

Curriculum Vitae

Grace E. Kissling, Ph.D.

Biostatistics Branch
National Institute of Environmental Health Sciences
P.O. Box 12233, Mail Drop A3-03
Research Triangle Park, NC 27709
(919) 541-1756
(919) 541-4311 (FAX)
kissling@niehs.nih.gov

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:

2011 Elected Fellow of the American Statistical Association
2011 NIH Merit Award 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 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 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.

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 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), Department of Mathematical Sciences, Division of Statistics, University of North Carolina at Greensboro, (Statistics Coordinator, 1998-2000, 2002-2003.)
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 Member, NIEHS/NTP Scientific Review Group (formerly Review Group 1) for the *Report on Carcinogens*.
- 2004-present Contract Officer's Representative (COR)/COTR/Project Officer, NIEHS and NTP Statistical Support contracts.
- 2004-present Instructor, Biostatistics Short Course for NIEHS.
- 2008-present Member, Clinical Advisory Committee, NIEHS/DIR.
- 2011-present Statistical Consultant and *ex officio* 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.
- 2005-2007 Editorial Board member of the *Journal of the National Medical Association*.
- 2012-2014 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.*

REFEREED PUBLICATIONS

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 PCI with bare metal and drug-eluting stents for STEMI. *Journal of the American College of Cardiology: Cardiovascular Interventions* 2012; in press.

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.

Cora MC, Neel JA, Grindem CB, **Kissling GE**, Hess PR. Comparison of automated neutrophil count to manual neutrophil count including blood smear evaluation for the detection of cellular abnormalities and monitoring of neutrophil counts in dogs receiving chemotherapy. *Journal of the American Veterinary Medical Association* 2012; in press.

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. *Journal of Biological Chemistry* 2012; in press.

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* 2012; in press.

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; in press.

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; in press.

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 replication. *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, Dill JA, **Kissling GE**, Cesta MF. Multi-site 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 D, Clark J, King-Herbert AP. The effects of buprenorphine, meloxicam, and flunixin meglumine as post-operative 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 complete deletion of exon 3 from the ER α 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 α and δ . *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 α 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-tetrachlorodibenzo-p-dioxin and dioxin-like compounds in female Harlan Sprague-Dawley rats. *Toxicologic Pathology* 2010; 38:1037-1050.

Zegre-Cannon C, **Kissling GE**, King-Herbert AP, Blankenship-Paris T. Tramadol analgesia in rats: evaluation of routes of administration and dosages on hot plate and tail flick testing. *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 α DNA binding activity alters uterine biological and gene responsiveness to estradiol and Wnt/ β -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.

Ramot Y, Nyska A, Lieuallen W, Maly A, Flake G, **Kissling GE**, Brix A, Malarkey DE, Hooth M. Inflammatory and chloracne-like skin lesions in B6C3F1 mice exposed 2 years to tetrachloroazobenzene (TCAB). *Toxicology* 2009; 265:1-9.

Sanders JM, Bucher JR, Peckham JC, **Kissling GE**, Hejtmancik MR, Chhabra RS. Carcinogenesis studies of cresols in rats and mice. *Toxicology* 2009; 257:33-39.

Schindler EM, Hindes A, Gribben EM, Yin Y, **Kissling G**, Owen RJ, Longmore GD, Arthur JSC, Efimova T. p38 δ mitogen-activated protein kinase is essential for skin tumor development in mice. *Cancer Research* 2009; 69:4648-4655.

Smith MV, Boyd W, **Kissling GE**, Rice JR, Snyder DW, Portier CJ, Freedman JH. A discrete time model for the analysis of medium-throughput *C. elegans* growth data. *PLoS ONE* 2009; 4(9):e7018.

Stone JE, **Kissling GE**, Lujan SA, Rogozin IB, Stith CM, Burgers PM, Kunkel TA. Low fidelity DNA synthesis by the L979F mutator derivative of *Saccharomyces cerevisiae* DNA polymerase ζ . *Nucleic Acids Research* 2009; 37: 3774-3787.

Stout MD, Nyska A, Collins BJ, Witt KL, **Kissling GE**, Malarkey DE, Chhabra RS, Hooth MJ. Chronic toxicity and carcinogenicity studies of chromium picolinate monohydrate administered in feed to F344/N rats and B6C3F1 mice for 2 years. *Food and Chemical Toxicology* 2009; 47:729-733.

Stout MD, Herbert RA, **Kissling GE**, Collins BJ, Travlos GS, Witt KL, Melnick RL, Malarkey DE, Hooth MJ. Hexavalent chromium is carcinogenic to F344/N rats and B6C3F1 mice after chronic oral exposure. *Environmental Health Perspectives* 2009; 117:716-722.

Yoshizawa K, Brix AE, Sells DM, Jokinen MP, Wyde M, Orzech DP, **Kissling GE**, Walker NJ, Nyska A. Reproductive lesions in female Harlan Sprague-Dawley rats following two-year oral treatment with dioxin and dioxin-like compounds. *Toxicologic Pathology* 2009; 37:921-937.

2008

Chan P-C, Hill GD, **Kissling GE**, Nyska A. Toxicity and carcinogenicity studies of 4-methylimidazole in F344/N rats and B6C3F1 mice. *Archives of Toxicology* 2008; 82:45-53.

Chan P-C, Sills RC, **Kissling GE**, Nyska A, Richter W. Induction of thyroid and liver tumors by chronic exposure to 2-methylimidazole in F344 /N Rats and B6C3F1 Mice. *Archives of Toxicology* 2008; 82:399-412.

Dixon D, Herbert R, **Kissling G**, Brix A, Miller R, Maronpot RR. Summary of chemically induced pulmonary lesions in the National Toxicology Program (NTP) toxicology and carcinogenesis studies. *Toxicologic Pathology* 2008; 36:428-439.

Hard GC, Seely JC, **Kissling GE**, Betz LJ. Spontaneous occurrence of a distinctive renal tubule tumor phenotype in rat carcinogenicity studies conducted by the National Toxicology Program (NTP). *Toxicologic Pathology* 2008; 36:388-396.

Hermon T, Moore A, Yu L, **Kissling G**, Castora F, Dixon D. Estrogen receptor alpha (ER α) phospho-Serine-118 is highly expressed in human uterine leiomyoma compared to matched myometrium. *Virchows Archiv* 2008; 453:557-569.

Jeong Y-C, Walker NJ, Burgin DE, **Kissling G**, Gupta M, Kupper L, Birnbaum LS, Swenberg JA. Accumulation of M1dG DNA adducts after chronic exposure to PCBs, but not from acute exposure to polychlorinated aromatic hydrocarbons. *Free Radical Biology and Medicine* 2008; 45:585-591.

Longnecker MP, Smith CS, **Kissling GE**, Hoppin JA, Butenhoff JL, Decker E, Ehresman DJ, Ellefson ME, Flaherty J, Gardner MS, Langlois E, LeBlanc A, Lindstrom AB, Reagen WK, Strynar MJ, Studabaker WB. An interlaboratory study of perfluorinated alkyl levels in human plasma. *Environmental Research* 2008; 107:152-159.

