

Yang Xie

CONTACT INFORMATION

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UT Southwestern Medical Center
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E-mail Yang.Xie@UTSouthwestern.edu

EDUCATION

PhD in Biostatistics, September 2006, University of Minnesota, Minneapolis
MS in Biostatistics June 2003, University of Minnesota, Minneapolis
MS in Epidemiology June 2000, Chinese Academy of Medical Sciences & Peking
Union Medical College, Beijing, China
MD in Preventive Medicine June 1997, Peking University Health Science Center
(Previously named as Beijing Medical University), Beijing, China

HONORS and AWARDS

2008 Travel Award for American Association for Cancer Research (AACR)
Cancer Biostatistics Workshop—Developing Targeted Agents. Sonoma, CA.
2008 Scholarship for Internal Biometrics Society Young Researcher Workshop.
Arlington, VA.
2008 Bayesian Conference Travel Award. Houston, TX.
2006 Jacob E. Bearman Student Achievement Award. Minneapolis, MN.
2005-2006 University of Minnesota Graduate School Doctoral Dissertation Fellowship.
1997 Outstanding Student of Beijing City, Beijing, China.
1996-1997 Guanghua Excellent Students Award (First Prize), Peking University Health
Science Center, China.
1992-1995 Scholarship for Excellent Student (First Prize), Peking University Health Science
Center, China.

POSITIONS

2011 – present Director, Bioinformatics Shared Resource, Harold C. Simmons
Comprehensive Cancer Center, University of Texas, Southwestern Medical
Center, Dallas, TX.
2010 – present Director, Quantitative Biomedical Research Center, University of Texas,
Southwestern Medical Center, Dallas, TX.
2006 - present Assistant Professor, Division of Biostatistics, Department of Clinical
Sciences and Harold C. Simmons Comprehensive Cancer Center, University of
Texas, Southwestern Medical Center, Dallas, TX.
2003 - 2006 Biostatistician, Department of Biochemistry,
University of Minnesota, Saint Paul, MN.
2001 - 2003 Biostatistician, PI: Julie Ross
Cancer Center, University of Minnesota, Minneapolis, MN.
2002 Summer Intern,
Pfizer Global Research and Development, Ann Arbor, MI.

- 2000 - 2004 Research Assistant,
Community Programs for Clinical Research on AIDS, PI: James Neaton
University of Minnesota, Minneapolis, MN.
- 1997 - 2000 Research Assistant, China AIDS Network,
Peking Union Medical College, Beijing, China.
- 1996 - 1997 Research Assistant, School of Public Health,
Peking University Health Science Center, Beijing, China.

GRANT SUPPORT

Active

1R01CA152301-01 (Xie) 07/01/2010 – 06/30/2015 2.4 cal
NIH/NCI \$310,000
Predicting Adjuvant Chemotherapy Response in Lung Cancer
Score: 18, rank: 1%
Role: PI

NASA NNJ05HD36G (PI: John Minna/ Core director: Yang Xie)
NASA \$63,990
Risks estimates and mechanisms of lung cancer pathogenesis after space radiation ---
Biostatistics/Bioinformatics/Data Sharing Core
Role: Core Director

NASA NNJ05HD36G (PI: John Minna/ Project 4 lead: Yang Xie)
Risks estimates and mechanisms of lung cancer pathogenesis after space radiation ---
Integrating Biomarkers of Lung Cancer Pathogenesis for Risk Assessment after HZE Particle
Irradiation
Role: Project PI

5P50CA070907-12 (Minna) 09/01/2008 – 04/30/2013 1.8 cal
NIH \$198,773
SPORE in Lung Cancer – Biostatistics core
Role: Biostatistician

1P30CA142543-01 (Willson) 01/01/2010 – 12/31/2014 2.4 cal
NIH \$1,000,000
Cancer Center Support Grant, Biostatistics & Bioinformatics Core
Role: Biostatistician

1R21DA027592-01 (Xiao) 09/01/2009 – 08/31/2011 1.8 cal
NIH \$146,529
Integrated Analysis for Molecular Mechanisms of Cocaine Addiction
Role: Co-investigator

