# **DEBAJYOTI SINHA**

# RON & CAROLYN HOBBS ENDOWED PROFESSOR OF STATISTICS STATISTICS DEPARTMENT Florida State University

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## **Education:**

YEARS	<b>TRAINING</b>	<u>INSTITUTION</u>
1986	B.S. (Statistics)	Indian Statistical Institute, India
1988	M.S. (Statistics)	Indian Statistical Institute, India
1990	M.A. (Statistics)	University of Rochester (NY)
1993	Ph.D. (Statistics)	University of Rochester (NY)

#### **ADMINISTRATIVE APPOINTMENTS:**

YEARS	Position Position	<u>Institution</u>
	Teaching Assistant, Statistics Research Assistant, Biostatistics	University of Rochester, NY University of Rochester, NY
1993-1998 1998-2001	Assistant Professor, Statistics Associate Professor, Statistics	University of New Hampshire University of New Hampshire
1999-2004 2002-07 In	Associate Professor of Biostatistics terim Director, Biostatistics Core	Medical University of South Carolina (MUSC) Hollings Cancer Center, MUSC
2004-7/200	7 Professor of Biostatistics	Dept. of Biostatistics, Bioinformatics & Epidemiology. (DBBE), MUSC
5/06-7/2007	Director, Division of Biostatistic	cs DBBE, MUSC.

8/2007-Present Hobbs Endowed Professor of Statistics Dept. of Statistics,

Florida State Univ. (FSU)

#### MEMBERSHIP IN PROFESSIONAL/SCIENTIFIC SOCIETIES (Including Offices Held):

- Regional Advisory Board, International Biometric Society, ENAR (1998-2001)
- Vice-president: SC Chapter, American Statistical Association (2001-2003)
- Elected Representative of Council of Sections, American Statistical Association: Section on BAYESIAN STATISTICAL SCIENCE

#### NATIONAL SOCIETIES:

Member: American Statistical Association

Member: International Biometric Society, ENAR Member: Institute of Mathematical Statistics Member: Society for Bayesian Statistical Science

#### INTERNATIONAL SOCIETIES:

Member: International Statistical Institute

Member: International Society for Bayesian Analysis

Member: Royal Statistical Society, UK

#### **EDITORIAL POSITIONS:**

- Editor (jointly with D.K.Dey and P.Muller): "Practical Nonparametric and Semiparametric Bayesian Analysis", Lecture Notes in Statistics, Vol. 133, Springer-Verlag: New York.
- Editorial board member (2006-08): Statistics & Probability Letters
- Associate Editor: Journal of the American Statistical Association (2005-present)
- Editorial board member (since 1999): Lifetime Data Analysis, Springer-Verlag.
- Associate Editor: Biometrics (2008-present)

## EXTRAMURAL GRANTS/AWARD AMOUNT (Current and Past):

1. **Principal Investigator** (45%) (1994-2001), "Semiparametric Bayesian methods for survival data". Proposal for a FIRST Award grant (R29), (Grant R-29 CA 69222 from the **National Cancer Institute**).

- 2. **Principal Investigator** (20%) (2000-02), "Statistical modeling of cancer-prevention clinical trials", Cancer Research Development Grant, Sponsor: **Department of Defense**.
- 3. Co-investigator (12%) (2000-02), "Risk of Acute Lymphoblastic Leukemia among children who participated in a controlled clinical trial of a haemophilus influenza type-b conjugate vaccine in Finland", Cancer Research Development Grant, Sponsor: **Department of Defense**.
- 4. Co-investigator (5%) (2000-02), "Incidence of Leukemias in United States military occupations", Cancer Research Development Grant, Sponsor: **Department of Defense.**
- 5. Co-investigator (7.5%) (2000-02), "Transgenerational family-focused smoking cessation group therapy for cancer patients and their families", Cancer Research Development Grant, Sponsor: **Department of Defense**.
- 6. **Co-investigator** (15%) (2002-04), "Methods for analyzing repeated categorical data", Sponsor: **National Institute of Health**, Grant R01 HL69800.
- 7. **Co- investigator (30%)** (2002-05: Active), "Oncology Center: Biostatistics Support", Sponsor: **Department of Energy**.
- 8. **Principal Investigator** (**45**%) (2002-2006), "Semiparametric Bayesian methods for survival data", Grant R01 CA69222, Sponsor: **National Cancer Institute**.
- 9. **Co- investigator** (25%) (2004-07: Active), "Statistical methods in Cardio-toxicity Studies of AIDS Patients", Sponsor: **National Institute of Health**, Grant R01 AI060373-01A1.
- 10. **Co-investigator** (5%) (2004-2007), "Role of ETS Genes in Transformation and Differentiation", Sponsor: **National Cancer Institute**, Grant P01 CA78582.
- **11.** Co-investigator (7%) (2005-2007), "C18-Ceramide in Head and Neck Cancer Growth and Therapy", Sponsor: National Cancer Institute, Grant R01DE016572.
- 12. **Co-investigator (2006-7/2007),** Source:NIH/NCI PI: C.Carter; "The Impact on Dragon Boat Racing on Cancer Survivorship"

