics, LSUMC, 1981-1986.

Member, Ad hoc committee reviewing upper division and graduate level offerings, Department of Mathematics, UNCG, 1986.

Member, Ad hoc committee reviewing requirements for Masters of Arts degree, Department of Mathematics, UNCG, 1987.

Member, Personnel Committee, Department of Mathematics, UNCG, 1988 - 90, 1992 - 94, 1998-2000, 2002-2003, Chair: 1989 - 90 and 1993 - 94.

Member, Scholarship Committee, Department of Mathematics, UNCG, 1991 - 1995.

Member, Undergraduate Programs Committee, Department of Mathematics, UNCG, 1991 - 1995.

Member, Graduate Review/Science Planning/Unit Planning Committee, Department of Mathematics, UNCG, 1993 - 1994.

Member, Workload Committee, Department of Mathematical Sciences, UNCG, 1995 - 1996.

Member, Graduate Programs Committee, Department of Mathematical Sciences, UNCG, 1995 - 2003.

Chair, STA 108 Textbook Selection Committee, Department of Mathematical Sciences, UNCG, 1996.

Member, Statistics Search Committees, Department of Mathematical Sciences, UNCG, 1988-1989, 1996-1997, 1997-1998, 2000-2001 (Affirmative Action Representative each time).

Member, Steering Committee for the Departmental Review, Department of Mathematical Sciences, UNCG, 1997-1998.

Coordinator, Division of Statistics, Department of Mathematical Sciences, UNCG, 1998 - 2000, 2002-2003.

Member, MAT 191, 292, 293, 394 Study Group, Department of Mathematical Sciences, UNCG, 1999.

Member, Senior Advisory Committee to the Head, UNCG, 2001-2003.

Member, Head Search Committee, UNCG, 2002-2003.

Professional:

Grant proposal reviewer for: Cooperative Grants Program of the U.S. Civilian Research and Development Foundation; Future SEEDS program of NC A&T, 1998.

Member, Membership Committee and Puzzle Contest Committee, Greensboro Chapter of Sigma Xi, 1992 - 1995.

Chair, Nominating Committee, Greensboro Chapter of Sigma Xi, 1993 - 1995.

Secretary, Greensboro Chapter of Sigma Xi, 1995 - 1996.

President, Greensboro Chapter of Sigma Xi, 1998 - 1999; President-elect, 1997 - 1998.

UNCG's representative to the Southern Regional Council on Statistics (SRCOS), 1998 - 2003.

**OTHER PROFESSIONAL ACTIVITIES**

Statistical Consultant, Moses Cone Hospital, Greensboro, NC, 1987 - 2003.

Statistical Consultant, University Research Associates (formerly Creative Computing Consultants), Jamestown, NC, 1988 - 2003.

Expert witness in a Rowan County, NC murder trial, January, 1994.

Expert reviewer of drug testing legal briefs for a Florida court martial, March 1995.

Expert statistician in medical malpractice suit in Greensboro, NC, Fall, 1995 - Winter, 1996.

Expert witness in a federal credit card theft case, Greensboro, NC and Los Angeles, CA, Spring 1995 - Summer, 1996.

Instructor, summer short courses for pharmacists and neonatologists at Women's Hospital and Moses Cone Hospital (Meta-analysis, Logistic regression, Survival analysis and outcomes research analysis, Topics in statistics for pharmacy research), Greensboro, NC, Summers 1995 – 2002.