Completed

5UL1RR024982-03 (Xie) 06/01/2009 – 05/31/2010 0.84 cal
NIH/NCRR \$25,600
Optimal designs for Phase I clinical trials with late-onset toxicities (CTSA pilot award)
Role: PI

NNJ08ZSA003N-01 (Story) 07/01/2009 – 06/30/2012 1.8 cal
 UTMB Galveston \$130,370
 NASA Specialized Center of Research on Radiation Carcinogenesis
 Role: Co-leader in Genomics and Bioinformatics core

1R01NS062080-01A2 (Habib) 09/29/2009 – 07/31/2011 0.6 cal
 NIH \$249,206
 Role for RIP1 in Gliomagenesis
 Role: Co-investigator

W81XWH-08-1-0313-02 (Timmerman) 05/15/2008 – 05/14/2011 .5 cal
 Dept of Defense \$208,272
 Stereotactic Body Radiation Therapy for Underserved Populations of Men with Low and Intermediate Risk Prostate Cancer
 Role: Biostatistician

1RC2CA148225-01 (Roth) 09/29/2009 – 08/31/2011 1.2 cal
 NIH \$1,409,296
 Concerted Attack on Patient Specific Oncogenic Vulnerabilities in Lung Cancer – ARRA Stimulus Grand Opps
 Role: Co-investigator

PUBLICATIONS

- Han T, Kato M, Xie S, Wu L, Mirzaei H, Pei J, Chen M, **Xie Y**, Allen J, Xiao G, McKnight S. Cell-free Formation of RNA Granules: Bound RNAs Identify Features and Components of Cellular Assemblies. *Cell* 11 May 2012 (Vol. 149, Issue 4, pp. 768-779)
- Xie, Y.** and Minna, J. D. (2012), 'A Lung Cancer Molecular Prognostic Test Ready for "Prime Time"', *Lancet*, 2012 Mar 3;379(9818):785-7
- Tao W, Edwards JT, Tu F, **Xie Y**, Sharma SK. Incidence of unanticipated difficult airway in obstetric patients in a teaching institution. *J Anesth.* 2012 Jan 31. [Epub ahead of print] PubMed PMID: 22290734.
- Allen JD, **Xie Y**, Chen M, Girard L, Xiao G. Comparing statistical methods for constructing large scale gene networks. *PLoS One.* 2012;7(1):e29348. Epub 2012 Jan 17. PubMed PMID: 22272232; PubMed Central PMCID: PMC3260142.
- Greer RM, Peyton M, Larsen JE, Girard L, **Xie Y**, Gazdar AF, Harran P, Wang L, Brekken RA, Wang X, Minna JD. SMAC mimetic (JP1201) sensitizes non-small cell lung cancers to multiple chemotherapy agents in an IAP-dependent but TNF- α -independent manner. *Cancer Res.* 2011 Dec 15;71(24):7640-8. Epub 2011 Nov 2. PubMed PMID: 22049529.
- Orvedahl A, Sumpter R Jr, Xiao G, Ng A, Zou Z, Tang Y, Narimatsu M, Gilpin C, Sun Q, Roth M, Forst CV, Wrana JL, Zhang YE, Luby-Phelps K, Xavier RJ, **Xie Y**, Levine B. Image-based genome-wide siRNA screen identifies selective autophagy factors. *Nature.* 2011 Dec 1;480(7375):113-7. PubMed PMID: 22020285; PubMed Central PMCID: PMC3229641.
- Hoshiyama H, Tang J, Batten K, Xiao G, Rouillard JM, Shay JW, **Xie Y**, Wright WE. Development of Methods for Quantitative Comparison of Pooled shRNAs by Mass Sequencing. *J Biomol Screen.* 2012 Feb;17(2):258-65. Epub 2011 Sep 28. PubMed PMID: 21956173. (**co-corresponding author**)
- Xie Y**, Xiao G, Coombes KR, Behrens C, Solis LM, Raso G, Girard L, Erickson HS, Roth J, Heymach JV, Moran C, Danenberg K, Minna JD, Wistuba II. Robust gene expression signature from formalin-fixed paraffin-embedded samples predicts prognosis of non-small-cell lung cancer patients. *Clin Cancer Res.* 2011 Sep 1;17(17):5705-14. Epub 2011 Jul 8.