- **13.** Consultant (2005-2008: Active), "Preventing sexual violence: Does sex offender registration and notification work?", Sponsor: Center for Disease Control, Grant RA49-000-567.
- **14. Consultant** (**2005-2008: Active**), "Offender registration: Examination of intended and unintended effects on juvenile offenders", Sponsors: **National Science Foundation and National Institute of Justice,** GrantSES-0455124.
- **15. Principal Investigator** (**35**%) (**2007-2013**: **Active**), "Semiparametric Bayesian methods for survival data", Grant R01 CA69222, Sponsor: **National Cancer Institute**.
- **16. Co-Investigator** (35%) **2012-2015: ACTIVE:** Analyzing National Complex Sample Surveys for Epidemiologic Studies of Cancer; Grant R01CA60679-01A1, Sponsor: **National Cancer Institute**

#### INTRAMURAL GRANTS/AMOUNT OF AWARD:

Summer Faculty Development Grant (\$3,500) (1995): University of New Hampshire

## AWARDS, HONORS, MEMBERSHIP IN HONORARY SOCIETIES:

- Elected fellow: American Statistical Association (2006)
- Honorable mention: 1995 L. J. Savage Memorial Award, for PhD thesis on Bayesian Statistics or Bayesian Econometrics
- FIRST Award: National Cancer Institute, Grant: R-29 CA69222 (9/1995-9/2001)
- Elected fellow: Royal Statistical Society, UK (1999)
- International Biometric Society, ENAR, Student Travel Award (1992)

## **ACADEMIC COMMITTEE ACTIVITIES** (past 5 years):

- Member: Seminar Committee, Dept. of Biostatistics & Epidemiology, MUSC (2000-2007)
- Member: Library Committee, Dept. of Biostatistics & Epidemiology, MUSC (2000-2007)
- Chair: <u>Library Committee</u>, Dept. of Biostatistics & Epidemiology, MUSC (2001-2007)

- Member: Biostatistics Faculty Recruitment Committee, Dept. of Biostatistics & Epidemiology (DBBE), MUSC (2000-2006)
- Chair: Biostatistics Faculty Recruitment Committee, DBBE, MUSC (2002-2007)
- Member: MUSC Hollings Cancer Center Clinical Review Committee (1999-2007)
- Member: PhD Thesis Committee of Wonsuk Yoo, DBBE, MUSC (2001-04)
- Member: PhD Thesis Committee of Aaron Adelman, DBBE, MUSC (2002-2006)
- **Principal Advisor**: MS Thesis Committee of Scott Miller, BBE, MUSC (2004-2005)
- **Principal Advisor**: PhD Thesis Committee of Bichun Ouyang, DBBE, MUSC (2005-2009)
- **Principal Advisor**: PhD Thesis Committee of Heather Y. Lin, DBBE, MUSC (2003-5/2006)
- **Member:** Radiation Oncology Chair Search Committee, MUSC Hollings Cancer Center, (2004-05).
- **Member** (2004-2007): <u>Steering Committee</u>, MUSC BYBBR Biostatistics Training Program (sponsored by NIH).
- Member (2000-2007): Protocol Review Committee, Hollings Cancer Center, MUSC
- **Member** (2008-Present): <u>Council on Research and Creativity</u>, Florida State University
- **Member** (2008-Present): <u>FESIC Committee</u>, Dept. of Statistics, Florida State University
- **Member** (2008-Present): <u>Executive Committee</u>, Dept. of Statistics, Florida State University
- **Member** (2008-Present): <u>Promotion Committee</u>, Dept. of Statistics, Florida State University