Mackwan RR, Carver GC, **Kissling GE**, Drake JW, Grogan DW. The rate and character of spontaneous mutation in *Thermus thermophilus* HB27. *Genetics* 2008; 180:17-25.

Moore AB, Flake GP, Swartz CD, Heartwell G, Cousins D, Haseman JK, **Kissling GE**, Sidawy MK, Dixon D. Influence of race, age and body mass index on the gross pathology of uterine fibroids. *Journal of Reproductive Medicine* 2008; 53:90-96.

Stout MD, Herbert RA, **Kissling GE**, Suárez F, Roycroft JH, Chhabra RS, Bucher JR. Toxicity and carcinogenicity of methyl isobutyl ketone in F344N rats and B6C3F1 mice following 2-year inhalation exposure. *Toxicology* 2008; 244:209-219.

Stout MD, **Kissling GE**, Suárez FA, Malarkey DE, Herbert RA, Bucher JR. Effect of diet and *Helicobacter hepaticus* infection on the chronic toxicity and carcinogenicity of triethanolamine in B6C3F1 mice. *Toxicologic Pathology* 2008; 36:783-794.

Witt KL, Shelby MD, Itchon-Ramos N, Faircloth M, **Kissling GE**, Chrisman A, Ravi H, Murli H, Mattison D, Kollins SH. Methylphenidate and amphetamine do not induce cytogenetic damage in lymphocytes of children with ADHD. *Journal of the American Academy of Child and Adolescent Psychiatry* 2008; 47: 1375-1383.

Witt KL, Livanos E, **Kissling GE**, Caspary W, Torous D, Recio L. Comparison of flow cytometry and microscopy-based methods of measuring micronucleated reticulocyte frequencies in rodents treated with nongenotoxic and genotoxic chemicals. *Mutation Research – Genetic Toxicology and Environmental Mutagenesis* 2008; 649:101-113.

Yu L, Saile K, Swartz CD, He H, Zheng X, **Kissling GE**, Di X, Lucas S, Robboy SJ, Dixon D. Differential expression of receptor tyrosine kinases (RTKs) and IGF-I pathway activation in human uterine leiomyomas. *Molecular Medicine* 2008; 14:264-275.

Yucesoy B, Johnson VJ, **Kissling GE**, Fluharty K, Kashon ML, Slaven J, Germolec D, Vallyathan V, Luster MI. Genetic susceptibility to progressive massive fibrosis in coal miners. *European Respiratory Journal* 2008; 31:1177-1182.

Zhang L, Ding H, Yan J, Hui R, Wang W, **Kissling GE**, Zeldin DC, Wang DW. Genetic variation in cytochrome P450 2J2 and soluble epoxide hydrolase and the risk of ischemic stroke in a Chinese cohort. *Pharmacogenetics and Genomics* 2008; 18:45-51.

2007

Bennett WD, Hazucha MJ, Folinsbee LJ, Bromberg PA, **Kissling GE**, London SJ. Acute pulmonary function response to ozone (O₃) in young adults as a function of body mass index (BMI). *Inhalation Toxicology* 2007; 19:1147-1154.

Chan SSL, Santos JH, Meyer JN, Mandavilli BS, Cook Jr. DL, McCash CL, **Kissling G**, van Houten B, Copeland WC, Walker VE, Witt KL, Bishop JB. Mitochondrial toxicity following perinatal exposure of CD-1 mice to AZT, 3TC, or AZT-3TC. *Environmental and Molecular Mutagenesis* 2007; 48: 190-200.

DeLozier TC, **Kissling GE**, Coulter SJ, Dai D, Foley JF, Bradbury JA, Murphy E, Steenbergen C, Zeldin DC, Goldstein JA. Detection of human CYP2C8, CYP2C9 and CYP2J2 in cardiovascular tissues. *Drug Metabolism and Disposition* 2007; 35:682-688.

Doi AM, Hill G, Seely J, Hailey JR, **Kissling G**, Bucher JR. α 2u-globulin nephropathy and renal tumors in National Toxicology Program studies. *Toxicologic Pathology* 2007; 35:533-540.

Dunnick JK, **Kissling G**, Gerken DK, Vallant MA, Nyska A. Cardiotoxicity of Ma Huang/caffeine or ephedrine/caffeine in a rodent model system. *Toxicologic Pathology* 2007; 35:657-664.

Golumb E, Houminer E, Dunnick J, **Kissling G**, Borman J, Nyska A, Schwalb H. Occult cardiotoxicity: Subtoxic dosage of bis(2-chloroethoxy)methane impairs cardiac response to simulated ischemic injury. *Toxicologic Pathology* 2007; 35:383-387.

Jiang C, Foley J, Clayton N, **Kissling G**, Jokinen M, Herbert R, Diaz M. Abrogation of lupus nephritis in activation induced deaminase, AID-deficient MRL/lpr mice. *Journal of Immunology* 2007; 178: 7422-7431.

Kissling GE, Dertinger S, Hayashi M, MacGregor JT. Sensitivity of the erythrocyte micronucleus assay: dependence on number of cells scored and inter-animal variability. *Mutation Research – Genetic Toxicology and Environmental Mutagenesis* 2007; 634:235-240.

Melnick RL, Nyska A, Foster PM, Roycroft JH, **Kissling GE**. Toxicity and carcinogenicity of the water disinfection byproduct, dibromoacetic acid, in rats and mice. *Toxicology* 2007; 230: 126-136.

Moore AB, Castro L, Yu L, Zheng X, Di X, Sifre MI, **Kissling GE**, Newbold RR, Bortner CD, Dixon D. Stimulatory and inhibitory effects of genistein on human uterine leiomyoma cell proliferation are influenced by the concentration. *Human Reproduction* 2007; 22:2623-2631.

Morrison JP, Satoh H, Foley J, Horton JL, Dunnick JK, **Kissling GE**, Malarkey DE. N-ethyl N-nitrosourea (ENU)-induced meningiomatosis and meningioma in p16INK4a/p19ARF tumor suppressor gene deficient mice. *Toxicologic Pathology* 2007; 35:838-845.

Peddada SD, Dinse GE, **Kissling GE**. Incorporating historical control data when comparing tumor incidence rates. *Journal of the American Statistical Association* 2007; 102:1212-1220.

Rhodes MC, Bucher JR, Peckham JC, **Kissling GE**, Hejtmancik MR, Chhabra RC. Carcinogenesis studies of benzophenone in rats and mice. *Food and Chemical Toxicology* 2007; 45:843-851.

Sakamoto AN, Stone JE, **Kissling GE**, McCulloch SD, Pavlov YI, Kunkel TA. Mutator alleles of yeast DNA polymerase zeta. *DNA Repair* 2007; 6:1829-1838.

Thigpen JE, Setchell KD, Padilla-Banks E, Haseman JK, Saunders HE, Caviness GF, **Kissling GE**, Grant MG, Forsythe DB. Variations in phytoestrogen content between different mill dates of the same diet produces significant differences in the time of vaginal opening in CD-1 mice and F344 rats but not in CD Sprague Dawley rats. *Environmental Health Perspectives* 2007; 115:1717-1726.

