CURRICULUM VITAE

Name: Gregg E. Dinse

Citizenship: United States

Education:

1976 -- B.S. (Mathematics) magna cum laude, Bucknell University
1978 -- M.S. (Statistical Science) State University of New York at Buffalo
1981 -- Sc.D. (Biostatistics) Harvard University

Brief Chronology of Employment:

1973-1976 Teaching Assistant, Mathematics, Bucknell University
1976-1978 Teaching Assistant, Statistical Science, State University of New York
1978-1981 Research Assistant, Biostatistics, Dana-Farber Cancer Institute
1981-1982 NIH Postdoctoral Fellow, Biostatistics, Harvard University
1982-1985 Staff Fellow, Statistics and Biomathematics Branch, NIEHS, NIH
1985-1987 Senior Staff Fellow, Statistics and Biomathematics Branch, NIEHS, NIH
1987-Date Senior Investigator, Biostatistics Branch, NIEHS, NIH

Honors and Other Special Scientific Recognition:

Phi Eta Sigma (1973)
Pi Mu Epsilon (1974)
Phi Beta Kappa (1975)
NCI Biometry Traineeship Award (1977, 1979, 1980)

Professional Societies:

Member, American Statistical Association (ASA)
Member, International Biometric Society (IBS/ENAR)
Member, Royal Statistical Society (RSS)

Professional Service:

Editorial Board: Associate Editor for Lifetime Data Analysis (2008-date)

Referee for: American Journal of Epidemiology, Annals of Epidemiology, Australian Journal of Statistics, Biometrical Journal, Biometrics, Biometrika, Biostatistics, Canadian Journal of Statistics, Cancer Research, Communications in Statistics, Environmental and Ecological Statistics, Environmental Health Perspectives, European Journal of Epidemiology, Fundamental and Applied Toxicology, Journal of Human and Ecological Risk Assessment, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Statistical Planning and Inference, Journal of the American Medical Association, Journal of the American Statistical Association, Journal of the National Cancer Institute, Journal of the Royal Statistical Society, Lifetime Data Analysis, Mathematical Biosciences, Medical and Pediatric Oncology, Nonparametric Statistics, Risk Analysis, Sankhya, Science in China, Statistics and Probability Letters, Statistics in Medicine, Technometrics

Member, Regional Advisory Board (IBS/ENAR, 1990-92)
Member, Computer Advisory Board (NIEHS, 1995-99)
Organizer, Invited Sessions for Spring and Summer Joint Statistical Meetings

Publications in Peer-Reviewed Journals:

1. **Dinse**, GE and Lagakos, SW: The analysis of partially-censored data from a first-order semi-Markov model. Journal of Statistical Computation and Simulation **11**: 209-222, 1980.

2. **Dinse**, GE: Nonparametric estimation for partially-complete time and type of failure data. Biometrics **38**: 417-431, 1982.

3. **Dinse**, GE and Lagakos, SW: Nonparametric estimation of lifetime and disease onset distributions from incomplete observations. Biometrics **38**: 921-932, 1982.

4. **Dinse**, GE and Lagakos, SW: Regression analysis of tumour prevalence data. Journal of the Royal Statistical Society, Series C **32**: 236-248, 1983. [Corrigenda, Vol. **33**: 79-80, 1984.]

5. Baker, EL, Feldman, RG, White, RF, Harley, JP, **Dinse**, GE and Berkey, CS: Monitoring neurotoxins in industry: Development of a neurobehavioral test battery. Journal of Occupational Medicine **25**: 125-130, 1983.

6. Baker, EL, Feldman, RG, White, RA, Harley, JP, Niles, CA, **Dinse**, GE and Berkey, CS: Occupational lead neurotoxicity: A behavioral and electrophysiological evaluation -- Study design and year one results. British Journal of Industrial Medicine **41**: 352-361, 1984.

7. Bruckner, HW, **Dinse**, GE, Davis, TE, Falkson, G, Creech, RH, Arseneau, JC, Greenspan, EM, Brodovsky, HS, Pagano, M and Hahn, RG: A randomized comparison of cyclophosphamide, adriamycin and 5-fluorouracil with triethylenethiophosphoramide and methotrexate both as sequential and as fixed rotational treatment in patients with advanced ovarian cancer. Cancer **55**: 26-40, 1985.