#### MAJOR TEACHING RESPONSIBILITIES:

#### **Thesis Direction**

- **Principal Advisor**: PhD thesis of M. Capozzoli (graduated in 1999), Department of Mathematics and Statistics, University of New Hampshire
- Principal Advisor: PhD Minor Thesis of L.McSweeney, Department of Mathematics and Statistics, University of New Hampshire
- Principal Advisor: PhD Minor Thesis of H.Pendharkar, Department of Mathematics and Statistics, University of New Hampshire
- Advisor: Undergraduate Honors Thesis in Statistics of H.J.Smith (class of 1995),
   Department of Mathematics and Statistics, University of New Hampshire
- Advisor: Undergraduate Honors Thesis in Statistics of J.Shannon (class of 1995), Department of Mathematics and Statistics, University of New Hampshire
- Member: PhD Thesis Committee of L.McSweeney, Department of Mathematics and Statistics, University of New Hampshire
- Member: PhD Thesis Committee of WonsukYoo, DBBE, MUSC (graduated in 2004)
- Member: PhD Thesis Committee of Penny Travis, Dept. of Biostatistics & Epidemiology (DBBE), MUSC (graduated in 2006)
- Member: PhD Thesis Committee of A. Adelman, Dept. of DBBE, MUSC
- **Principal Advisor**: PhD Thesis Committee of Heather Yan Lin, DBBE, MUSC (graduated in May 2006)
- Principal Advisor: MS Thesis Committee of Scott Miller, DBBE, MUSC
- **Principal Advisor**: PhD Thesis Committee of Bichun Ouyang, DBBE, MUSC (graduated in May 2009)
- **Principal Advisor**: PhD Thesis Committee of Lanjia Lin, Dept. of Statistics, FSU (graduated in May 2009)
- **Principal Advisor**: PhD Thesis Committee of Yu Guo, Dept. of Statistics, FSU (graduated in 2011)
- **Principal Advisor**: PhD Thesis Committee of X. (Nicole) Lin, Dept. of Statistics, FSU (graduated in 2011)
- **Principal Advisor**: PhD Thesis Committee of Wenting Wang, Dept. of Statistics, FSU (graduated in 2010)
- **Principal Advisor,** PhD Thesis Committee of JiangChang Lin, Dept. of Statistics, FSU

#### **Teaching Experience**

- Statistics and probability courses for undergraduate students at the University of NH (1993-1999): courses on mathematical statistics, probability, stochastic process, statistical inference, survival analysis and reliability, regression analysis, applied statistics for engineers and social sciences.
- Statistics and probability courses for advanced undergraduates and graduate students at the University of NH (1993-1999): courses on advanced survival analysis and reliability, Bayesian statistical methods, biostatistics, data augmentation and related

MCMC algorithms for statistical inference, advanced topics in statistical methods and research.

- Introduction to Statistical Data Analysis: at the Thursdays at Five, a short course series in clinical investigation and grant writing at MUSC (2000-03).
- Bayesian Biostatistics: Department of Biostatistics and Epidemiology, MUSC (Spring 2001, Spring 2003, 2007).
- Advanced ANOVA and Regression: Department of Biostatistics and Epidemiology, MUSC (Fall 2001, Fall 2002).
- Stochastic Process: Dept. of Biostatistics and Epidemiology, MUSC (Spring 2004).
- Survival Analysis: Dept. of Biostatistics and Epidemiology, MUSC (since Spring 2005).
- Bayesian Statistics: Department of Statistics, FSU (Fall 2008, 2009).
- Survival Analysis: Department of Statistics, FSU (since 2008).
- Advanced Inference and Probability: Department of Statistics, FSU (since Spring 2009).
- Advanced Epidemiological Methods: Department of Statistics, FSU (Fall 2009).

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## **MAJOR RESEARCH INTERESTS:**

(1) Survival analysis; (2) Bayesian Biostatistics; (3) Modeling Cancer relapse and prevention data; (4) Cure rate survival data; (5) Longitudinal data; (6) Semiparametric empirical Bayes

## **Invited Lectures** (past 5 Years):

- 1. Invited Presentation: Department of Statistics, University of Florida, (2003)
- 2. Invited Presentation: International Bayesian Workshop, Sponsored by Indian Statistical Institute, India, and Institute of Mathematical Statistics, USA (2003)
- 3. Invited Presentation: 2003 Joint Statistical Conference in San Francisco, CA (2003).
- 4. Invited Presentation: 2004 Joint Statistical Conference in Toronto, Canada
- 5. Invited Presentation: Department of Statistics, University of Georgia (2004)
- 6. Invited Presentation: 2005 International Conference on Future of Statistical Theory and Practice, at Hyderabad, India; Sponsor: American Statistical Association and Institute of Mathematical Statistics.