Tremplus CS, Morris RJ, Ehinger M, Elmore A, Bortner CD, Ito M, Cotsarelis G, Nijhof JGW, Peckham J, Flagler N, **Kissling G**, Humble MM, King LC, Adams LD, Desai D, Amin S, Tennant RW. CD34 expression by hair follicle stem cells is required for skin tumor development in mice. *Cancer Research* 2007; 67:4173-4181.

Witt KL, Cunningham CK, Patterson KB, **Kissling GE**, Dertinger SD, Livingston E, Bishop JB. Elevated frequencies of micronucleated erythrocytes in infants exposed to zidovudine in utero and postpartum to prevent mother-to-child transmission of HIV. *Environmental and Molecular Mutagenesis* 2007; 48: 322-329.

2006

Clayton NP, Yoshizawa K, **Kissling G**, Burka LT, Chan P-C, Nyska A. Immunohistochemical analysis of expressions of hepatic cytochrome P450 in F344 rats following oral treatment with kava extract. *Experimental and Toxicologic Pathology* 2006; 58(4):223-236.

Dumsdorf C, Clark AB, Lin Q, **Kissling GE**, Yuan T, Kunkel TA, McGregor WG, Kucherlapati R. Participation of mouse DNA polymerase ι in strand-biased mutagenic bypass of UV photoproducts and suppression of skin cancer. *Proceedings of the National Academy of Sciences* 2006; 103(48):18083-18088.

Dunnick J, Blackshear P, **Kissling G**, Cunningham M, Parker J, Nyska A. Critical pathways in heart function: Bis(2-chloroethoxy)methane-induced heart gene changes in F344 rats. *Toxicologic Pathology* 2006; 34:348-356.

Elangbam CS, Wehe JG, Barton JC, Krull DL, Nyska A, Crabbs T, **Kissling GE**. Evaluation of glycosaminoglycans content and 5-hydroxytryptamine 2B receptor in rat heart valves with spontaneous mitral valvulopathy – A possible exacerbation by dl-amphetamine sulfate in F344 rats? *Experimental and Toxicologic Pathology* 2006; 58(2-3): 89-99.

Elliott L, Longnecker MP, **Kissling GE**, London SJ. Volatile organic compounds and pulmonary function in the third National Health and Nutrition Examination Survey, 1988-1994. *Environmental Health Perspectives* 2006; 114:1210-1214.

Fortune JM, Welch CM, **Kissling GE**, Burgers PMJ, Kunkel TA. RPA and PCNA suppress formation of large deletion errors by yeast DNA polymerase delta. *Nucleic Acids Research* 2006; 34: 4335-4341.

Kissling GE, Bernheim NJ, Hawkins WE, Wolfe MJ, Jokinen MP, Smith CA, Herbert RA, Boorman GA. The utility of the guppy (*Poecilia reticulata*) and medaka (*Oryzias latipes*) in evaluation of chemicals for carcinogenicity. *Toxicological Sciences* 2006; 92:143-156.

Peddada SD and **Kissling GE**. A survival-adjusted quantal-response test for analysis of tumor incidence rates in animal carcinogenicity studies. *Environmental Health Perspectives* 2006; 114:537-541.

Tam NNC, Nyska A, Maronpot RR, **Kissling G**, Lomnitski L, Suttie A, Bakshi S, Bergman M, Grossman S, Ho SM. Differential attenuation of oxidative/nitrosative injuries in early prostatic neoplastic lesions in TRAMP mice by dietary antioxidants. *The Prostate* 2006; 66:57-69.

Zhong X, Garg P, Stith C, Nick-McElhinny S, **Kissling G**, Burgers P, Kunkel T. The fidelity of DNA synthesis by yeast DNA polymerase zeta alone and with accessory proteins. *Nucleic Acids Research* 2006; 34(17): 4731-4742.

2005

Bebenik A, Carver GT, Kadyrov FA, **Kissling GE**, Drake JW. Processivity clamp gp45 and ssDNA-binding-protein gp32 modulate the fidelity of bacteriophage RB69 DNA polymerase in a sequence-specific manner, sometimes enhancing and sometimes compromising accuracy. *Genetics* 2005; 169:1815-1824.

Chen Y, **Kissling GE**, Negishi M, Goldstein J. The nuclear receptors CAR and PXR cross talk with HNF4 α to synergistically activate the human CYP2C9 promoter. *Journal of Pharmacology and Experimental Therapeutics* 2005; 314:1125-1133.

Drake JW, Bebenek A, **Kissling GE**, Peddada S. Mutational clusters from transient hypermutability. *Proceedings of the National Academy of Sciences* 2005; 102:12849-12854.

Emmen JMA, Couse JF, Elmore SA, Yates MM, **Kissling GE**, Korach KS. In vitro growth and ovulation of follicles from ovaries of estrogen receptor (ER) α and ER β null mice indicate a role for ER β in follicular maturation. *Endocrinology*, 2005; 146(6):2817-2826.

Gal P, **Kissling G**, Young W, Dunaway K, Marsh VA, Jones SM, Shockley DH, Weaver NL, Carlos R, Ransom JL. Efficacy of sucrose to reduce pain in premature infants during eye examinations for retinopathy of prematurity. *Annals of Pharmacotherapy* 2005; 39:1029-1033.

Ghanayem BI, Witt KL, **Kissling GE**, Tice RR, Recio L. Absence of acrylamide-induced genotoxicity in CYP2E1-null mice: Evidence consistent with a glycidamide-mediated effect. *Mutation Research* 2005; 578:284-297.

Ghanayem BI, Witt KL, El-Hadri L, Hoffler U, **Kissling GE**, Shelby MD, Bishop JB. Comparison of germ cell mutagenicity in male CYP2E1-null and wild-type mice treated with acrylamide: evidence supporting a glycidamide-mediated effect. *Biology of Reproduction* 2005; 72:157-163.

Marsh VA, Young W, Dunaway K, **Kissling G**, Carlos RQ, Jones SM, Shockley DH, Weaver NL, Ransom JL, Gal P. Efficacy of topical anesthetics to reduce pain in premature infants during eye examinations for retinopathy of prematurity. *Annals of Pharmacotherapy* 2005; 39:829-833.

Nyska A, Yoshizawa K, Jokinen MP, Brix AE, Sells DM, Wyde ME, Orzech DP, **Kissling GE**, Walker NJ. Olfactory epithelial metaplasia and hyperplasia in female Harlan Sprague-Dawley rats following chronic treatment with polychlorinated biphenyls. *Toxicologic Pathology* 2005; 33(3):371-377.

Yoshizawa K, **Kissling GE**, Johnson JA, Clayton NP, Flagler ND, Nyska A. Chemical-induced atrial thrombosis in NTP rodent studies: potential mechanisms and literature review. *Toxicologic Pathology* 2005; 33:517-532.

