

CURRICULUM VITAE

Kevin Dobbin

ADDRESS

College of Public Health
University of Georgia
Health Sciences Campus (HSC) B.S. Miller Hall
101 Buck Rd, Room 205
Athens GA 30602
Phone: 706-583-8112
Email: dobbinke@uga.edu

EDUCATION

2001 Ph.D. University of Minnesota at Twin Cities, Minnesota, in Statistics
1996 B.A. University of Colorado at Boulder, Colorado, in Mathematics
1987 B.A. St. John's College, Santa Fe, New Mexico, Great Books Program

PROFESSIONAL EXPERIENCE

2009- Assistant Professor of Biostatistics, College of Public Health, University of Georgia, Athens
2002-2008 Mathematical Statistician, National Cancer Institute, National Institutes of Health
2001-2002 Postdoctoral Fellow, National Cancer Institute, National Institutes of Health
1999-2001 Research Assistant, Minnesota Epilepsy Group, P.A., St. Paul
1998-2001 Lecturer, Department of Statistics, University of Minnesota, Twin Cities
1996-1998 Teaching Assistant and Research Assistant, University of Minnesota, Twin Cities

HONORS AND AWARDS

2009-2014 Distinguished Cancer Scholar, Georgia Cancer Coalition
2007 Performance Award, National Institutes of Health
2003 Performance Award, National Institutes of Health
2001-2002 Cancer Research Training Award, National Institutes of Health
2000 Student Paper Award, International Biometric Society, Eastern North American Region

- 1999-2001 Scholarship, College of Liberal Arts, University of Minnesota
- 1995-1996 J. Tour Scholarship in Mathematics, College of Arts and Sciences,
University of Colorado

PROFESSIONAL ACTIVITIES

Memberships

- American Statistical Association
The International Biometric Society, Eastern North American Region (ENAR)

Consulting, review and advisory

- National Cancer Institute's (NCI's) Cooperative Prostate Cancer Tissue Resource (2002-6)
- Colon Cancer Working Group of the NCI's Program for the Assessment of Clinical Cancer Tests (PACCT) (2004-8)
- Biomarkers Task Force of the NCI's Investigational Drug Steering Committee for the Clinical Trials Evaluation Program (2006-8)
- Ad hoc transition committees for R21/R33 grants in the NCI's Cancer Diagnosis Program (2002-8)
- NCI's Clinical Trials Evaluation Program Concept Review Committees (correlative studies, 2002-8)
- NCI's Clinical Trials Evaluation Program Protocol Review Committees (correlative studies, 2002-8)
- NCI's Lung Cancer Intergroup correlative study review committee (2007-8)
- NCI's Colon Cancer Intergroup correlative study review committee (2007-8)
- NCI's Childhood Cancer Therapeutically Applicable Research to Generate Effective Treatments (TARGET), Childhood Acute Lymphocytic Leukemia Pilot Project (2006-8)
- Scientific Committee for the 2008 ASCO-NCI-EORTC Annual Meeting on Molecular Markers in Cancer (2008)
- Statistical consultant, TMA design, National Cancer Institute Tissue Arrays Research Project (TARP)
- Ad hoc reviewer, National Cancer Institute's Thoracic Malignancy Steering Committee (TMSC) (2011)
- Organizing Committee, National Cancer Institute Workshop on Criteria for Use of Omics-Based Predictors in Clinical Trials (2011)
- Ad hoc reviewer, The Netherlands Organisation for Health Research and Development, Vidi Program (2012)

University Service

- 2009- Biostatistics Curriculum Committee, Department of Epidemiology and Biostatistics, University of Georgia
- 2009- Biostatistics Admissions Committee (Chair 2010-2011), Department of Epidemiology and Biostatistics, University of Georgia

- 2009- Undergraduate Minor in Public Health Committee, College of Public Health, University of Georgia
- 2010 Recommendation for Faculty Promotion Review, Queens University, Ontario, Canada
- 2013- Awards Committee, College of Public Health, University of Georgia

Other University Activities

- 2009- Associate Member, Biomedical and Health Science Institute, University of Georgia
- 2009- Member, Institute of Bioinformatics, University of Georgia