#### **DEBAJYOTI SINHA**

#### PAGE 8

- 7. Invited Presentation: 2004 International Conference on Statistics in Health Sciences, Nantes, France
- 8. Invited Presentation: 2005 International Workshop/Conference on Bayesian Statistics and its Applications; Sponsors: International Society for Bayesian Analysis, and Benaras Hindu University.
- 9. Invited Presentation: Department of Statistics, University of Florida (2005)
- 10. Invited Presentation: Department of Biostatistics, University of Michigan (2006)
- 11. Invited Presentation: 2006 WNAR Meeting, International Biometric Society
- 12. Invited Presentation: 2006 ENAR Meeting, International Biometric Society
- 13. Invited Presentation: 2007 WNAR Meeting, International Biometric Society
- 14. Invited Presentation: 2007 Conference on Modern Nonparametric Methods and Application, Columbia, SC
- 15. Invited Presentation: 2008 IISCA Conference, Storrs, CT
- 16. Invited Presentation (2008): Department of Biostatistics, Kansas Medical Center
- 17. Invited Presentation: 2009 ENAR Spring Meeting, International Biometric Society
- 18. Invited Presentation: 2010 Joint Statistical Meeting
- 19. Invited Presentation: 2011 ENAR Spring Meeting, International Biometric Society
- 20. Invited Discussant: 2011 Joint Statistical Meeting

#### **Extramural Professional Activities:**

## **Reviewer of grants:**

- 1. Reviewer: National Science Foundation Grant (2000)
- 2. Member: Special Emphasis Panel ZNS1 SRB-A (04), National Institute of Health (2002-04)

- 3. Member: Special Emphasis Panel ZNS1 SRB-A (02), National Institute of Health (2003-04)
- 4. Reviewer (2002): Chilean Research Council (FONDECYT)
- 5. Reviewer (2003): American Mathematical Society Grant (2003)
- 6. Reviewer (2003): Council of Physical Sciences of the Netherlands Organization for Scientific Research (NWO)
- 7. Member: Special Emphasis Panel 1 P01 ES012899-01A1, National Institute of Environmental Health Sciences (2002-2004)
- 8. Member: Special Emphasis Panel/Initial Review Group 2005/01 ZES1 LWJ-B, National Institute of Environmental Health Sciences (2004)
- 9. **Permanent Member/Reviewer**: Biostatistical Methods and Research Design (BMRD) Study Section, National Institute of Health (2006, 2007, 2009-Present).
- 10. Permanent Member/Reviewer: 2006/05 NSD-K Panel (National Int. of Neurological Disorders and Stroke), March 2006-2010.
- 11. Reviewer (2009): Healthcare Delivery and Methodologies Competing Revisions Special Emphasis Panel (NIH)

## Refereeing for journals:

- 1. Referred for articles for several professional journals including the Journal of the American Statistical Association, Applied Statistics, Australian Journal of Statistics, Biometrika, Biometrics, Canadian Journal of Statistics, Communications in Statistics, Journal of the Royal Statistical Society (Series A & B), Journal of Statistical Planning and Inference, Journal of Clinical Microbiology, Lifetime Data Analysis, Statistics and Medicine, and Sankhya.
- 2. Statistical Reviewer: International Journal of Radiation Oncology, American Journal of Epidemiology.

## Other Activities/organizational works:

1. Organized a special contributed papers session entitled "Survival analysis: A Bayesian perspective)" co-sponsored by the Bayesian Statistics Section of the American Statistical Association, and the Biometric Society), at the Joint Statistical Meeting of August, 1995 in Orlando, Florida.

- 2. Organized a special contributed papers session, titled "Bayesian methods in survival analysis" (sponsored by the Biometric Society) at the Spring Statistical Conference of the Biometric Society, ENAR, in March 1996, Richmond, VA.
- 3. Organized a special invited papers session, titled "Modern model selection and adequacy methods in survival analysis" (jointly sponsored by ENAR, ASA and IMS), at the Spring Statistical Conference of the Biometric Society, ENAR in March 1998, at Pittsburgh, PA.
- 4. Organized a special invited papers session at the meeting of the International Society for Bayesian Analysis in Crete, Greece (June 2000).
- 5. Organized a special invited papers session at the 2000 Joint Statistical Meeting of the American Statistical Association in Indianapolis, IA.
- 6. Member: Organizing Committee, 2003 Bayesian Workshop in Calcutta, Sponsor: Institute of Mathematical Statistics, USA, and Indian Statistical Institute
- 7. Member: Organizing Committee, 2005 International Workshop on Bayesian Statistics and Its Applications, in Varanasi, India; Sponsor: International Society for Bayesian Analysis and Benaras Hindu University
- 8. Organized a special invited papers session at the 2005 International Conference on Future of Statistical Theory and Practice, at Hyderabad, India; Sponsor: American Statistical Association and Institute of Mathematical Statistics.
  - 9. **Program Committee Member** (2007-2009): International Indian Statistical Association
  - 10. **Representative of Council of Sections** (2009-now): American Statistical Association: Section on BAYESIAN STATISTICAL SCIENCE (SBSS)

## **BIBLIOGRAPHY (Published or in press)**

#### **Books:**

- Dey, D.K., Mueller, P., and Sinha, D. (editors) (1999), *Practical Nonparametric and Semiparametric Bayesian Analysis*, Lecture Notes in Statistics, Vol. 133, Springer-Verlag: New York.
- Ibrahim, J. G., Chen, M-H, and Sinha, D. (2001), *Bayesian Survival Analysis*, Springer-Verlag: New York.