2004

Nwosu VC, **Kissling GE**, Trempus CS, Honeycutt H, French JE. Exposure of Tg.AC transgenic mice to benzene suppresses hematopoietic progenitor cells and alters gene expression in critical signaling pathways. *Toxicology and Applied Pharmacology* 2004; 196(1):37-46.

Salo PM, Xia J, Johnson CA, Li Y, **Kissling GE**, Avol EL, Liu C, London SJ. Respiratory symptoms in relation to residential coal burning and environmental tobacco smoke among early adolescents in Wuhan, China: a cross-sectional study. *Environmental Health* 2004; 3:14.

Prior to employment at NIEHS

Cassill N, Williamson N, **Kissling G**, Odinkov D. Import market potential, import market competitiveness and add/drop foreign market decisions of US exporters of sewing machines. *Journal of Competitiveness Review* 2005; 15(1):57-71.

Nelson-Gray RO, Huprich SK, **Kissling GE**, Ketchum K. A preliminary examination of Beck's cognitive theory of personality disorders in undergraduate analogues. *Personality and Individual Differences* 2004; 36:219-233.

Miller CK, Russell T, **Kissling G**. Decision-making patterns for dietary supplement purchases among women ages 25-45 years. *Journal of the American Dietetic Association* 2003; 103(11):1523-1526.

Miller CK, Edwards L, **Kissling G**, Sanville L. Evaluation of a theory-based nutrition intervention for older adults with diabetes mellitus. *Journal of the American Dietetic Association* 2002; 102(8):1069-1081.

Miller CK, Edwards L, **Kissling G**, Sanville L. Nutrition education improves metabolic outcomes among older adults with diabetes mellitus: Results from a randomized controlled trial. *Preventive Medicine* 2002; 34(2):252-259.

Beeson SA, **Kissling GE**. Predicting success for baccalaureate graduates on the NCLEX-RN#2. *Journal of Professional Nursing* 2001; 17(3):121-127.

Brodie BR, Stuckey TD, Hansen C, **Kissling G**, Muncy D. Influence of vessel size on early and late outcomes after primary angioplasty for acute myocardial infarction. *Journal of Invasive Cardiology* 2000; 12(1):13-19.

Cykert S, **Kissling G**, Hansen CJ. Patient preferences regarding possible outcomes of lung resection: What outcomes should preoperative evaluations target? *Chest* 2000; 117:1551-1559.

Gegick CG, Altheimer MD, **Kissling GE**. Benefits of outcome analysis in diabetes management. *Endocrine Practice* 2000; 6(3):253-259.

Cykert S, Joines JD, **Kissling G**, Hansen CJ. Racial differences in patients' perceptions of debilitated health states. *Journal of General Internal Medicine* 1999; 14:217-222.

Williamson NC, **Kissling G**, Levinson C, Mangaldas S. Linking export competitiveness and import market targeting. *Journal of Global Competitiveness* 1999; 7(1):174-186.

Brodie BR, Stuckey TD, Wall TC, **Kissling G**, Hansen CJ, Muncy DB, Weintraub RA, Kelly TA, Berry JJ, DeFranco AC. Importance of time to reperfusion for 30 day and late survival and recovery of left ventricular function after primary angioplasty for acute myocardial infarction. *Journal of the American College of Cardiology* 1998; 32(5):1312-1319.

Rubino CM, Shaffer CL, Gal P, Ransom JL, **Kissling GE**. Postnatal pharmacologic prevention of intraventricular hemorrhage: Meta-analysis of phenobarbital and indomethacin. *Pediatric Nursing* 1997; 23(2):196-204.

Brodie BR, Stuckey TD, **Kissling G**, Hansen CJ, Weintraub RA, Kelly TA. Importance of infarct-related artery patency for recovery of left ventricular function and late survival after primary angioplasty for acute myocardial infarction. *Journal of the American College of Cardiology* 1996; 28(2):319-325.

Williamson NC, Lucas SR, Miles BE, **Kissling GE**. Protectionist American businesspeople and their firms. *Management International Review* 1996; 36(2):167-182.

Cykert S, **Kissling G**, Layson R, Hansen C. Health insurance does not guarantee access to primary care: A national study of physicians' acceptance of publicly insured patients. *Journal of General Internal Medicine* 1995; 10:345-348.

Jud GD, Winkler DT, **Kissling GE**. Price spreads and residential housing market liquidity. *The Journal of Real Estate Finance and Economics* 1995; 11:251-260.

Sandford MK and **Kissling GE**. Multivariate analysis of elemental hair concentrations from a medieval Nubian population. *American Journal of Physical Anthropology* 1994; 95:41-52.

Laing AE, Demenais FM, Williams R, **Kissling GE**, Chen V, Bonney GE. Breast cancer risk factors in African American women: The Howard University Tumor Registry experience. *Journal of the National Medical Association* 1993; 85(12):931-939.

McCarthy P, **Kissling G**, Dirkers J. How many people need substance abuse treatment in North Carolina and how much does it cost? *North Carolina Medical Journal* 1993; 54(5):209-212.

Williams R, Laing E, Demenais F, **Kissling G**, Gause B, Chen V, Bonney G, Descriptive analysis of breast cancer in African-American women at Howard University Hospital, 1960-1987. *Journal of the National Medical Association* 1993; 85(11):828-834.

Sandford MK, **Kissling GE**, Joubert PE. Neural tube defect etiology: New evidence concerning maternal hyperthermia, health and diet. *Developmental Medicine and Child Neurology* 1992; 34:661-675.

Hall L, Vacc NA, **Kissling G**. Likelihood to use employee assistance programs: The effects of socio-demographic, social-psychological, socio-cultural, organizational, and community factors. *Journal of Employment Counseling* 1991; 28(2):63-73.

Miller Jr. JM, **Kissling GE**, Brown HL, Nagel PM, Korndorffer III FA, Gabert HA. In utero growth of the large-for-menstrual-age fetus. *Journal of Clinical Ultrasound* 1989; 17:15-17.

Tracy RE, **Kissling GE**, Oalman MC. Two variants of coronary atherosclerosis in six populations. *American Journal of Public Health* 1989; 79(5):575-581.

Tracy RE, **Kissling GE**, Gandia M, Reynolds C. Spatial dispersion of stainable lipid in frozen sections of human aorta. *Virchows Archiv A* 1989; 415:39-49.

Wolf TM, Elston RC, **Kissling GE**. Relationship of hassles, uplifts, and life events to psychological well-being of freshman medical students. *Behavioral Medicine* 1989; 15(1):37-45.

Edwards JC, Euans DW, **Kissling GE**. Changes in student attitudes toward Family Medicine: A four-year study. *Family Medicine* 1988; 20(3):211-214.

Edwards JC, **Kissling GE**, Brannan JR, Plauché WC, Marier RL. Study of teaching residents how to teach. *Journal of Medical Education* 1988; 63:603-610.

Edwards JC, **Kissling GE**, Plauché WC, Marier RL. Evaluation of a teaching skills improvement programme for residents. *Medical Education* 1988; 22:514-517.