Journal Editorial/Consulting

- 7/2009-present Associate Editor, Biometrics
- 7/2012-present Associate Editor, Scandinavian Journal of Statistics
- 8/2013-present Statistical Consultant, Nature Journals Publishing Group
- 2/2014 Guest Editor, Cancer Informatics

Journal Referee

Journal of the National Cancer Institute
 Journal of Clinical Oncology
 Clinical Cancer Research
 Bioinformatics
 Biostatistics
 Statistics in Medicine
 Journal of the Royal Statistical Society, Series C, Applied Statistics
 Journal of the American Statistical Association
 PLoS One
 Physiological Genomics
 Journal of Statistical Planning and Inference
 Statistical Applications in Genetics and Molecular Biology
 American Statistician
 Genomics
 Biotechniques
 Pharmacogenomics
 Molecular Medicine
 Journal of Chemometrics
 Gastroenterology
 Cancer Informatics
 Gynecologic Oncology
 Journal of Biotechnology
 Biomed Central (BMC) Bioinformatics
 Biomed Central (BMC) Genomics
 Biomed Central (BMC) Cancer
 Expert Reviews of Molecular Diagnostics

Biometrical Journal
Functional and Integrative Genomics
Journal of Translational Medicine
Australian Journal of Experimental Agriculture

Grant Review

Ad hoc for National Science Foundation
Ad hoc for Collaborative Grant Competition of the City University of New York.
Modeling and Analysis of Biological Systems (MABS) Study Section, Center for Scientific Review, National Institutes of Health (June 2003)
Cancer Biomarkers Study Section (CBSS), Center for Scientific Review, National Institutes of Health (June 2009, October 2009)
Recovery Challenge Grant Study Section, Center for Scientific Review, National Institutes of Health (July 2009)
Georgia Cancer Coalition Grant Applications Reviewer (Fall 2010)
Member, National Cancer Institute, Clinical Assay Development Program, Special Emphasis Panel, 2011-2014.

Postdoctoral Training

2004 Genomics: Experimental and Computational Methods: FAES Graduate School, NIH, Bethesda, MD
2003 DNA Microarrays: Fabrication and Application: The Foundation for Advanced Education in the Sciences (FAES) Graduate School, National Institutes of Health, Bethesda, MD

COMMUNITY SERVICE

2009- Court Appointed Special Advocate (CASA) for Children, CASA Program of Clarke-Oconee County, Athens, GA
2005-2008 Court Appointed Special Advocate (CASA) for Children, CASA Program of Frederick County, Frederick, MD
2001-2005 Court Appointed Special Advocate (CASA) for Children, CASA Program of Montgomery County, Rockville, MD
1996-1997 Volunteer, Arthritis Foundation, Minneapolis, MN
1994-1996 Volunteer, Arthritis Foundation, Denver, CO
1994-1995 Volunteer, Boulder Arts Commission, Boulder, CO

CLASSROOM TEACHING

Biostatistics for Public Health Service (BIOS 2010-2010L)
Introductory Biostatistics I (BIOS 7010)

Survival Analysis (BIOS 6380)
 Clinical Trials (BIOS 8220)
 (Guest Lecturer) Introduction to Bioinformatics (BINF 6001)
 (Guest Lecturer) Biomarkers: Public Health, Clinical, and Environmental
 Toxicology Applications (EHSC 8250)

TEACHING AND STUDENTS

2009-2010 David Benkeser, Graduate Assistant
 2010 Stephanie Cooke, Institute of Bioinformatics student lab rotation
 2010-2013 Stephanie Cooke, Graduate Assistant
 2011- Sandra Esi Addo, Graduate Assistant
 2011- Alexei Ionan, Graduate Assistant