8. Baker, EL, White, RF, Pothier, LJ, Berkey, CS, **Dinse**, GE, Travers, PH, Harley, JP and Feldman, RG: Occupational lead neurotoxicity -- Improvement in behavioral effects after reduction of exposure. British Journal of Industrial Medicine **42**: 507-516, 1985.

9. **Dinse**, GE: Testing for a trend in tumor prevalence rates: I. Nonlethal tumors. Biometrics **41**: 751-770, 1985.

10. **Dinse**, GE: An alternative to Efron's redistribution-of-mass construction of the Kaplan-Meier estimator. The American Statistician **39**: 299-300, 1985.

11. Larson, MG and **Dinse**, GE: A mixture model for the regression analysis of competing risks data. Journal of the Royal Statistical Society, Series C **34**: 201-211, 1985.

12. **Dinse**, GE and Haseman, JK: Logistic regression analysis of incidental-tumor data from animal carcinogenicity experiments. Fundamental and Applied Toxicology **6**: 44-52, 1986.

13. **Dinse**, GE: Nonparametric prevalence and mortality estimators for animal experiments with incomplete cause of death data. Journal of the American Statistical Association **81**: 328-336, 1986.

14. **Dinse**, GE and Larson, MG: A note on semi-Markov models for partially censored data. Biometrika **73**: 379-386, 1986.

15. Portier, CJ and **Dinse**, GE: Semi-parametric analysis of tumor incidence rates in survival/ sacrifice experiments. Biometrics **43**: 107-114, 1987.

16. **Dinse**, GE: Discussion of "Handling cause of death in equivocal cases using the EM algorithm" by RL Kodell and JJ Chen. Communications in Statistics - Theory and Methods **16**: 2587-2592, 1987.

17. **Dinse**, GE: Further discussion of "Handling cause of death in equivocal cases using the EM algorithm" by RL Kodell and JJ Chen. Communications in Statistics - Theory and Methods **16**: 2597-2601, 1987.

18. **Dinse**, GE: Estimating tumor incidence rates in animal carcinogenicity experiments. Biometrics **44**: 405-415, 1988.

19. **Dinse**, GE: Simple parametric analysis of animal tumorigenicity data. Journal of the American Statistical Association **83**: 638-649, 1988.

20. **Dinse**, GE: A prevalence analysis that adjusts for survival and tumor lethality. Journal of the Royal Statistical Society, Series C **37**: 435-445, 1988.

21. Hoel, DG and **Dinse**, GE: Using mortality data to estimate radiation effects on breast cancer incidence. Environmental Health Perspectives **87**: 123-129, 1990.

22. **Dinse**, GE: Constant risk differences in the analysis of animal tumorigenicity data. Biometrics **47**: 681-700, 1991.

23. **Dinse**, GE and Hoel, DG: Exploring time trends in cancer incidence. Cancer Causes and Control **3**: 409-417, 1992.

24. **Dinse**, GE, Piegorsch, WW, and Boos, DD: Confidence statements about the time range over which survival curves differ. Journal of the Royal Statistical Society, Series C **42**: 21-30, 1993.

25. **Dinse**, GE: Evaluating constraints that allow survival-adjusted incidence analyses in single-sacrifice studies. Biometrics **49**: 399-407, 1993.

26. **Dinse**, GE: A comparison of tumor incidence analyses applicable in single-sacrifice animal experiments. Statistics in Medicine **13**: 689-708, 1994.

27. Davis, DL, **Dinse**, GE, and Hoel, DG: Decreasing cardiovascular disease and increasing cancer among whites in the United States from 1973 to 1987: Good news and bad news. Journal of the American Medical Association **271**: 431-437, 1994.

28. Malarkey, DE, Devereux, TR, **Dinse**, GE, Mann, PC, and Maronpot, RR: Hepato-carcinogenicity of chlordane in B6C3F1 and B6D2F1 male mice: evidence for regression in B6C3F1 mice and carcinogenesis independent of *ras* proto-oncogene activation. Carcinogenesis **16**: 2617-2625, 1995.