Miller Jr. JM, Brown HL, **Kissling GE**, Gabert HA. The relationship of placental grade to fetal size and growth at term. *American Journal of Perinatology* 1988; 5(1):19-21.

Miller Jr. JM, **Kissling GE**, Brown HL, Korndorffer III FA, Gabert HA. Estimated fetal weight: Applicability to small- and large-for-gestational-age fetuses. *Journal of Clinical Ultrasound* 1988; 16:95-97.

Tracy RE and **Kissling GE**. Comparisons of human populations for histologic features of atherosclerosis: A summary of questions and methods for geographic studies. *Archives of Pathology and Laboratory Medicine* 1988; 112:1056-1065.

Brown HL, Miller Jr. JM, Gabert HA, **Kissling G**. Ultrasonic recognition of the small-for-gestation-age fetus. *Obstetrics and Gynecology* 1987; 69(4):631-635.

Carter JM, Gebhardt BM, **Kissling GE**, Kaufman HE. The suppression of acute corneal inflammation by Bredinin. *Journal of Ocular Pharmacology* 1987; 3(3):191-197.

Colin J, Chastel C, Kaufman HE, **Kissling GE**. Combination therapy for dendritic keratitis with Acyclovir and Vidarabine. *Journal of Ocular Pharmacology* 1987; 3:39-42.

Limberg MB, McCaa C, **Kissling GE**, Kaufman HE. Topical application of hyaluronic acid and chondroitin sulfate in the treatment of dry eyes. *American Journal of Ophthalmology* 1987; 103(2):194-197.

McDonald MB, Safir A, Waring GO, Schlichtemeier WR, **Kissling GE**, Kaufman HE. A preliminary study of epikeratophakia or penetrating keratoplasty for keratoconus. *American Journal of Ophthalmology* 1987; 103:467.

Miller Jr. JM, Korndorffer III FA, **Kissling GE**, Brown HL, Gabert HA. Recognition of the overgrown fetus: In utero ponderal indices. *American Journal of Perinatology* 1987; 4(2):86-89.

Tracy RE, **Kissling GE**, Malcom GT, Devaney K. Sequestration hypothesis of atherosclerosis. *Virchows Archiv A* 1987; 411:425-434.

Tracy RE and **Kissling GE**. Age and fibroplasia as preconditions for atheronecrosis in human coronary arteries. *Archives of Pathology and Laboratory Medicine* 1987; 111:957-963.

Tracy RE, **Kissling GE**, Curtis MB. Smooth muscle cell-reticulin lamellar units of 13.2 μm thickness composing the aortic intima. *Virchows Archiv A* 1987; 411:415-424.

Wolf TM, **Kissling GE**, Burgess LA. Hassles and uplifts during the freshman year of medical school. *Psychological Reports - Perceptual and Motor Skills* 1987; 60:85-86.

Yazdani M, **Kissling GE**, Tran TH, Gottschalk SK, Laurent Jr. J, Schuth CR. Phenobarbital increases the theophylline requirement of premature infants being treated for apnea. *American Journal of Diseases of Children* 1987; 141:97-99.

Bonney GE and **Kissling GE**. Gram-Schmidt orthogonalization of multinormal variates: Applications in genetics. *Biometrical Journal* 1986; 28:417-425.

Edwards JC, **Kissling GE**, Plauché WC, Marier RL. Long-term evaluation of resident training in clinical teaching skills. *Journal of Medical Education* 1986; 61:967-970.

Miller Jr. JM, **Kissling GE**, Korndorffer III FA, Brown HL, Gabert HA. A cross-sectional study of in utero growth of the above-average-sized fetus. *American Journal of Obstetrics and Gynecology* 1986; 155(5):1052-1055.

- Tracy RE, **Kissling GE**, Lopez CR, Gandia M. Histometric components of aortic atherosclerosis which vary or remain constant among eight populations. *Laboratory Investigation* 1986; 54(3):314-321.
- Tracy RE, Devaney K, **Kissling G**. Characteristics of the plaque under a coronary thrombus. *1986 Yearbook of Pathology and Clinical Pathology* 1986; p. 84-86.
- Wolf TM, **Kissling GE** and Burgess LA. Change in Type A behavior among medical students: A four-year longitudinal study. *Medical Education* 1986; 20(3):176-180.
- Wolf TM, **Kissling GE**, Burgess LA. Lifestyle characteristics during medical school: A four-year cross-sectional study. *Psychological Reports - Perceptual and Motor Skills* 1986; 59:179-189.
- Edwards JC, Euans DW, **Kissling GE**. Measuring attitude toward family medicine. *Family Medicine* 1985; vol. XVII(1):4-7.
- Hamano H, Kitano J, Mitsunaga S, Kojima S, **Kissling GE**. Adverse effects of contact lens wear in a large Japanese population. *The CLAO Journal* 1985; 11(2):141-147.
- Kandarakis A, Johnson TD, Ziegler LP, **Kissling GE**, Zimmerman TJ, Alpern L. The effect of nitrates on intraocular pressure in Sturge-Weber Syndrome. *Glaucoma* 1985; 7(3):120-126.
- Kaufman HE, Varnell ED, Centifanto YM, **Kissling GE**. Effect of the herpes simplex virus genome on the response of infection to corticosteroids. *American Journal of Ophthalmology* 1985; 100(1):114-118.
- Tracy RE, Devaney K, **Kissling G**. Characteristics of the plaque under a coronary thrombus. *Virchows Archiv, Pathol. Anat.* 1985; 405:411-427.
- Tracy RE, **Kissling GE**, Devaney KO, Lopez CR, Gandia M. Spatial dispersion of spindle cells in the human thoracic aorta. *Laboratory Investigation* 1985; 52(1):85-92.
- Tracy RE and **Kissling GE**. Age and fibroplasia as pre-conditions for atheronecrosis in the human thoracic aorta. *Archives of Pathology and Laboratory Medicine* 1985; 109:651-658.
- Bonney GE and **Kissling GE**. On the inverse of a patterned covariance matrix. *Journal of the American Statistical Association* 1984; 79(387):722-723.
- Sanitato JJ, Asbell PA, Varnell ED, **Kissling GE**, Kaufman HE. Acyclovir in the treatment of herpetic stromal disease. *American Journal of Ophthalmology* 1984; 98:537-547.
- Wolf TM and **Kissling GE**. Changes in lifestyle characteristics, health, and mood of freshman medical students. *Journal of Medical Education* 1984; 59:806-814.
- Yamaguchi T, Asbell PA, Ostrick M, Safir A, **Kissling G**, Kaufman HE. Endothelial damage in monkeys after anterior radial keratotomy performed with a diamond blade. *Archives of Ophthalmology* 1984; 102:765-769.
- Yamaguchi T, Asbell PA, Ostrick M, **Kissling GE**, Safir A, Kaufman HE. Corticosteroid therapy after anterior radial keratotomy in primates. *American Journal of Ophthalmology* 1984; 97:215-220.