EXAM COMMITTEES

2010-2012	Jeannie Daniel, M.P.H. Advisor (Awarded 2012)
2010-2011	John Parmer, Ph.D. Exam Cmte (HPB, Awarded 2011)
2010-2011	Jeff Cook, Ph.D. Cmte (HPB)
2010-2012	Stephanie Cook, M.S. Advisor (Statistics, Awarded 2012)
2010-2012	Hannah Jackson, Ph.D. Exam Cmte (HPB, Awarded 2012)
2010-2013	Adeya Powell, M.S. Co-Advisor (Statistics, Awarded 2013)
2011-	Sandra Addo, Ph.D. Co-Advisor (Statistics)
2011-2013	Wenjuan Zhang, Ph.D. Exam Cmte (Bioinformatics, Awarded 2013)
2011-	Deli Liu, Ph.D. Exam Cmte (Bioinformatics)
2012-2013	Juliet Sekandi, Dr.P.H. Exam Cmte (Epidemiology, Awarded 2013)
2010-	Dean Meyer, Ph.D. Exam Cmte (EHS)
2012-	Haileab Halifu, Ph.D. Exam Cmte (Statistics)
2012-	Nan Zhang, Ph.D. Exam Cmte (Statistics)

PUBLICATIONS

Publications pending

1. Ionan AC, Polley LM, McShane LM, Dobbin KK (in revision) A cautionary tale of confidence interval methods for the intraclass correlation coefficient.
2. Dobbin K.K. and Ionan A.C. (submitted to Computational Statistics and Data Analysis) Sample size methods for constructing confidence intervals for the intraclass correlation coefficient.
3. Safo S., Song X. and Dobbin K.K. (submitted to Annals of Applied Statistics) Sample size for high dimensional regularized logistic regression.

Peer reviewed Journal Articles

1. Ahn J., Lee J., Dobbin K.K., (accepted) Covariance adjustment for batch effect in gene expression data. *Statistics in Medicine*.
2. Sekandi J.N., List J., Luzze H., Yin X., Dobbin K.K., Corso P.S., Oloya J., Okwera A., Whalen C.C. (2014) The yield of undetected tuberculosis and human immunodeficiency virus from active case finding in urban Uganda. *The International Journal of Tuberculosis and Lung Disease*.
3. Dobbin K. K. and Song X. (2013) A sample size method for training high dimensional risk predictors developed from Cox regression. *Biostatistics*. 14: 639-652.
4. Robb C, Extermann M, Jacobsen P, Lee A, Dobbin K (2013) Health and personal resources in older cancer patients undergoing chemotherapy. *Journal of Geriatric Oncology*. 4(2): 166-173.
5. Lawrence J, Saba C, Gogal R Jr, Lamberth O, Vandenplas ML, Hurley DJ, Dubreuil P, Hermine O, Dobbin K and Turek M (2012) Masitinib demonstrates antiproliferative and proapoptotic activity in primary and metastatic feline injection-site sarcoma cells. *Veterinary and Comparative Oncology*. 10(2): 143-154.
6. Dobbin K. K. and Cooke S. (2011) Lower confidence bounds for prediction accuracy in high dimensions via AROHIL Monte Carlo. *Bioinformatics*, 27: 3129-3134.
7. Dobbin K. K. and Simon R.M. (2011) Optimally splitting cases for training and testing high dimensional classifiers. *BMC Medical Genomics*, 4:31.
8. Harvey R.C., Wang X., Davidson G.S., Ar K., Dobbin K.K., Bedrick E., Chen I.M., Wilson C.S., Wharton W., Atlas S.R., Hunger S.P., Davidas M., Pullen, J., Carroll A.J., Borowitz, M.J., Bowman W.P., Carroll W.L., Camitta B., Reaman G.H., Bhojwani D., and Willman C.L. (2010) Identification of novel cluster groups in pediatric high risk B-precursor Acute Lymphoblastic Leukemia by gene expression profiling: Correlation with genome-wide DNA copy number alterations, clinical characteristics, and outcome. *Blood*: August 10, 2010. Epub ahead of print. PMID: 20699438.
9. Harvey R.C., Mullighan C.G., Chen I, Wharton W., Mikhail F.M., Carroll A.J., Kang H., Liu W., Dobbin K.K., Smith M.A., Carroll W.L., Davidas, M., Bowman W.P., Camitta B., Reaman G.H., Hunger S.P., Downing J.R., Willman C.L. (2010) Rearrangement of CRLF2 is associated with mutation of JAK kinases, alteration of IKZF1, Hispanic/Latino ethnicity and a poor outcome in pediatric B-progenitor acute lymphoblastic leukemia. *Blood*: 115(26): 5312-21. PMID: 20139093.