PubMed PMID: 21742808; PubMed Central PMCID: PMC3166982.

9. Chen, M., **Xie, Y.** and Story, M. An Exponential-Gamma Convolution Model for Background Correction of Illumina BeadArray Data. *Communications in Statistics*, 2011, 40(17), 3055-3069. PMID: 21769162 PMCID: PMC3137271.
10. Sunaga N, Shames DS, Girard L, Peyton M, Larsen JE, Imai H, Soh J, Sato M, Yanagitani N, Kaira K, **Xie Y**, Gazdar AF, Mori M, Minna JD. Knockdown of oncogenic KRAS in non-small cell lung cancers suppresses tumor growth and sensitizes tumor cells to targeted therapy. *Mol Cancer Ther*. 2011 Feb;10(2):336-46. PubMed PMID: 21306997; PubMed Central PMCID: PMC3061393.
11. Gerber DE, Rasco DW, Le P, Yan J, Dowell JE, **Xie Y**. Predictors and impact of second-line chemotherapy for advanced non-small cell lung cancer in the United States: real-world considerations for maintenance therapy. *J Thorac Oncol*. 2011 Feb;6(2):365-71. PubMed PMID: 21173713; PubMed Central PMCID: PMC3025081.
12. Wang S, Wang Y, **Xie Y**, Xiao G. A novel approach to DNA copy number data segmentation. *J Bioinform Comput Biol*. 2011 Feb;9(1):131-48. PubMed PMID: 21328710; PubMed Central PMCID: PMC3084615.
13. Allen, J.D., Wang S, Chen M, Girard, L., Minna J.D., **Xie Y.**, and Xiao G. Probe Mapping across Multiple Microarray Platforms. *Brief Bioinform*, 2011 Dec 23. PMID: 22199380
14. Ma S., Dai Y., Huang J., and **Xie, Y.**, Identification of Breast Cancer Prognosis Markers via Integrative Analysis, *Computational Statistics and Data Analysis*, 2012 Volume 56, Issue 9, September 2012, Pages 2718–2728.
15. Gerber DE, Rasco DW, Le P, Yan J, Dowell JE, **Xie Y**. Predictors and Impact of Second-Line Chemotherapy for Advanced Non-small Cell Lung Cancer in the United States: Real-World Considerations for Maintenance Therapy. *J Thorac Oncol*. 2010 Dec 17. PubMed PMID: 21173713.
16. Jeong Y*, **Xie Y***, Xiao G, Behrens C, Girard L, Wistuba II, Minna JD, Mangelsdorf DJ. Nuclear receptor expression defines a set of prognostic biomarkers for lung cancer. *PLoS Med*. 2010 Dec 14;7(12):e1000378. PubMed PMID: 21179495; PubMed Central PMCID: PMC3001894. (* **co-first authors**)
17. **Xie Y**, Minna JD. Non-small-cell lung cancer mRNA expression signature predicting response to adjuvant chemotherapy. *J Clin Oncol*. 2010 Oct 10;28(29):4404-7. PMID: 20823415.
18. Cai D, Shames DS, Raso MG, **Xie Y**, Kim YH, Pollack JR, Girard L, Sullivan JP, Gao B, Peyton M, Nanjundan M, Byers L, Heymach J, Mills G, Gazdar AF, Wistuba I, Kodadek T, Minna JD. Steroid receptor coactivator-3 expression in lung cancer and its role in the regulation of cancer cell survival and proliferation. *Cancer Res*. 2010; 15;70(16):6477-85. Epub 2010 Jul 27. PubMed PMID: 20663904; PubMedCentral PMCID: PMC2922434.
19. Chen M, **Xie Y**, Michael Story. Background correction based on Gamma distributed noises for Illumina BeadArray data. *Communications in Statistics*. (in Press)
20. **Xie Y**, JK, Pan W, Xiao G, Khodursky A. A Bayesian Approach to Joint Modeling of Protein-DNA Binding, Gene Expression and Sequence Data. *Stat Med*. 2010 Feb 20;29(4):489-503. PMID: 20049751.
21. Allen JD, Chen M, **Xie Y** (2009) Model-Based Background Correction (MBCB): R methods and GUI for Illumina Bead-array Data. *J Canc Sci Ther* 1: 025-027. doi:10.4172/1948-5956.1000004
22. Arnold SA, Rivera LB, Miller AF, Carbon JG, Dineen SP, Castrillon DH, **Xie Y**, Sage EH, Puolakkainen P, Bradshaw AD, and Brekken RA. Lack of host SPARC enhances vascular function and accelerates metastasis in an orthotopic murine model of pancreatic carcinoma. *Disease Models and Mechanisms* (epub ahead of print). 2009, PMID: 20007485