29. **Dinse**, GE, Umbach, DM, Sasco, AJ, Hoel, DG, and Davis, DL: Unexplained increases in cancer incidence in the United States from 1975 to 1994: Possible sentinel health indicators? Annual Review of Public Health **20**: 173-209, 1999.

30. Rogan, WJ, Ragan, NB, and **Dinse**, GE: X-ray evidence of increased asbestos exposure in the US population from NHANES I and NHANES II, 1973-1978. Cancer Causes and Control **11**: 441-449, 2000.

31. Dunson, DB and **Dinse**, GE: Distinguishing effects on tumor multiplicity and growth rate in chemoprevention experiments. Biometrics **56**: 1068-1075, 2000.

32. Tully, DB, Collins, BJ, Overstreet, JD, Smith, CS, **Dinse**, GE, Mumtaz, MM, and Chapin, RE: Effects of arsenic, cadmium, chromium, and lead on gene expression regulated by a battery of 13 different promoters in recombinant HepG2 cells. Toxicology and Applied Pharmacology **168**: 79-90, 2000.

33. Dunson, DB and **Dinse**, GE: Bayesian incidence analysis of animal tumorigenicity data. Journal of the Royal Statistical Society, Series C **50**: 125-141, 2001.

34. Parise, H, **Dinse**, GE, and Ryan, LM: Flexible estimates of tumor incidence for intermediately lethal tumors in a typical long-term animal bioassay. Journal of the Royal Statistical Society, Series C **50**: 171-185, 2001.

35. Dunson, DB and **Dinse**, GE: Bayesian models for multivariate current status data with informative censoring. Biometrics **58**: 79-88, 2002.

36. Takahashi, K, **Dinse**, GE, Foley, JF, Hardisty, JF, and Maronpot, RR: Comparative prevalence, multiplicity, and progression of spontaneous and vinyl carbamate-induced liver lesions in five strains of male mice. Toxicologic Pathology **30**: 599-605, 2002.

37. Peddada, SD, **Dinse**, GE, and Haseman, JK: A survival-adjusted quantal response test for comparing tumor incidence rates. Journal of the Royal Statistical Society, Series C **54**: 51-61, 2005.

38. Suttie, AW, **Dinse**, GE, Nyska, A, Moser, GJ, Goldsworthy, TL, and Maronpot, RR: An investigation of the effects of late-onset dietary restriction on prostate cancer development in the TRAMP mouse. Toxicologic Pathology **33**: 386-397, 2005.

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

40. Han, YY, **Dinse**, GE, and Davis, DL: Temporal and demographic patterns of non-Hodgkin's lymphoma incidence in Pennsylvania. International Journal of Occupational and Environmental Health **16**: 75-84, 2010.

41. Han, YY, Davis, DL, Weissfeld, JL, and **Dinse**, GE: Generational risks for cancers not related to tobacco, screening, or treatment in the United States. Cancer **116**: 940-948, 2010.

42. Han, YY, **Dinse**, GE, Umbach, DM, Davis, DL, and Weissfeld, JL: Age-period-cohort analysis of cancers not related to tobacco, screening, or HIV: Sex and race differences. Cancer Causes and Control **21**: 1227-1236, 2010.

43. Song, X, Sun, L, Mu, X, and **Dinse**, GE: Additive hazards regression with censoring indicators missing at random. Canadian Journal of Statistics **38**: 333-351, 2010.

44. **Dinse**, GE, Peddada, SD, Harris, SF, and Elmore, SA: Comparison of NTP historical control tumor incidence rates in female Harlan Sprague-Dawley and Fischer 344/N rats. Toxicologic Pathology **38**: 765-775, 2010.

45. Wang, QH and **Dinse**, GE: Linear regression analysis of survival data with missing censoring indicators. Lifetime Data Analysis **17**: 256-279, 2011.

46. **Dinse**, GE and Peddada, SD: Comparing tumor rates in current and historical control groups in rodent cancer bioassays. Statistics in Biopharmaceutical Research **3**: 97-105, 2011.