10. Dancey J.E., Dobbin K.K., Grever M.R., Groshen S., Jessup J.M., Koehler M., Shankar L.K., Stadler W.M., True L.D., Gravel A. on behalf of the Biomarker Task Force of the NCI Investigational Drug Steering Committee (2010) Guidelines for the development and incorporation of biomarker studies in early clinical trials of novel agents. *Clinical Cancer Research*, 16(6): 1745-55.
11. Dobbin, K.K. (2009) A method for constructing a confidence bound for the actual error rate of a prediction rule in high dimensions. *Biostatistics*. 10: 282-296.
12. Shedden K., Taylor J.M., Enkemann S.A., Tsao M.S., Yeatman T.J., Gerald W.L., Eschrich S., Jurisica I., Giordano T.J., Misek D.E., Chang A.C., Zhu C.Q., Strumpf D., Hanash S., Shepherd F.A., Ding K., Seymour L., Naoki K., Pennell N., Weir B., Verhaak R., Ladd-Acosta C., Golub T., Gruidl M., Sharma A., Szoke J., Zakowski M., Rusch V., Kris M., Viale A., Motoi N., Travis W., Conley B., Seshan V.E., Meyerson M., Kuick R., Dobbin K.K., Lively T., Jacobson J.W., Beer D.G. (2008) Gene expression-based survival prediction in lung adenocarcinoma: a multi-site, blinded validation study. *Nature Medicine*. 14(8): 822-7.
13. Dobbin, K.K., Zhao, Y. and Simon, R.M. (2008) How large a training set is needed to develop a classifier for microarray data? *Clinical Cancer Research*, 14: 108-114.
14. Kajdacsy-Balla A, Geynisman JM, Macias V, Setty S, Nanaji NM, Berman JJ, Dobbin K, Melamed J, Kong X, Bosland M, Orenstein J, Bayerl J, Becich MJ, Dhir R, Datta MW and the Cooperative Prostate Cancer Tissue Resource (2007) Practical Aspects of Planning, Building and Interpreting Tissue Microarrays: The Cooperative Prostate Cancer Tissue Resource Experience. *Journal of Molecular Histology*, 38: 113-21.
15. Dobbin, K.K. and Simon, R.M. (2007) Sample size planning for developing classifiers using high dimensional DNA microarray data. *Biostatistics*, 8: 101-117.
16. Dobbin, K.K., Shih, J.H. and Simon, R.M. (2005) Comment on 'Evaluation of the gene-specific dye bias in cDNA microarray experiments'. *Bioinformatics*, 21, 2803-2804.
17. Dobbin, K.K., Kawasaki, E.S., Petersen, D.W., and Simon, R.M. (2005) Characterizing dye bias in microarray experiments. *Bioinformatics*, 21: 2430-2437.
18. Dobbin, K., Beer, D.G., Meyerson, M., Yeatman, T., Gerald, W., Jacobson, J., Conley, B., Buetow, K., Heiskanen, M., Simon, R., Minna, J., Girard, L., Misek, D., Taylor, J., Hanash, S., Naoki, K., Hayes, D. N., Ladd-Acosta, C., Enkemann, S., Viale, A., Giordano, T. (2005) Inter-laboratory comparability study of cancer gene expression analysis using oligonucleotide microarrays. *Clinical Cancer Research*, 11: 565-72.
19. Datta, M.W., Dhir, R., Dobbin, K., Melamed, J., Becich, M.J., Orenstein, J.M., Kajdacsy-Balla, A.A., Bosland, M.C., Patel, A., Macias, V., Berman, J.J., and the Cooperative Prostate Cancer Tissue Resource (2005) Prostate cancer in patients

