

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Brian J. Smith	POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME BJSMITH			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Saint Louis University	B.A.	1993	Mathematics
The University of Texas	M.S.	1995	Mathematical Statistics
The University of Iowa	Ph.D.	2001	Biostatistics

A. Positions and Honors.**Positions and Employment**

1993 – 1995 Research Scientist, Applied Research Labs, Advanced Sonar Group, The Univ. of Texas
 1995 – 1997 Graduate Teaching Assistant, Department of Biostatistics, The University of Iowa
 1997 – 1999 Graduate Research Assistant, Department of Biostatistics, The University of Iowa
 1999 – 2000 Graduate Teaching Assistant, Department of Biostatistics, The University of Iowa
 2000 – 2001 Graduate Research Assistant, Department of Statistics, The University of Iowa
 2001 – 2002 Visiting Assistant Professor, Department of Biostatistics, The University of Iowa
 2002 – present Assistant Professor, Department of Biostatistics, The University of Iowa

Other Experiences and Professional Memberships

1997 – present Member, American Statistical Association
 2001 – present Member, Eastern North American Region of the International Biometry Society
 2001 – present Member, Holden Comprehensive Cancer Center Protocol Review and Monitoring Committee
 2002 – present Member, Holden Comprehensive Cancer Center Data Safety and Monitoring Committee
 2004 – present Member, Holden Comprehensive Cancer Center Cancer Epidemiology Program
 2005 – present Co-Director, Holden Comprehensive Cancer Center Biostatistics Core

Honors

2006 ASA Conference on Radiation and Health, New Investigator Award for Research on Spatio-Temporal Modeling of Residential Radon, Pacific Grove, CA
 2006 U.S. Environmental Protection Agency Children's Environmental Health Recognition Award for contributions by Field RW, Steck DJ, Lynch CF, and Smith BJ to The Heartland Radon Research and Education Program, University of Iowa, Iowa City, IA
 2001 The University of Iowa College of Public Health Milford E. Barnes Award for most outstanding graduating Biostatistics student.
 2000 The Statistical Computing Section of the American Statistical Association John M. Chambers Statistical Software Award recognizing outstanding student work in software for statistics.
 1997 The University of Iowa Excellence in Teaching Award for Graduate Teaching Assistants.

B. Selected peer-reviewed publications

- Field RW, **Smith BJ**, Brus CP, Lynch CF, Neuberger JS, and Steck DJ. Retrospective temporal and spatial mobility of adult Iowa women. *Risk Analysis* 18(5):575-584, 1998.
- Smith BJ**, Field RW, and Lynch CF. Residential Rn-222 exposure and lung cancer: testing the linear no-threshold theory with ecologic data. *Health Physics* 75(1):11-17, 1998.