47. Resnik, DB, Barner, DD, and **Dinse**, GE: Dual-use review policies of biomedical research journals. Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science **9**: 49-54, 2011.

48. **Dinse**, GE: An EM algorithm for fitting a four-parameter logistic model to binary dose-response data. Journal of Agricultural, Biological, and Environmental Statistics **16**: 221-232, 2011.

49. **Dinse**, GE and Umbach, DM: Characterizing non-constant relative potency. Regulatory Toxicology and Pharmacology **60**: 342-353, 2011.

50. Wang, QH, **Dinse**, GE, and Liu, C: Hazard function estimation with cause-of-death data missing at random. Annals of the Institute of Statistical Mathematics **64**: 415-438, 2012.

51. Wang, Y, **Dinse**, GE, and Rogan, WJ: Birth weight, early weight gain and pubertal maturation: a longitudinal study. Pediatric Obesity **7**: 101-109, 2012.

52. Resnik, DB, Babson, G, and **Dinse**, GE: Minor changes to previously approved research: a study of university IRB policies. IRB: Ethics & Human Research **34**: 9-14, 2012.

53. Resnik, DB and **Dinse**, GE: Do U.S. research institutions meet or exceed federal requirements on instruction in responsible conduct of research? A national survey. Academic Medicine **87**: 1237-1242, 2012.

54. **Dinse**, GE and Umbach, DM: Parameterizing dose-response models to estimate relative potency functions directly. Toxicological Sciences **129**: 447-455, 2012.

55. Resnik, DB and **Dinse**, GE: Scientific retractions and corrections related to misconduct findings. Journal of Medical Ethics 2012 (published online, DOI: 10.1136/medethics-2012-100766).

Manuscripts Submitted:

1. Maoz, G, Brin, YS, **Dinse**, GE, Lazarovich, T, Barsky, V, Schwartz, L, Schwartz, A, Nyska, A, and Nyska, M: Feasibility of a silver ion delivery device in a rabbit osteomyelitis model: a preliminary study.

2. **Dinse**, GE and Umbach, DM: Quantifying relative potency in dose-response studies.

Manuscripts In Preparation:

1. Lee, KW, Cobb, LJ, Suttie, A, Goldsworthy, T, Moser, G, **Dinse**, GE, Cohen, P and Maronpot, RR: Administration of insulin-like growth factor (IGF)-1 but not growth hormone (GH) increases prostate cancer incidence in calorically restricted TRAMP mice.

2. **Dinse**, GE: A cautionary note about fitting dose-response models to binary data, with emphasis on a Hill model for tumor incidence rates.

3. **Dinse**, GE and Umbach, DM: Statistical methods for relative potency functions.

4. **Dinse**, GE and Dunson, DB: Simple Bayesian estimation of smooth hazard curves with flexible predictor effects.

5. **Dinse**, GE, Pennell, M, and Dunson, DB: Causal inferences in carcinogenicity studies.

6. **Dinse**, GE and Dunson, DB: Bayesian analysis of constrained hazard functions.

Proceedings, Reviews, and Book Chapters:

1. **Dinse**, GE: Estimating tumor prevalence, lethality and mortality. In: Proceedings of the Symposium on Long-term Animal Carcinogenicity Studies: A Statistical Perspective. American Statistical Association, Washington, DC, 91-99, 1985.

2. **Dinse**, GE: Statistical analysis of long-term animal cancer studies. In: Toxicology and Risk Assessment. Eds. AM Fan and LW Chang, Marcel Dekker, New York, 483-502, 1996.

3. **Dinse**, GE: Tumor incidence experiments. In: Encyclopedia of Biostatistics (Volume 6). Eds. P Armitage and T Colton, John Wiley, Chichester, 4597-4609, 1998.

4. **Dinse**, GE: Three-state carcinogenicity model. In: Encyclopedia of Environmetrics (Volume 1). Eds. A El-Shaarawi and W Piegorsch, John Wiley, Chichester, 263-271, 2001.