- with screening serum PSA values less than 4.0 ng/dl: Results from the Cooperative Prostate Cancer Tissue Resource . *Journal of Urology*, 173: 1546-1551.
20. Dobbin, K. and Simon, R. (2005) Sample Size Determination in Microarray Experiments for Class Comparison and Prognostic Classification. *Biostatistics*, 6: 27-38.
 21. Shih, J., Michalowska, A., Dobbin, K., Ye, Y., Qiu, T. and Green, J. (2004) Effects of pooling mRNA in microarray class comparisons. *Bioinformatics*, 18: 3318-3325.
 22. Berman, J.J., Datta, M., Kajdacsy-Balla, A., Melamed, J., Orenstein, J., Dobbin, K., Patel, A., and Dhir, R. (2004) The tissue microarray data exchange specification: implementation by the Cooperative Prostate Cancer Tissue Resource. *BMC: Bioinformatics*, 5: 19.
 23. Dobbin, K., Shih, J. and Simon, R. (2003) Questions and Answers on Design of Dual-label Microarrays for Identifying Differentially Expressed Genes. *Journal of the National Cancer Institute*, 95: 1362-1369.
 24. Simon, R. and Dobbin, K. (2003) Experimental Design of DNA Microarray Experiments. *Biotechniques*, March Supplement: 16-21.
 25. Dobbin, K. and Louis, T. (2003) Accommodating Stochastic Departures from Percentile Invariance in Causal Models. *Journal of the Royal Statistical Society, Series B*, 65: 837-849.
 26. Dobbin, K., Shih, J., and Simon, R. (2003) Statistical Design of Reverse Dye Microarrays. *Bioinformatics*, 19: 803-810.
 27. Simon, R., Radmacher, M., Dobbin, K. and McShane, L. (2003) Pitfalls in the Use of DNA Microarray Data for Diagnostic and Prognostic Classification. *Journal of the National Cancer Institute*, 95: 14-18.
 28. Simon, R., Radmacher, M. and Dobbin, K. (2002) Design of Studies Using DNA Microarrays. *Genetic Epidemiology*, 23: 21-36.
 29. Dobbin, K. and Simon, R. (2002) Comparison of Microarray Designs for Class Comparison and Class Discovery. *Bioinformatics*, 18: 1438-1445.

Peer reviewed reports

1. Dobbin, KK (2006) Experimental design of DNA microarray studies. In: Validation of toxicogenomic technologies: A workshop summary National Research Council of the National Academies of Science. <http://dels.nas.edu/emergingissues/index.shtml>.

Letters

1. Dobbin, K.K. (2007) Letter Re. A five-gene signature and clinical outcome in non-small-cell lung cancer. *New England Journal of Medicine*, 356: 1582.

Book Chapters

1. Dobbin, K.K. (2014) Statistical Design and Analysis of Biomarker Studies. In: *Molecular Diagnostics for Melanoma*. Springer, New York. ISBN 978-1-62703-726-6.
2. Dobbin, K. and Simon, R. (2009) Statistical Issues in the Interpretation and Design of Microarray Experiments. In: *Bioinformatics in Cancer and Cancer Therapy*. Humana Press, New York. Book information website: <http://www.springer.com/humana+press/cancer+research/book/978-1-58829-753-2>.
3. Dobbin, K. and Simon, R. (2005) Experimental design [Specialist Review]. In: *Encyclopedia of Genetics, Genomics, Proteomics and Bioinformatics*. John Wiley and Sons, New York. Book website: <http://www.mrw.interscience.wiley.com/ggpb/>

Abstracts

1. Jessup JM, Dobbin KK, Hamilton S, Thibodeau S, Redston M, Taube S, Wang Z, Benedetti J and the Program for the Assessment of Clinical Cancer Tests (PACCT) 18qLOH Team. (2009) Interlaboratory assay reproducibility study for loss of heterozygosity on chromosome 18 (18qLOH) in colon cancer. *Journal of Clinical Oncology*, 27: Supplement, Meeting Abstract 4052.

PRESENTATIONS

1. Sample size methods for training classifiers developed from regularized logistic regression. International Biometric Society, Eastern North American Region (ENAR) Annual Meeting, Baltimore, MD, March 2014.
2. An alternative approach to sample size estimation for risk prediction. Joint Statistical Meetings. Montreal, Quebec, Canada. August 2013.
3. Reducing dimension to improve computational efficiency in high dimensional studies. International Biometric Society, Eastern North American Region (ENAR) Annual Meeting, Washington, DC, March 2012.
4. (Invited) Assessing analytic reproducibility of predictions. NCI Workshop on Criteria for Use of Omics-Based Predictors in Clinical Trials, Bethesda, MD, June 2011.