23. Galindo CL, McIver LJ, McCormick JF, Skinner MA, **Xie Y**, Gelhausen RA, Ng K, Kumar NM, Garner HR. Global microsatellite content distinguishes humans, primates, animals, and plants. *Mol Biol Evol.* 2009 Dec;26(12):2809-19. Epub 2009 Aug 28. PMID : 19717526 .
24. Zhang W, Peyton M, **Xie Y**, Soh J, Minna JD, Gazdar AF, Frenkel EP Histone deacetylase inhibitor romidepsin enhances anti-tumor effect of erlotinib in non-small cell lung cancer (NSCLC) cell lines. *J Thorac Oncol.* 2009 Feb;4(2):161-6. PMID: 19179890
25. Yorio JT, **Xie Y**, Yan J, Gerber DE. Lung Cancer Diagnostic and Treatment Intervals in the United States: A Health Care Disparity? *Journal of Thoracic Oncology*: November 2009 - Volume 4 - Issue 11 - pp 1322-1330 doi: 10.1097/JTO.0b013e3181bbb130, PMID: 19752757
26. **Xie Y**, Wang X, Story M. Statistical Methods of Background Correction for Illumina BeadArray. *Bioinformatics*, 2009, Feb 4. [Epub ahead of print] PMID: 19193732
27. Gandhi J, Zhang J, **Xie Y**, et al Molecular changes in lung cancers and sensitivity to tyrosine kinase inhibitors. *PLoS ONE* 2009;4(2):e4576 PMID: 19238210
28. Xie CQ, Jeong Y, Fu M, Bookout AL, Garcia-Barrio MT, Sun T, Kim BH, **Xie Y**, Root S, Zhang J, Xu RH, Chen YE, Mangelsdorf DJ. Expression Profiling of Nuclear Receptors in Human and Mouse Embryonic Stem Cells. *Mol Endocrinol.* 2009 Feb 5. PMID: 19196830
29. Park S, Hatanpaa K, **Xie Y**, Mickey B, Madden C, Raisanen J, Ramnarain D, Xiao G, Saha D, Boothman D, Zhao D, Bachoo R, Pieper R, Habib A. The receptor interacting protein (RIP1) inhibits p53 induction through NF- κ B activation and confers a worse prognosis in glioblastoma, *Cancer Research*, in press.
30. Zhang W, Peyton M, **Xie Y**, Soh J, Minna JD, Gazdar AF, Frenkel EP Histone deacetylase inhibitor romidepsin enhances anti-tumor effect of erlotinib in non-small cell lung cancer (NSCLC) cell lines. *J Thorac Oncol.* 2009 Feb;4(2):161-6. PMID: 19179890
31. **Xie Y**, Ahn C. Statistical methods for integrating multiple types of genomic data. *Statistical Methods in Molecular Biology*. (Edited by Bang H, Zhou XK, Van Epps HL and Mazumdar M) in press.
32. **Xie Y**. Comments on 'On correcting the overestimation of the permutation-based false discovery rate estimator'. *Bioinformatics* 2008 24(20):2420; doi:10.1093/bioinformatics/btn456
33. Shivapurkar N, Stastny V, Okumura N, Girard L, **Xie Y**, Prinsen C, Thunnissen F, Minna J, Gazdar AF. Cytoglobin, the newest member of the globin family, functions as a tumor suppressor gene. *Cancer Research*, 68, 7448-7456, September 15, 2008. doi: 10.1158/0008-5472.
34. **Xie Y**, and Minna JD. Predicting the future for people with lung cancer. *Nature Medicine* 14, 812 - 813 (2008) doi:10.1038/nm0808-812
35. Rasco, DW, **Xie Y**, Yan, J, Sayne, JR and Gerber DE. (2008) Attitudes toward clinical research: an analysis of 922 patients in a university-based tissue repository. *J ClinOncol* 26: 2008 (May 20 suppl; abstr 6551).
36. Ding L*, **Xie Y***, Park S, Xiao G, Story M.(2008) Enhanced identification and biological validation of differential gene expression via illumina whole genome expression arrays through the use of the model based background correction methodology. *Nucleic Acids Research* (36):e58. (*co-first author.)
37. Shivapurkar N, Stastny V, **Xie Y**, Prinsen C, Thunnissen F, Minna J, Gazdar AF. (2008) Differential Methylation of a short CpG rich sequence within exon 1 of TCF21 gene: a promising cancer biomarker assay. *Cancer Epidemiology, Biomarkers and Prevention* (17):995-1000 (Appears on the cover-page of the journal).
38. Pan W, Jeong KS, **Xie Y**, Khodursky AB. (2008) A Nonparametric Empirical Bayes Approach to Joint Modeling Multiple Sources of Genomic Data. *Statistica Sinica*18:709-729.
39. Blair, C, Roesler, M, **Xie Y**, Gamis, AS, Olshand, AF, Heeremae, NA, Robison, LL, Rossa, JA. (2008) Vitamin supplement use among children with Down syndrome and risk of