Kaufman HE, Varnell ED, Centifanto-Fitzgerald YM, De Clercq E, **Kissling GE**. Oral antiviral drugs in experimental herpes simplex keratitis. *Antimicrobial Agents and Chemotherapy* 1983; 24(6):888-891.

Tracy RE, Toca VT, **Kissling GE**, Lopez C. Fibrous intimal thickening and atheronecrosis of the thoracic aorta: Some background for a mathematical theory. *Laboratory Investigation* 1983; 48(3):303-312.

Tracy RE, Toca VT, Lopez CR, **Kissling GE**, Devaney K. Fibrous intimal thickening and atheronecrosis of the thoracic aorta in coronary heart disease. *Laboratory Investigation* 1983; 48(3):313-322.

Tracy RE, **Kissling GE**, Devaney KO, Lopez CR, Toca VT, Gandia M. The spatial dispersion of foam cells in the human thoracic aorta. *Laboratory Investigation* 1983; 49(6):693-701.

Wolf TM and **Kissling GE**. Type A behavior and achievement of freshman medical students. *Journal of Medical Education* 1983; 58:820-822.

BOOK CHAPTERS

Kissling GE. Statistical methods. Chapter 14 in *The Clinical Chemistry of Laboratory Animals*, (Kurtz, Prescott, Travlos, eds.) 2012, in press.

Brunssen SH, Moy SS, **Kissling GE**. Behavioral principles and phenotyping of mice: Developmental and adult life stages. Chapter 12 (p. 283-308) in *Neurotoxicology, 3rd edition*, (Harry and Tilson, eds.) 2010.

Melnick RL and **Kissling GE**. Evaluation of human cancer risk from animal studies. Book chapter. In E. Melnick and B. Everitt (eds.) *Encyclopedia of Quantitative Risk Analysis and Assessment*. New York, John Wiley & Sons 2008.

Prior to employment at NIEHS

Weaver DS, Sandford MK, Bogdan G, **Kissling GE**, Powell ML. Prehistoric treponematoses on the North Carolina coast. In: Powell ML and Cook DC, eds. *The Myth of Syphilis: The Natural History of Treponematoses in North America*. Gainesville, Florida: University Press of Florida, 2005; 77-91.

Sandford MK, Bogdan G, Weaver DS, **Kissling GE**, Powell ML. Prehistoric treponematoses at the Tutu Site: the U.S. Virgin Islands. In: Powell ML and Cook DC, eds. *The Myth of Syphilis: The Natural History of Treponematoses in North America*. Gainesville, Florida: University Press of Florida, 2005; 402-417.

Sandford MK, Bogdan G, **Kissling GE**. Biological adaptation in the prehistoric Caribbean: Osteology and bioarchaeology of the Tutu site. In: Righter E, ed. *Human Adaptations at the Tutu Archaeological Village Site: A Multidisciplinary Case Study*. New York: Gordon and Breach Science Publishers, 2002; 209-229.

Sandford MK and **Kissling GE**. Chemical analyses of human hair: Anthropological applications. In: Sandford MK, ed. *Investigations of Ancient Tissues: Chemical Analyses in Anthropology*, New York: Gordon and Breach Science Publishers. 1993; 131-166.

Edwards JC, **Kissling GE**, Plauché WC, Marier RL. Developing and evaluating a teaching improvement program for residents. In: Edwards JC and Marier RL, eds. *Clinical Teaching for Medical Residents: Roles, Techniques, and Programs*. New York: Springer Publishing Company, 1987.

TECHNICAL REPORTS¹

2012

National Toxicology Program (2012). Toxicology and carcinogenesis studies of pyrogallol in F344/N rats and B6C3F1/N mice (dermal studies). Technical Report Series No. 574. NIH Publication No. 12-5916.

National Toxicology Program (2012). Toxicology and carcinogenesis studies of trimethylolpropane triacrylate (technical grade) in F344/N rats and B6C3F1/N mice (dermal studies). Technical Report Series No. 576. NIH Publication No. 12-5918.

National Toxicology Program (2012). Toxicology and carcinogenesis studies of a nondecolorized whole leaf extract of *Aloe barbadensis Miller* (Aloe vera) in F344/N rats and B6C3F1/N mice (drinking water studies). Technical Report Series No. 577. NIH Publication No. 11-5919.

National Toxicology Program (2012). Toxicology and carcinogenesis studies of *Ginkgo biloba* extract in F344/N rats and B6C3F1/N mice (gavage studies). Technical Report Series No. 578. NIH Publication No. 12-5920.

National Toxicology Program (2012). Toxicology and carcinogenesis studies of n,n-dimethyl-p-toluidine in F344/N rats and B6C3F1/N mice (gavage studies). Technical Report Series No. 579. NIH Publication No. 12-5921.

National Toxicology Program (2012). Toxicology and carcinogenesis studies of β -picoline in F344/N rats and B6C3F1/N mice (drinking water studies). Technical Report Series No. 580. NIH Publication No. 12-5922.

2011

National Toxicology Program (2011). Toxicology and carcinogenesis studies of α,β -thujone in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 570. NIH Publication No. 11-5912.

National Toxicology Program (2011). Toxicology and carcinogenesis studies of kava kava extract in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 571. NIH Publication No. 11-5913.

¹ 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.

National Toxicology Program (2011). Toxicology and carcinogenesis studies of methyl trans-styryl ketone in F344/N rats and B6C3F1 mice (feed and dermal studies). Technical Report Series No. 572. NIH Publication No. 11-5914.

National Toxicology Program (2011). Toxicology and carcinogenesis studies of styrene-acrylonitrile trimer in F344/N rats (perinatal and postnatal feed studies). Technical Report Series No. 573. NIH Publication No. 11-5915.

National Toxicology Program (2011). Toxicology and carcinogenesis studies of acrylamide in F344/N rats and B6C3F1/N mice (feed and drinking water studies). Technical Report Series No. 575. NIH Publication No. 12-5917.

National Toxicology Program (2011). Toxicology study of senna in C57BL/6NTac mice and toxicology and carcinogenesis of senna in genetically modified C3B6.129F1-*Trp53*^{tm1Brd} N12 haploinsufficient mice (feed studies). GMM Series No. 15. NIH Publication No. 11-5968.

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.

2010

No reports were reviewed in 2010.

2009

National Toxicology Program (2009). Toxicology and carcinogenesis studies of bis(2-chloroethoxy)methane in F344/N rats and B6C3F1 mice (dermal studies). Technical Report Series No. 536. NIH Publication No. 10-5904.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of β -myrcene in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 557. NIH Publication No. 09-5898.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of 3,3',4,4'-tetrachloroazobenzene (TCAB) in Harlan Sprague-Dawley rats and B6C3F1 mice (gavage studies). Technical Report Series No. 558. NIH Publication No. 09-5899.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of 2,3',4,4',5-pentachlorobiphenyl (PCB 118) in female Harlan Sprague-Dawley rats (gavage studies). Technical Report Series No. 559. NIH Publication No. 09-5900.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of androstenedione in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 560. NIH Publication No. 10-5901.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of tetralin in F344/N rats and B6C3F1 mice and a toxicology study of tetralin in male NBR rats (inhalation studies). Technical Report Series No. 561. NIH Publication No. 09-5902.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of goldenseal root powder (*Hydrastis canadensis*) in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 562. NIH Publication No. 10-5903.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of pulegone in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 563. NIH Publication No. 10-5905.