5. A sample size method for training high dimensional risk predictors from right-censored survival data. International Biometric Society, Eastern North American Region (ENAR) Annual Meeting, Miami, FL, March 2011.
6. (Invited) Statistical issues in the design and analysis of high dimensional data. Second Annual Short Course on Frontiers in Quantitative Methods for Cancer Research. Augusta, GA, USA, November 2010.
7. Approximating high-dimensional simulations in low-dimensional space, with application to microarray prediction error estimation. Joint Statistical Meetings, Vancouver, BC, Canada, August 2010.
8. (Invited) Optimally splitting cases for training and testing high dimensional microarray classifiers. Computational Systems Biology Laboratory, University of Georgia, Athens, GA, May 2010.
9. (Invited) Optimally splitting cases for training and testing high dimensional microarray classifiers. Biostatistics Forum, University of South Carolina, Arnold School of Public Health, Columbia, South Carolina, March 2010.
10. (Invited) Towards a faster method for constructing a confidence interval for a classifier's accuracy in high dimensions. University of Georgia Statistics Department Colloquia Series. Athens, GA, August, 2009.
11. Lower confidence bounds for prediction accuracy in high dimensions with feature selection. Joint Statistical Meetings, Washington, DC, August 2009.
12. (Invited) Statistical misdiagnoses: Examples from the design of microarray experiments. University of Georgia Statistics Department Graduate Student Seminars, Athens, GA, March 2009.
13. (Invited) Developing and validating genomic classifiers. Meeting of the International Biometric Society, Eastern North American Region (ENAR), Arlington, VA, March 2008.
14. (Invited) Statistical issues in biomarker development. Workshop on profiling of immune response to guide cancer diagnosis, prognosis and prediction of therapy, Bethesda, MD, November 2007.
15. (Invited) How many samples are needed to develop a classifier from microarray data? International Chinese Statistical Association Annual Meeting, Raleigh, NC, June 2007.
16. (Invited) Statistical similarities and differences: mRNA vs. miRNA profiling studies. Workshop on MicroRNA: Potential for Cancer Detection, Diagnosis, and Prognosis, Rockville, MD, November 2006.
17. Sample size for predictive inference using microarray data. XXIIIrd International Biometric Conference, Montreal, Quebec, Canada, July 2006.
18. (Invited) Prognostic and predictive factors in cancer. American Joint Committee on Cancer meeting. Washington, DC, April 2006.

19. Developing reproducible genomic classifiers. National Cancer Institute's Strategic Partnering to Evaluate Cancer Signatures (SPECS) investigators' meeting. San Francisco, California, USA, February 2006.
20. (Invited) Statistical issues with marker validation. Resources for melanoma research workshop. National Cancer Institute and Melanoma Research Foundation. Gaithersburg, Maryland, USA, October 2005.
21. (Invited) Incorporating Data from Multiple Labs to Develop Prognostic Predictors. Cambridge Healthtech Institute workshop: From gene expression profiling to validated biology. Cambridge, Massachusetts, USA, October 2005.
22. (Invited) Experimental design issues in expression profiling. National Academy of Sciences, 10th meeting of the Committee on Emerging Issues and Data on Environmental Contaminants, Washington, DC, July 2005.
23. (Invited) Sample comparability. A joint Food and Drug Administration, Johns Hopkins University, and the Pharmaceutical Researchers and Manufacturers of America Workshop, Rockville, Maryland, USA, July 2005.
24. Interlaboratory comparability study of cancer gene expression analysis using oligonucleotide microarrays. Minisymposium presentation, American Association of Cancer Researchers 96th Annual Meeting, Anaheim, California, USA, April 2005.
25. Sample size determination in microarray experiments for class comparison and prognostic classification. Joint Statistical Meetings, Toronto, Ontario, Canada, August 2004.
26. (Invited) Design of microarray studies. Infocast's Microarray Data Analysis, Rockville, Maryland, USA, June 2004.
27. (Invited) Statistical design of microarrays. Microarray Interest Group Meeting, National Institutes of Health, Bethesda, Maryland, USA, August 2003.
28. Designing cDNA microarray experiments for cancer research: issues in class comparison, class discovery, and dye bias. Conference on New Directions in Experimental Design (DAE), Chicago, Illinois, USA, May 2003.
29. Statistical design of reverse dye microarrays, International Biometric Society (ENAR), Tampa, Florida, USA, March 2003.
30. Some issues in microarray experimental design, International Biometric Society (ENAR), Arlington, Virginia, USA, March 2002.
31. Stochastic permutation models for causal inference in clinical trials, Joint Statistical Meetings, Atlanta, Georgia, USA, August 2001.
32. Dose-response curve recovery in placebo-controlled clinical trials. International Biometric Society (ENAR), Chicago, Illinois, USA, March 2000.