Leukemia: A Children's Oncology Group (COG) Study. *Pediatric Perinatal Epidemiol* 22: 288-295.

40. Ahn C, Kang S, and **Xie, Y.** (2008) Optimal biological dose for molecular-targeted therapies. *Encyclopedia of Clinical Trials*, Wiley Publication, in press.
41. Minna JD, Girard L, **Xie, Y.** (2007) Tumor RNA Expression Profiles Predicting Responses to Chemotherapy. *Journal of Clinical Oncology*(28):4329 - 4336.
42. **Xie Y,** Pan W, Jeong KS, Khodursky AB. (2007) Incorporating prior information via shrinkage: a combined analysis of genome-wide location data and gene expression data. *Statistics in Medicine* (26): 2258-2275.
43. **Xie Y,** Ding L, Xiao G, et al: Model based background correction for Illumina beadarray data. *Proceedings of the Biometrics Section, American Statistical Association, 2007: 338-342.*
44. Li N, Wu B, Wei P, Xie B, **Xie Y,** Xiao G and Pan W. Functional group based linkage analysis of gene expression trait loci. *BMC Proceedings* (1):S117.
45. Jeong KS, **Xie Y,** Hiasa H and Khodursky AB. (2006) Analysis of Pleiotropic Transcriptional Profiles: a Case Study of DNA Gyrase Inhibition. *PLoS Genetics*, Sep 29;2(9):e152.
46. **Xie Y,** Carlin BP. (2006) Measures of Bayesian learning and identifiability in hierarchical models. *Journal of Statistical Planning and Inference* (136): 3458-3477.
47. **Xie Y,** Pan W, and Khodursky AB. (2005) A note on using permutation based false discovery rate estimate to compare different analysis methods for microarray data. *Bioinformatics* (23):4280-4288. 2005.
48. MartinezVaz BM, **Xie Y,** Pan W, Khodursky AB. (2005) Genome-wide localization of mobile elements: experimental, statistical and biological considerations. *BMC Genomics* (6):81. (Equally contributed first author)
49. Spector LG, **Xie Y,** Robison LL, Heerema N, Hilden JH, Lange B, Felix C, Davies SM, Slavin J, Potter JD, Reaman GH, Blair CK, Ross JA . (2005) Maternal Diet and Infant Leukemia: The DNA Topoisomerase II Inhibitor Hypothesis. *Cancer Epidemiology, Biomarkers and Prevention* (14): 651-655.
50. **Xie Y,** Jeong KS, PanW, Khodursky AB and Carlin BP. (2004) A case study on choosing normalization methods and test statistics for microarray data. *Comparative and Functional Genomics* (5), 432-444.
51. **Xie Y,** Davies SM, Xiang Y, Robison LL, Ross JA. (2003) Trends in leukemia incidence and survival in the United States (1973-1998). *Cancer* (9), 2229-2235.
52. Ross JA, **Xie Y,** Kiffmeyer WR, Bushhouse S, Robison LL. (2003) Cancer in the Minnesota Hmong population. *Cancer* (12), 3076-3079.
53. Ross JA, **Xie Y,** Davies SM, Shu XO, Pendergrass T, Robison LL. (2003) Prescription medication use during pregnancy and risk of infant leukemia (United States). *Cancer Causes and Control* (14), 447-451.
54. **Xie Y,** Liao S. (2000) Quality assessment of infrastructure of STD service in Hainan province. *Chinese Journal of Prevention and Control of STD and AIDS.*
55. **Xie Y.** (1999) Experiences of investigation and health education among the overseas workers. *Chinese Popular Medicine.* (10):4-5.
56. Zuo Q, Zhang K, **Xie Y.** (1998) HIV/AIDS epidemic characteristics and risk factors in China. *Journal of Jinan University* (6):22-23.