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.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of milk thistle extract in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 565. NIH Publication No. 10-5907.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of diethylamine in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 566. NIH Publication No. 10-5908.

National Toxicology Program (2009). Toxicology and carcinogenesis studies of ginseng in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 567. NIH Publication No. 10-5909.

2008

National Toxicology Program (2008). Toxicology and carcinogenesis studies of dibromoacetonitrile in F344/N rats and B6C3F1 mice (drinking water studies). Technical Report Series No. 544. NIH Publication No. 10-5886.

National Toxicology Program (2008). Toxicology and carcinogenesis studies of bromochloroacetic acid in F344/N rats and B6C3F1 mice (drinking water studies). Technical Report Series No. 549. NIH Publication No. 09-5890.

National Toxicology Program (2008). Toxicology and carcinogenesis studies of isoeugenol in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 551. NIH Publication No. 10-5892.

National Toxicology Program (2008). Toxicology and carcinogenesis studies of 5-(hydroxymethyl)-2-furfural in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 554. NIH Publication No. 10-5895.

National Toxicology Program (2008). Toxicology and carcinogenesis studies of 1,2-dibromo-2,4-dicyanobutane in F344/N rats and B6C3F1 mice (dermal studies). Technical Report Series No. 555. NIH Publication No. 10-5896.

National Toxicology Program (2008). Toxicology and carcinogenesis studies of chromium picolinate monohydrate in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 556. NIH Publication No. 10-5897.

National Toxicology Program (2008). Toxicity studies of estragole administered by gavage to F344/N rats and B6C3F1 mice. TOX 82. NIH Publication No. 08-5966.

2007

National Toxicology Program (2007). Toxicology and carcinogenesis studies of formamide in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 541. NIH Publication No. 08-5884.

National Toxicology Program (2007). Toxicology and carcinogenesis studies of cumene in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 542. NIH Publication No. 09-5885.

National Toxicology Program (2007). Toxicology and carcinogenesis studies of sodium dichromate dihydrate in F344/N rats and B6C3F1 mice (drinking water studies). Technical Report Series No. 546. NIH Publication No. 08-5887.

National Toxicology Program (2007). Toxicology and carcinogenesis studies of cresols in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 550. NIH Publication No. 08-5891.

National Toxicology Program (2007). Toxicology and carcinogenesis studies of propargyl alcohol in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 552. NIH Publication No. 08-5893.

National Toxicology Program (2007). Toxicity studies of Wy-14,643 administered in feed to Sprague-Dawley rats, B6C3F1 mice and Syrian hamsters. TOX 62. NIH Publication No. 08-4419.

National Toxicology Program (2007). Toxicity studies of sodium dichromate dihydrate administered in drinking water to male and female F344/N rats and B6C3F1 mice and male BALB/c and *am3-C57BL/6* mice. TOX 72. NIH Publication No. 07-5964.

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-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (drinking water studies). GMM Series No. 11. NIH Publication No. 07-4428.

2006

National Toxicology Program (2006). Toxicology and carcinogenesis studies of methylene blue trihydrate in F344/N rats and B6C3F1 mice (gavage studies). Technical Report Series No. 540. NIH Publication No. 08-4429.

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

National Toxicology Program (2006). Toxicology studies of allyl bromide in genetically modified (FVB Tg.AC hemizygous) mice and carcinogenicity studies of allyl bromide in genetically modified [B6.129-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (gavage studies). GMM Series No. 7. NIH Publication No. 08-4424.

National Toxicology Program (2006). Toxicology and carcinogenesis study of benzene in genetically modified haploinsufficient p16^{INK4a}/p19^{Arf} mice (gavage studies). GMM Series No. 8. NIH Publication No. 08-4425.

National Toxicology Program (2006). Toxicology studies of dicyclohexylcarbodiimide in F344/N rats, B6C3F1 mice, and genetically modified (FVB Tg.AC hemizygous) mice and carcinogenicity study of dicyclohexylcarbodiimide in genetically modified [B6.129-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (dermal studies). GMM Series No. 9. NIH Publication No. 07-4426.

National Toxicology Program (2006). Toxicology and carcinogenesis study of phenolphthalein in genetically modified haploinsufficient p16^{INK4a}/p19^{Arf} mice (feed study). GMM Series No. 12. NIH Publication No. 07-5961.

National Toxicology Program (2006). Toxicology and carcinogenesis study of glycidol in genetically modified haploinsufficient p16^{INK4a}/p19^{Arf} mice (gavage study). GMM Series No. 13. NIH Publication No. 08-5962.

2005

National Toxicology Program (2005). Toxicology and carcinogenesis studies of diisopropylcarbodiimide in F344/N rats and B6C3F1 mice (dermal studies). Technical Report Series No. 523. NIH Publication No. 07-4473.

National Toxicology Program (2005). Toxicology and carcinogenesis studies of divinylbenzene-HP in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 534. NIH Publication No. 07-4470.

National Toxicology Program (2005). Toxicology and carcinogenesis studies of 4-methylimidazole in F344/N rats and B6C3F1 mice (feed studies). Technical Report Series No. 535. NIH Publication No. 07-4471.

National Toxicology Program (2005). Toxicology and carcinogenesis studies of dibromoacetic acid in F344/N rats and B6C3F1 mice (drinking water studies). Technical Report Series No. 537. NIH Publication No. 07-4475.

National Toxicology Program (2005). Toxicology and carcinogenesis studies of methyl isobutyl ketone in F344/N rats and B6C3F1 mice (inhalation studies). Technical Report Series No. 538. NIH Publication No. 07-4476.

National Toxicology Program (2005). Toxicology studies of bromodichloromethane in genetically modified (FVB Tg.AC hemizygous) mice (dermal, drinking water, and gavage studies) and carcinogenicity studies of bromodichloromethane in genetically modified [B6.129-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (drinking water and gavage studies). GMM Series No. 5. NIH Publication No. 07-4422.

National Toxicology Program (2005). Toxicology studies of sodium bromate in genetically modified (FVB Tg.AC hemizygous) mice (dermal and drinking water studies) and carcinogenicity studies of sodium bromate in genetically modified [B6.129-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (drinking water studies). GMM Series No. 6. NIH Publication No. 07-4423.

National Toxicology Program (2005). Toxicology studies of diisopropylcarbodiimide in genetically modified (FVB Tg.AC hemizygous) mice and carcinogenicity studies of diisopropylcarbodiimide in genetically modified [B6.129-*Trp53*^{tm1Brd} (N5) haploinsufficient] mice (dermal studies). GMM Series No. 10. NIH Publication No. 07-4427.

2004

National Toxicology Program (2004). Toxicology and carcinogenesis studies of sodium chlorate in F344/N rats and B6C3F1 mice (drinking water studies). Technical Report Series No. 517. NIH Publication No. 06-4457.