3. Fisher EL, Field RW, **Smith BJ**, Lynch CF, Steck DJ, and Neuberger JS. Spatial variation of residential radon concentrations: the Iowa Radon Lung Cancer Study. Health Physics 75(5):506-513, 1998.
4. Field RW, **Smith BJ**, and Lynch CF. Ecologic bias, a rejoinder to Cohen's response to "Residential Rn-222 exposure and lung cancer: testing the linear no-threshold theory with ecologic data". Health Physics 75(1), 31-33, 1998.
5. Field RW, **Smith BJ**, and Lynch CF. Response to Straja and Moghissi concerning ecologic studies. Health Physics 76(3):318-319, 1999.
6. Field RW, Lynch CF, Steck DJ, **Smith BJ**, Brus CP, Neuberger JS, Woolson RF, Fisher EF, Platz CE, and Robinson RA. Iowa Radon Lung Cancer Study. Radiation Research 151:101-103, 1999.
7. Field RW, **Smith BJ**, and Lynch CF. Cohen's paradox. Health Physics 77(3):328-329, 1999.
8. Field RW, Steck DJ, **Smith BJ**, Brus CP, Fisher EF, Neuberger JS, Platz CE, Robinson RA, Woolson RF, and Lynch CF. Residential radon gas exposure and lung cancer: the Iowa Radon Lung Cancer Study. American Journal of Epidemiology 151(11):1091-1102, 2000.
9. Field RW, Steck DJ, **Smith BJ**, Brus CP, Fisher EF, Neuberger JS, and Lynch CF. The Iowa Radon Lung Cancer Study phase I: residential radon gas exposure and lung cancer. The Science of the Total Environment 272:67-72, 2001.
10. Field RW, **Smith BJ**, Steck DJ, Lynch CF. Residential radon exposure and lung cancer: Variation in risk estimates using alternative exposure scenarios. Journal of Exposure Analysis & Environmental Epidemiology 12(3):197-203, 2002.
11. Rose SL, Goodheart MJ, DeYoung BR, **Smith BJ**, and Buller RE. p21 expression predicts outcome in p53-null ovarian cancer. Clinical Cancer Research 9:1028-1032, 2003.
12. Rose SL, Robertson AD, Goodheart MJ, **Smith BJ**, DeYoung BR, Buller RE. The impact of p53 Protein Core Domain Structural Alteration on Ovarian Cancer Survival. Clinical Cancer Research 9:4130-4144, 2003.
13. Joudi FN, **Smith BJ**, O'Donnell MA, Konety B. Contemporary management of superficial bladder cancer in the United States: a pattern of care analysis. Urology 62:1083-1088, 2003.
14. Stone PJ, Goodheart MJ, Rose SL, **Smith BJ**, DeYoung BR, Buller RE. The influence of microvessel density on ovarian carcinogenesis. Gynecologic Oncology 90:566-571, 2003.
15. Field RW, Smith BJ, Platz CE, Robinson RA, Neuberger JS, Brus CP, Lynch CF. Lung Cancer Histologic Type in the Surveillance, Epidemiology, and End Results Registry Versus Independent Review. Journal of the National Cancer Institute 96:1105-1107, 2004.
16. Dennis LK, Snetselaar LG, **Smith BJ**, Stewart RE, Robbins ME. Problems with the Assessment of Dietary Fat in Prostate Cancer Studies. American Journal of Epidemiology 160(5):436-444, 2004.
17. Jacobson GM, Kamath RS, **Smith BJ**, Goodheart M. Thromboembolic events in patients treated with definitive chemotherapy and radiation therapy for invasive cervical cancer. Gynecologic Oncology, 96:470-474, 2005.
18. Humann MJ, Donham KJ, Jones ML, Achutan C, **Smith BJ**. Occupational Noise Exposure Assessment in Intensive Swine Farrowing Systems: Dosimetry, Octave Band, and Specific Task Analysis. Journal of Agromedicine 10(1): 23-37, 2005.S
19. Robinson JG, **Smith B**, Maheshwari N, Schrott H. "Pleiotropic" Effects of Statins: Benefit Beyond Cholesterol Reduction? A Meta-regression Analysis. Journal of the American College of Cardiology 46:1855-1862, 2005.
20. Yang GS, Bishop W, **Smith BJ**, Goudy S, Bauman NM. Radiographic and Endoscopic Measurement of Esophageal Length in Pediatric Patients. The Annals of Otolaryngology, Rhinology, and Laryngology 114(8):587-592, 2005.
21. Joudi FN, **Smith BJ**, O'Donnell MA, Konety BR. The Impact of Age on Response of Patients with Superficial Bladder Cancer to Intravesical Immunotherapy. The Journal of Urology 175(5):1634-1640, 2006.
22. Konety BR, Veerasathpurush A, Modak S, **Smith B**, Luft HS. Mortality Following Major Surgery for Urologic Cancers in Specialized Urology Hospitals: Are They Any Better? Journal of Clinical Oncology 1:24(13):2006-12, 2006.
23. Weyer PJ, **Smith BJ**, Feng ZF, Kantamneni JR, Riley DG. Comparison of nitrate levels in raw water and finished water from historical monitoring data on Iowa municipal drinking water supplies. Environmental Monitoring and Assessment 116(1-3):81-90, 2006.
24. Joudi FN, **Smith BJ**, O'Donnell MA, Konety BR. The impact of age on the response of patients with superficial bladder cancer to intravesical immunotherapy. Journal of Urology 175(5):1634-9; discussion 1639-40, 2006.
25. Joudi FN, **Smith BJ**, O'Donnell MA, National BCG-Interferon Phase 2 Investigator Group. Final Results from a National Multicenter Phase II Trial of Combination Bacillus Calmette-Guérin plus Interferon α -2B for Reducing Recurrence of Superficial Bladder Cancer. Urologic Oncology 24(4):344-348, 2006.
26. Slane BG, Aykin-Burns N, Andrekopoulos C, Kalyanaraman B, **Smith BJ**, Domann FE, Spitz DR. Mutation of Succinate Dehydrogenase Subunit C Results in Increased O₂•-, Oxidative Stress, and Genomic Instability. Cancer Research 66(15):7615-7620, 2006.
27. Jacobson G, Betts V, **Smith B**. Change in Volume of Lumpectomy Cavity during External Beam Irradiation of the Intact Breast. International Journal of Radiation Oncology, Biology, and Physics 65(4):1161-1164, 2006.

28. Bowles JA, Link BK, Allan B, Beuerlein G, Campbell MA, Marquis D, Ondek B, Wooldridge JE, **Smith BJ**, Breitmeyer JB, Weiner GJ. Anti-CD20 Monoclonal Antibody with Enhanced Affinity for CD16 Activates NK Cells at Lower Concentrations and More Effectively than Rituximab. *Blood* 108(8):2648-2654, 2006.
29. Zhang Y, **Smith BJ**, Spitz DR, Oberley LW. Enzymatic Activity is Necessary for the Tumor Suppressive Effects of MnSOD. *Antioxidants and Redox Signaling*, 2006 Jul-Aug; 8 (7-8): 1282-93.
30. Lal G, Padmanabha L, **Smith BJ**, Nicholson RM, Howe JR, O'Dorisio MS, Domann FE. RIZ1 is Epigenetically Inactivated by Promoter Hypermethylation in Thyroid Carcinoma. *Cancer* 107(12):2752-2759, 2006.
31. Liu J, Du J, Zhang Y, Sun W, **Smith BJ**, Oberley LW, Cullen JJ. Suppression of the malignant phenotype in pancreatic cancer by overexpression of phospholipid hydroperoxide glutathione peroxidase. *Human Gene Therapy*. 2006 Jan; 17(1):105-16.
32. **Smith BJ**, Field RW. Effect of Housing Factors and Surficial Uranium on the Spatial Prediction of Residential Radon in Iowa. *Environmetrics* 18(5):481-497, 2006.