INVITED PRESENTATIONS

1. Xie Y, et al. Robust Gene Signature from Formalin Fixed Paraffin Embedded (FFPE) Samples Refines Prognosis of Lung Cancer, Department of biomedical engineer, UT Dallas.
2. Xie Y, et al. Robust Gene Signature from Formalin Fixed Paraffin Embedded (FFPE) Samples Refines Prognosis of Lung Cancer, Department of Clinical Sciences, distinguished speaker seminar, UTSW

3. Xie Y, et al. Robust Gene Expression Signature from Formalin-Fixed Paraffin-Embedded Samples Predict Prognosis of Non-Small-Cell Lung Cancer Patients. American Statistical Association Chapter Meeting, Dallas, TX, April, 2010.
4. Xie Y, et al. Background correction for Illumina beadarray. Department of Statistics, SMUT-MAG microarray analysis interest group, Southern Methodist University, Dallas, TX, January, 2008.
5. Xie Y, Pan W. Statistical testing for Microarray data. Department of Statistics, Southern Methodist University, Dallas, TX, November, 2007.
6. Xie Y, Girard L, et al. Gene Expression Signatures of Drug Sensitivity in Lung Cancer. Department of Computer Sciences, Southern Methodist University, Dallas, TX, September, 2007.
7. Xie Y, Girard L, et al. Gene Expression Signatures of Drug Sensitivity in Lung Cancer. Hammon Center for therapeutic oncology, University of Texas Southwestern Medical Center at Dallas, TX, August, 2007.
8. Xie Y, Pan W, Jeong KS, Xiao G, Khodursky AB. A Bayesian approach to Jointly Modeling DNA Protein Binding Data, Gene Expression Data and DNA Sequence Data. , SMUT-MAG (microarray analysis interest group). University of Texas Southwestern Medical Center at Dallas, March, 2007.
9. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, University of Kansas Medical Center, Kansas City, MO, January, 2006.
10. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, St. Jude Children Research Hospital, Memphis, TN, January, 2006.
11. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, January, 2006.
12. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Department of Health Studies, University of Chicago, Chicago, IL, February, 2006.
13. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. School of Medicine, Johns Hopkins University, Baltimore, MD, February, 2006.
14. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, University of Minnesota, Minneapolis, MN, February, 2006.
15. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Department of Biostatistics, University of North Carolina, Chapel Hill, NC, February, 2006.
16. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, Washington University, St. Louis, MO, March, 2006.
17. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Winship Cancer Institute, Emory University, Atlanta, GA, March, 2006.
18. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, Indiana University School of Medicine, Indianapolis, IN, March, 2006.

19. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, University of South Florida, Moffitt Cancer Center and Research Institute, Tampa, FL, April, 2006.
20. Xie Y, Pan W, MartinezVaz BM, Khodursky AB. A Bayesian approach to jointly modeling DNA protein binding data, gene expression data and DNA sequence data. Division of Biostatistics, The University of Texas Southwestern Medical Center, Dallas, TX, April, 2006.