National Toxicology Program (2004). Toxicology and carcinogenesis studies of transplacental AZT in Swiss (CD-1) mice (in utero studies). Technical Report Series No. 522. NIH Publication No. 06-4458.

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. NIH Publication No. 06-4464.

National Toxicology Program (2004). Toxicology and carcinogenesis studies of 2,2',4,4',5,5'-hexachlorobiphenyl (PCB 153) in female Harlan Sprague-Dawley rats (gavage studies). Technical Report Series No. 529. NIH Publication No. 06-4465.

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.

National Toxicology Program (2004). Toxicology and carcinogenesis studies of a binary mixture of 3,3',4,4',5-pentachlorobiphenyl (PCB 126) and 2,3',4,4',5-pentachlorobiphenyl (PCB 118) in female Harlan Sprague-Dawley rats (gavage studies). Technical Report Series No. 531. NIH Publication No. 07-4467.

National Toxicology Program (2004). Toxicology and carcinogenesis studies of bromodichloromethane in male F344/N rats and female B6C3F1 mice (drinking water studies). Technical Report Series No. 532. NIH Publication No. 06-4468.

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.

LETTERS TO THE EDITOR

Bernstein DI, **Kissling GE**, Cartier A, Yucesoy B, Gautrin D, Sastre J, Boulet LP, Malo JL, Quirce S, Tarlo S, Hershey GK, Johnson V, Langmeyer S, Lummus ZL. Hexamethylene diisocyanate asthma is associated with genetic polymorphisms of CD14, IL-13, and IL4R α . [Letter to the editor]. *Journal of Allergy and Clinical Immunology* 2011; 128:418-420.

Collins BJ, Stout MD, Levine KE, **Kissling GE**, Melnick RL, Fennell TR, Walden R, Abdo K, Pritchard JB, Fernando RA, Burka LT, Hooth MJ. Hexavalent chromium in drinking water, Reply [Reply to Letter to the Editor]. *Toxicological Sciences* 2011; 119:425.

Kissling GE, Portier CJ, Huff J. MtBE and cancer in animals: Statistical issues with poly-3 survival adjustments for lifetime studies. [Letter to the Editor]. *Regulatory Toxicology and Pharmacology* 2008; 50:428-429.

Prior to employment at NIEHS

Brodie BR, **Kissling G**. Relationship between delay in performing direct coronary angioplasty and early clinical outcome in patients with acute myocardial infarction. [Letter to the Editor]. *Circulation* 2000; 102(4):E29-30.

Yazdani M, Tran TH, Gottshalk CR, **Kissling GE**. Phenobarbital increases aminophylline requirement in premature infants, Reply. [Reply to Letter to the Editor]. *American Journal of Diseases of Children* 1988; 142:123.

PAPERS UNDER REVIEW

Stanko JP, **Kissling GE**, Elmore SA, Fenton SE. Prenatal exposure to atrazine increases susceptibility of Long-Evans rat offspring to DMBA-induced mammary tumorigenesis compared to Sprague-Dawley rat offspring. 2012; submitted.

Smith MV, Matthews J, Easterling M, **Kissling GE**. Inferential properties of transport mechanisms in PBPK models. 2012; submitted.

Witt KL, Stout MD, Herbert RA, **Kissling GE**, Collins BJ, Hooth MJ. Mechanistic insights from the NTP studies of chromium. 2012; submitted.

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; some talks had multiple presenters

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*. Statistical analysis for short and long term carcinogenicity studies. Invited talk, American College of Toxicology 31st annual meeting, Baltimore, MD, November 7, 2010.

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

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.

Prior to employment at NIEHS

Lea SM*, **Kissling GE**, O'Dell TJ, Lybanon M. Water depth determination from wave crest images. Invited talk/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.

Weaver DS*, Sandford MK, Bogdan G, **Kissling GE**. Treponematosis in the prehistoric Caribbean, North Carolina coast and Kentucky: Paleoepidemiological and evolutionary perspectives. Invited talk, 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. Treponematosis in the prehistoric Caribbean, North Carolina coast and Kentucky: Diagnostic considerations. Invited talk, 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.

Sandford MK* and **Kissling GE**. The chemistry of mummified hair: New approaches to interpretation. Invited talk, 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 talk, Symposium on Ancient Mummies and Modern Medical Technology at the 1994 annual meeting of the Paleopathology Association, Denver, CO, April 30, 1994.

Sandford MK* and **Kissling GE***. Out of the ashes: Future directions for elemental analyses through multivariate statistics. Invited talk, Canadian Association for Physical Anthropology Meeting, St. John's, Newfoundland, Canada, October 21 - 23, 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. Paper in the *1993 Proceedings of the Social Statistics Section of ASA*, p. 112-117.

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.

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

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

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

COURSES TAUGHT (1981-2003)

Undergraduate (U)/

Graduate (G) 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 343/351 - Probability

U	Statistics 352 - Statistical Inference
U&G	Statistics 573W - Theory of Linear Regression (Writing Intensive)
U&G	Statistics 574W - 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	Hatzia Apostolou, 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	UNCG

		Development	
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

SERVICE

NIEHS:

Member, Quality Council, 2004-2006.

Member, Committee on Promotions II, 2007-present.

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.

Point-of-Contact for Biostatistics Branch, Pulse Survey, 2010-2012.

Co-advisor, NIEHS Women Scientists Assembly, 2011-2013.

Member, Technical Review Panel, Contract proposals for NTP repro-tox database software, 2012.

University:

Faculty Consultant, UNCG Statistical Consulting Center, 1986-2003.

Member, Mathematics Instructional Area Committee, UNCG, 1989-1991, 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, 1989-1992.

Member, University Curriculum Committee, UNCG, 1989-1991.

Member, Academic Research Data Archive Advisory Committee, UNCG, 1991-1996.

Chair, University Faculty Development Committee, UNCG, 1992-1993, Member 1993-1995.

Member, Substance Abuse Committee, Student Affairs, UNCG, 1993-1996.

Member, Graduate Studies Committee, UNCG, 1995-1996 (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, 1989-1991.

Member, Promotion and Tenure Committee, College of Arts and Sciences, UNCG, 1993-1994.

Chair, Promotion and Tenure Committee, College of Arts and Sciences, UNCG, 1994-1995.

Member, Mathematical Sciences Departmental Review Committee, College of Arts and Sciences, UNCG, 1995-1996.

Member, Search Committee, Department of Public Health Education, School of Health and Human Performance, UNCG, 1997-1998, 1998-1999.

Chair-elect, Chair, Past Chair, 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, 1998-1999.

Member, *Ad hoc* committee reviewing the Instrument of Governance, College of Arts and Sciences, UNCG, 1998-1999.

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, 1988-1990, 1992-1994, 1998-2000, 2002-2003, Chair: 1989-1990 and 1993-1994.

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 Committee, 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.

Guest Speaker, Collaborative Writing, graduate biostatistics consulting class, Department of Biostatistics, UNC-CH, 1991-1999 (each semester).

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.