C. Research Support

Ongoing Research Support

5 P30 CA86862-07 (PI: George J. Weiner) 7/1/00-6/30/10

National Cancer Institute
Cancer Center Support Grant
Role: Biostatistician

This Cancer Center Support Grant is to support the Research activities of the Holden Comprehensive Cancer Center at The University of Iowa.

P50 CA097274-04 (Weiner, George)

National Cancer Institute
Lymphoma Specialized Program of Research Excellence 9/1/02-6/30/11
Role: Biostatistics Core

The objectives of the SPORE are to understand the immunological mechanisms underlying anti-lymphoma monoclonal antibody therapy in an effort to treat lymphomas using a variety of modalities.

N01-PC-35143 (Lynch, Charles)

National Cancer Institute
Evaluation of the Edit Process as Applied to Lung Cases (SEER) 8/1/03-7/31/10
Role: Biostatistician

The goal is to assess the reason(s) for data field changes being made in the cancer specific fields of abstracts during the manual edit process, and application of SEER*Edits and Iowa specific edits.

1 R21 CA110486-01A2 PI: Williams, Richard 5/19/06-4/30/08

Ad5-TRAIL Gene Therapy for Prostate Cancer
DOD
Role: Co-Investigator (Biostatistician)

A Phase I clinical trial to determine the local and systemic toxicity associated with intraprostatic injection of Ad5-TRAIL delivered in either fluid-phase or Gelfoam. Examine the distribution of Ad5-TRAIL within the human prostate after transperineal injection and determine the effect of transperineal injection on prostate cancer.

1 T32 GM077973-01 (Chaloner, Kathryn)

Statistics in Microbiology, Infectious Diseases & Bioinformatics 8/1/06-6/30/07
NIH/NIGMS (yr 1 of projected 5 yrs)
Role: Mentor

The goal of this training program is to train biostatisticians to take a leadership role in developing new interdisciplinary scientific research. This will be achieved by providing rigorous training in the disciplines of statistics and microbiology, and also providing interdisciplinary training in bioinformatics. This training program will provide a structure that will strengthen existing collaborations, and train a new generation of biostatisticians to advance biomedical and clinical research.

Surveillance, Epidemiology, and End
Results (SEER) Program
NIH N01PC35143, Mods 8 & 9
PI: Lynch, Charles
Biostatistician: Brian J. Smith

6/1/07-9/30/07

The goal of this research is to assess the reason(s) for data field changes being made in the cancer specific fields of abstracts during the manual edit process, and application of SEER*Edits and Iowa specific edits

Completed Research Support

5883CA02 (PI: Donham, Kelley)

2/1/04-1/5/05

Iowa Department of Public Health (through CDC)
Comprehensive Assessment of Rural Health in Iowa

The primary goal of this research is to assess the feasibility of developing a surveillance system that links health encounter data with environmental exposure data within a geographic information system. Provide statistical support in modeling environmental exposures and assessing the associated disease risk.

5 R01 CA85942-02 (PI: Robert W. Field)

1/17/01-12/31/05

National Cancer Institute
Iowa and Missouri Radon Lung Cancer Studies
Role: Co-investigator

The goals of this study are: (1) to examine whether residual radon progeny, as measured by radon "glass" detectors, are associated with increased risk of developing lung cancer after controlling for confounders; (2) to determine whether the shape of the dose response curve is linear or nonlinear; and (3) whether exposure to radon progeny are related to incidence of adenocarcinoma.

RSGPB-04-008-01-CPPB (PI: Leslie K. Dennis)

1/1/2004-12/31/05

Cumulative Sun Exposure and Melanoma: A Meta-Analysis
American Cancer Society
Role: Co-Investigator: Brian J. Smith

The primary goal is to conduct a meta-analysis of published estimates of the effect of sun exposure on melanoma risk. Develop meta-analysis models, perform the analyses, and provide general statistical support.

PC030310 PI: Leslie K. Dennis

Sexually Transmitted Infections as a Risk Factor for Prostate
Cancer Among Military Personnel
DOD

4/1/2004-1/1/07

Co-Investigator: Biostatistician

The primary goal is to conduct a meta-analysis of published estimates of the effect of sexually transmitted infections on prostate cancer risk. Develop meta-analysis models, perform the analyses, and provide general statistical support.