RESEARCH GRANTS

Note: NIH employees are not eligible for extramural or NSF funding, so I became eligible for funding in 2009.

SUBMITTED

1. R34/R01. Effectiveness of directly observed therapy (DOT) and mobile phone-enhanced adherence (mPAD) monitoring of tuberculosis treatment in Africa. NIH. PI: Whalen. Role: Co-Investigator. 16% Academic credit. Summary: This is a randomized clinical trial in Uganda to determine whether time-to-tuberculosis cure is equivalent between mPAD and DOT.
2. PCORI. Evaluation of a stroke nurse navigator in improving patient outcomes of stroke in a rural underserved area. PCORI. PI: Chumbler (with Hess at GRU). Role: Co-Investigator. 20% Academic credit. Summary: This is a proposal for a randomized trial to compare standard of care to a stroke nurse navigator (SNN) intervention in patients who have recently suffered from Stroke in Georgia. The primary outcome measure is stroke-specific quality of life.
3. R03. Experimental designs for studying ratios of variance components. NIH. PI: Dobbin. 100% Academic credit. Summary: The goal of this project is to develop improved methods and software for designing cancer biomarker reproducibility studies.

FUNDED

4. U01. Discovery and development of cancer glycomarkers. NIH. PI: Pierce. Role Co-Investigator. 7% Academic credit. Summary: The role of this project is to develop proteomic and glycomic biomarkers which have cancer of potential clinical utility as early detection, diagnostic, or prognostic markers.
5. U01. Glycomics laboratory for the early detection of epithelial ovarian cancer. NIH. PI Pierce. Role: Co-Investigator. 10% Academic credit. The general role of this project is to investigate glycomic biomarkers in cancer.
6. R15. Altered microRNA as a biomarker for the onset of obesity-related women's cancers. NIH. PI: Murph. Role: Co-Investigator. 20% Academic credit. Summary: The goal of this research is to investigate circulating miRNA expression levels in transgenic mice and humans and evaluate their potential as biomarkers of cancer risk.
7. R21. Evaluation of sample sizes used to train classifiers and prognostic predictors. NIH. PI: Dobbin (with Ahn in Statistics). 40% Academic credit. Summary: Develop sample size methods for studies to develop classifiers and prognostic predictors in high dimensions, and batch effect removal methods for combining publicly available datasets.

8. GRA. Distinguished cancer clinicians and scientists program. Georgia Research Alliance. PI: Dobbin. 100% Academic credit. Summary: Develop a cancer research program.
9. MAF. Effect of tyrosine kinase inhibition on radiosensitivity of feline vaccine-associated sarcoma cells. PI: Lawrence. Role: Co-investigator. 0% Academic credit. Summary: To evaluate the effectiveness of masitinib in downregulating PDGFR signaling and thereby increase the sensitivity of cats with vaccine-associated sarcomas to radiation therapy.