CONFERENCE PRESENTATIONS & POSTERS

1. Xie Y, Xiao G, Ahn C, Girard L, Minna J. Adaptive prediction in genomic signatures based clinical trials. International Biometrics Society (ENAR), New Orleans, LA, April, 2010
2. Xie Y, Xiao G, Ahn C, Girard L, Minna J. Adaptive prediction in genomic signatures based clinical trials. Joint Statistical Meeting, Washington DC, August, 2009
3. Rasco, DW, Xie Y, Yan, J, Sayne, JR and Gerber DE. (2008) Attitudes toward clinical research: an analysis of 922 patients in a university-based tissue repository. 44th ASCO Annual Meeting May 30-June 3, 2008 McCormick Place Chicago, Illinois.
4. Xie Y, Ding L, Xiao G, Allen J and Story M. (2008) Statistical methods to preprocess Illumina microarray data. International Biometrics Society (ENAR), Arlington, VA, March, 2008
5. Xie Y, Carlin B. Bayesian learning and identifiability in Hierarchical Models. 2008 Bayesian Biostatistics Conference, MD Anderson Cancer Center, Houston, January, 2008
6. Xie Y, Ding L and Story M. (2007) Model based background correction for Illumina microarray data. 2007 Joint Statistics Meeting, Salt Lake City, Utah. July 29-August 2, 2007
7. Xie Y, Girard L, et al (2007) Gene Expression Signatures of Drug Sensitivity in Lung Cancer. 15th Annual National Cancer Institute Specialized Programs Of Research Excellence (SPORE) Investigators' Workshop, Baltimore, MD. July 7-11, 2007.
8. Lee W, Peyton M, Sato M, Girard L, Shames D, Xie Y, Smith AL, Mason R, Shay JW, Gazdar AF, and Minna JD. (2007) Bioluminescence Imaging (BLI) Based Human Lung Cancer Orthotopic Xenograft Model. Annual National Cancer Institute Specialized Programs Of Research Excellence (SPORE) Investigators' Workshop, Baltimore, MD. July 7-11, 2007.
9. Sato M, Lee W, Girard L, Xie Y, et al, The combination of five changes telomerase, p16/Rb bypass, p53 knockdown, mutant KRASV12, c-Myc and serum-induced epithelial-mesenchymal transition progresses normal human bronchial epithelial cells to full malignancy. Annual National Cancer Institute Specialized Programs Of Research Excellence (SPORE) Investigators' Workshop, Baltimore, MD. July 7-11, 2007.
10. Alcantara, SR, Chang HK, McClellan L, Xie Y, Burns D, Bachoo R, Parada L. (2007) Isolation and characterization of cancer stem cells in a glioma mouse model. Harold C. Simmons Comprehensive Cancer Center. April, 2007.
11. Alcantara, SR, Chang HK, McClellan L, Xie Y, Burns D, Bachoo R, Parada L. (2007) Isolation and characterization of cancer stem cells in a glioma mouse model. Keystone Symposia on Stem Cells and Cancer. Keystone, CO, March 2-7, 2007.
12. Osborne CR, Allada N, Xie Y, Xie X, Kannan L, Ashfaq R, Bian A, Tripathy D. (2006) Neoadjuvant chemotherapy for a basal-like breast cancer cohort: clinical and pathological outcomes. The San Antonio Breast Cancer Symposium. December 14-17, 2006. San Antonio, TX.
13. Xie Y, PanW, Jeong KS, Khodursky AB. Incorporating prior information via shrinkage: a combined analysis of genome-wide location data and gene expression data. (Presented at International Biometrics Society (ENAR), Austin, TX, March 2005)