5. **Dinse**, GE: Three-state carcinogenicity model. In: Encyclopedia of Environmetrics (second edition). Eds. A El-Shaarawi and W Piegorsch, John Wiley, Chichester (in press).

Letters:

1. Davis, DL, **Dinse**, GE, and Hoel, DG: Response to a letter to the editor. Science News **145**: 291, 1994.

2. Davis, DL, **Dinse**, GE, and Hoel, DG: Response to two letters to the editor. Journal of the American Medical Association **272**: 199-200, 1994.

Invited Presentations:

1. **Dinse**, GE: "The use of logistic regression in the analysis of prevalence data from animal tumorigenicity experiments." Meeting of the local chapter of the American Statistical Association, Research Triangle Park, NC, June 6, 1984.

2. Haseman, JK and **Dinse**, GE: "Statistical issues in the analysis of tumor incidence data from laboratory animal carcinogenicity studies." Summer Research Conference in Statistics, Arkadelphia, AR, June 14, 1984.

3. **Dinse**, GE: "Estimating tumor prevalence, lethality and mortality." Symposium on Long-term Animal Carcinogenicity Studies: A Statistical Perspective, Washington, DC, March 6, 1985.

4. **Dinse**, GE: "Statistical analysis of tumorigenicity data." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Atlanta, GA, March 17, 1986.

5. **Dinse**, GE: "Simple parametric methods for survival/sacrifice experiments." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Boston, MA, March 29, 1988.

6. **Dinse**, GE: "Constrained transition rates in the analysis of animal carcinogenicity studies." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Los Angeles, CA, August 9, 1990.

7. **Dinse**, GE: "Constant risk differences in the analysis of animal carcinogenicity studies." Local Meeting of the North Carolina Chapter of the American Statistical Association, Research Triangle Park, NC, September 19, 1990.

8. **Dinse**, GE: "Survival-adjusted analysis of tumor incidence data in single-sacrifice animal experiments." NIH Conference on Current Topics in Biostatistics, Bethesda, MD, January 26, 1993.

9. **Dinse**, GE, and Dunson, DB: "Bayesian modeling of multivariate current status data with applications to animal carcinogenicity experiments." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Alexandria, VA, March 19, 2002.

10. **Dinse**, GE, Peddada, SD, and Kissling, GE: "A survival-adjusted test for comparing tumor incidence rates using historical control data." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Minneapolis, MN, August 10, 2005.

11. **Dinse**, GE, and Peddada, SD: "Statistical inference under order restrictions with applications to toxicology." Current and Future Trends in Nonparametrics, Columbia, SC, October 11, 2007.

12. **Dinse**, GE: "Analysis of survival data with missing censoring indicators." International Chinese Statistical Association Applied Statistics Symposium, New York City, NY, June 27, 2011.

13. **Dinse**, GE: "Relative potency functions for dose-response studies." Conference on Risk Assessment and Evaluation of Predictions, Silver Spring, MD, October 13, 2011.

Contributed Presentations:

1. **Dinse**, GE: "Nonparametric estimation based on partially-complete time and type of failure data." Joint Meetings of the American Statistical Association and the Biometric Society, Richmond, VA, March 23, 1981.

2. **Dinse**, GE and Lagakos, SW: "The analysis of tumor prevalence data in the presence of covariates." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Cincinnati, OH, August 19, 1982.

3. **Dinse**, GE: "A simulation study of alternative tumorigenicity trend tests." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Toronto, Ontario, Canada, August 17, 1983.

4. **Dinse**, GE: "Estimating disease prevalence and mortality when cause of death is uncertain for some animals." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Philadelphia, PA, August 15, 1984.

5. **Dinse**, GE, and Dunson, DB: "Bayesian analysis of constrained hazard functions." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Pittsburgh, PA, March 30, 2004.

6. **Dinse**, GE: "Using an EM algorithm to fit a 4-parameter logistic model." Joint Statistical Meetings of the American Statistical Association and the Biometric Society, Miami, FL, March 22, 2011.

7. Resnik, DB, Babson, G, and **Dinse**, GE: "Minor changes to approved research: a study of university policies." 2011 Advancing Ethical Research Conference, National Harbor, MD, December 2-4, 2011.