NOT FUNDED

10. R15. Investigating therapeutic role of Mir-30c02 in chemoresistant ovarian cancer. NIH. PI: Murph. Role: Co-Investigator. 10% Academic credit. Summary: The goal of this project was to investigate levels of circulating micro-RNA in transgenic mice and assess potential as biomarkers of cancer risk.
11. R01: Novel dimension reduction method and applications for high dimensional studies. NIH. PI: Dobbin. Co-I: Yin (Statistics). 60% Academic credit. Summary: The goal of this project was to develop dimension reduction methods for high dimensional data that could be used for analyzing data from next generation sequencing, single nucleotide polymorphism chips, and microarrays.
12. R01: Novel dimension reduction method and applications for high dimensional studies. NIH. PI: Dobbin. Co-I: Yin (Statistics). 60% Academic credit. Summary: Revision and resubmission.
13. R01: Testing and improving oncolytic parainfluenza virus 5. NIH. PI: Biao He. Role: Co-Investigator. 20% Academic credit. Summary: This project will attempt to develop J Paramyxovirus along the road towards potential clinical testing by studying it's anti-cancer effects in cell lines and animal models.
14. R01. Cell Phone Enhanced Treatment Supervision of Tuberculosis in Africa. NIH. PI: Whalen. Role: Co-Investigator. 7% Academic credit. Summary: See later resubmission.
15. R15. Altered microRNA as a biomarker for the onset of obesity-related women's cancers. NIH. PI: Murph. Role: Co-Investigator. 15% Academic credit. Summary: See later funded resubmission.
16. U01. Breast cancer diagnostics driven by glycan changes. NIH. PI: Pierce. Role: Co-Investigator. 12%. Summary: See later funded resubmission.
17. R01. Paramyxovirus as oncolytic agent. NIH. PI: Biao He. Role: Co-Investigator. 5% Academic credit. Summary: See later revision submission.

18. R01. Molecular basis of individual response to green tea polyphenols. NIH. PI: JS Wang. Role: Co-Investigator. 6% Academic credit. Summary: The goal of this project was to measure biomarkers of oxidative damage in blood and urine samples from participants in a trial of green tea polyphenol supplementation, and assess the markers' correlations with genetic risk factors and aflatoxin exposure.
19. R01. A novel oncolytic agent based on J Paramyxovirus. NIH. PI: Biao He. Role: Co-Investigator. 10% Academic credit. Summary: See later revision submission.
20. R21. Evaluation of training set sizes used in microarray studies. NIH. PI: Dobbin (with Ahn in Statistics). 40% academic credit. Summary: See later funded revision.
21. R01. Validation of biomarkers for assessing antioxidant effects of green tea polyphenols. NIH. PI: JS Wang. Role: Co-investigator. 5% Academic credit. Summary: See later revision submission.
22. RC1. Validating sample sizes used to develop biomarkers from microarray data. NIH. PI: Dobbin (with Ahn in Statistics). 40% Academic credit. Summary: See later funded revision.
23. BEST. Broadening experiences in scientific training (DP7/BEST). NIH. PI: Dailey. Role: Faculty. 0% Academic credit. Summary: This is an educational proposal to provide graduate students and postdoctoral fellows with training experiences.
24. CDC. Pilot study for surveillance and epidemiology of HPV typing and gene-environment interaction for cervical and oropharyngeal cancer in Georgia. CDC, UGA, and GA Division of public health collaboration. PI: JS Wang. 0% Academic credit. Summary: This is a proposal to develop an infrastructure for systematic monitoring of HPV in Georgia.
25. R03. Identifying modifiers of phenotypic severity in fukutin knockout mice. NIH. PI: Beedle. Role: Co-investigator. 0% Academic credit. Summary: This is a grant to study the molecular mechanisms underlying dystroglycanopathy.
26. R25: Summer school on bioinformatics methods. NIH. PI: Liming Cai. Role: Instructor. 0% Academic credit. Summary: This is a proposal to establish a summer school at the University of Georgia to teach quantitative methods to bench biologists.

PRE-DOCTORAL WORK EXPERIENCE

1994-1996 Temporary, Kelly Temporary Services, Boulder, CO

1991-1994 Copywriter and Promotions Assistant, Butterworth Legal Publishers, Salem,
NH

1989-1991 Marketing Assistant, G.K. Hall Division, Macmillan Publishing, Boston, MA

1987-1989 Caretaker for Donald Dobbin, Boston, MA

1988-1989 Receiving Clerk, Lauriat's Bookstore, Boston, MA

1987-1988 Clerk/Third in Charge, Barnes and Noble Bookstore, Boston, MA