14. Xie Y, Jeong KS, PanW, Khodursky AB and Carlin BP. A case study on choosing normalization methods and test statistics for microarray data.(Presented at International Biometrics Society (ENAR), Pittsburg, PA, March 2004)
15. Xie Y, Jeong KS, PanW, Khodursky AB and Carlin BP. A case study on choosing normalization methods and test statistics for microarray data.(Poster section at the University of Minnesota Fourth Symposium of Bioinformatics. Minneapolis, MN, April 2004.)
16. Xie Y, PanW, Jeong KS, Khodursky AB. Incorporating prior information via shrinkage: a combined analysis of genome-wide location data and gene expression data. (Presented at RCN: Development, Evaluation, and Dissemination of Methods for the Analysis of Gene Expression, New Paltz NY, September, 2004)
17. Chen L, Xie Y and Neaton J. (2004) Treatments for HIV infection and implications of non-HIV related deaths on trial design. (Society of Clinical Trials meeting, New Orleans, LA)
18. Stewart W, Xie Y. (1997) A study of clinic provision for sexually transmitted diseases in Beijing and Shanghai, People's Republic of China. (the 4th International Congress on AIDS in Asia and the Pacific, Manila).

Study sections

Scientific reviewer for: Susan G. Komen for the Cure's 2011 Research Programs scientific peer review 2011.

JOURNAL REVIEWS

- Nature Methods
- Nuclear Acid Research
- Pharmacogenomics
- PLoS One
- Bioinformatics
- Genome Biology
- Journal of Bioinformatics and Computational Biology
- Cancer Control Journal
- BMC Bioinformatics
- BMC Genomics
- Journal of Clinical Oncology
- Cancer Research (statistical reviewer)
- American Journal of Pathology (statistical reviewer)
- Molecular Carcinogenesis
- Canadian Journal of Statistics
- Statistics and its Inferences
- Cancer Epidemiology, Biomarkers & Prevention

PROFESSIONAL MEMBERSHIPS

- American Statistical Association
- International Biometric Society
- Society of Clinical Trials
- Harold C. Simmons Comprehensive Cancer Center Member

INSTRUCTIONAL ACTIVITIES

- Mentor of Post-doc fellows (Hao Tang, Beibei Chen, Jichen Yang) at UTSW
- Mentor of graduate student (Rui Zhong and Tao Wang) on their PhD thesis at UTSW

- Mentor of rotation graduate students (Xiaosong Pan, Tao Wang) at UTSW
- Instructor of "Biostatistics for clinical sciences II" at UTSW, 2008, 2009, 2010, 2011, 2012
- Co-designed a new course "High-dimensional data analysis" for graduate school, the course will start from 2013.
- UTSW STAR program lecturer 2008
- Organize Quantitative Biomedical Research Center (QBRC) seminar and journal clubs.
- Breast cancer database and prognosis signatures. Quantitative Biomedical Research Center journal club.
- Thesis committee member for Siling Wang, Ph.D. student at Department of Computer Sciences, Southern Methodist University
- Instructor of "Bioinformatics and DNA Microarray Data Analysis" at UTSW.
- Serve as mentor for Jeff Allen, student at Department of Computer Sciences, Southern Methodist University
- Supervise a Biostatistical Consultant at the Cancer Center Biostatistics Core, University of Texas Southwestern Medical Center, 2006 - present.
- Teaching Assistant in Biostatistics, Advanced Computing, Clinical Trials at Division of Biostatistics, University of Minnesota, 2000 and 2003.
- Co-advised a summer undergraduate intern at the Summer Bioinformatics Program, University of Minnesota 2004
- Co-advised four high school students to design and implement an epidemiology research project, which won first prize in the Chinese National Science and Technology Competition of High Schools Students. 1998-2000.
- Co-instructed in two training workshops for primary healthcare doctors and workers in women's health centers in two remote provinces of China. 1999.

ACADEMIC SERVICES

- Member of Cancer Center Protocol Review & Monitoring Committee
- Member of Cancer Center Data Monitoring & Safety Committee
- Member of Cancer Center LGWC committee
- Member of Scientific Computing Committee Member at UTSW
- Develop clinical protocols for cancer clinical trials
- Committee member of qualify exam for graduate students at Quantitative Biophysics program
- Committee member of qualify exam for graduate students at Cancer Biology program
- Member of faculty representatives committee in the division of Biostatistics at the Department of Clinical Sciences
- Chair a clinical trial design session at the International Biometrics Society (ENAR), New Orleans, LA, April, 2010.
- Organize an invited session for Joint Statistical Meeting, 2010.