## PEER REVIEWED JOURNAL ARTICLES (PUBLISHED/IN PRESS):

- 1. Cui, L., Tanner, M. A., Sinha, D. and Hall, W. J. (1992), "Monitoring convergence of the Gibbs sampler: further experience with Gibbs stopper". *Statistical Science*, 7: 483-486.
- 2. Sinha, D. (1993), "Semiparametric Bayesian analysis of multiple event time data". *Journal of the American Statistical Association*, **88**: 979-983.
- 3. Sinha, D., Tanner, M.A. and Hall, W. J. (1994), "Maximizing the marginal likelihood from grouped survival data". *Biometrika*, **85**: 53-60.
- 4. Tagliaferro, A. R., Ronan, A.M., Meeker, L.D., Thompson, H. J. and Sinha, D. (1996), "Cyclic food restriction alters substrate utilization and abolishes protection from mammary carcinogenesis in female rats". *Human and Clinical Nutrition*, pp. 1398-1405.
- 5. Sinha, D. and Dey, D. K. (1997), "Semiparametric Bayesian analysis of survival data". *Journal of the American Statistical Association*, **92**: 1195-1212.
- 6. Sinha, D., Dey, D. K. and Chu, H-M (1997), "Bayesian analysis of toxicological multivariate mortality data". <u>Modelling Longitudinal and Spatially Correlated Data Methods, Applications and Future Research Directions</u>, D. R. Brillinger, P. J. Diggle, E. Russek-Cohen, W. G. Warren, R. D. Wolfinger (editors), Lecture Notes in Statistics, Vol. 122, Springer-Verlag (refereed proceedings), pp. 123-133.
- 7. Sahu, S. K., Dey, D. K., Aslanidou, H., and Sinha, D. (1997), "A Weibull regresssion model with gamma frailties for multivariate survival data", *Lifetime Data Analysis*, 3: 123-138.
- 8. Sinha, D. (1997), "Time-discrete beta-process model for interval-censored survival data," *Canadian Journal of Statistics*, **25**: 445-456.
- 9. Aslanidou, H., Dey, D. K. and Sinha, D. (1998), "Bayesian analysis of multivariate survival data using Monte Carlo methods", <u>Canadian Journal of Statistics</u>, **26**: 33-48.
- 10. Sinha, D. (1998), "Posterior likelihood method for multivariate survival data", *Biometrics*, **54**: 1463-1474.
- 11. Sinha, D. and Dey, D. K. (1998), "Survival analysis using semiparametric Bayesian methods" in <u>Practical Nonparametric and Semiparametric Bayesian Analysis</u> (refereed edited volume), Springer-Verlag: New York.
- 12. Ibrahim, J. G. and Sinha, D. (1998), "Prior elicitation for semiparametric Bayesian survival analysis" in <u>Practical Nonparametric and Semiparametric Bayesian Analysis</u> (refereed edited volume), Springer-Verlag: New York.

- 13. Banerjee, M., Capozzoli, M., McSweeney, L. and Sinha, D. (1999), "Beyond kappa: A review of interrater agreement measures", *Canadian Journal of Statistics*, **27**: 3-24.
- 14. Karson, M. J., Gaudard, M., Linder, E., and Sinha, D. (1999), "Bayesian analysis and computations for spatial prediction (with discussion)". *Environmental and Ecological Statistics*, **6**: 147-182.
- 15. Dey, D. K. and Sinha, D. (1999), "Bayesian model determination in lifetime data analysis". <u>Revista Brasileira de Probabilidade e Estatistica (Brazilian Journal of Probability and Statistics)</u>, 2: 1-19.
- 16. Sinha, D., Chen, M-H, and Ghosh, S. (1999), "Bayesian analysis and predictive model diagnostics for interval-censored survival data". *Biometrics*, **55**: 585-590.
- 17. Chen, M-H, Ibrahim, J. G. and Sinha, D. (1999), "A Bayesian approach to survival data with a cure fraction". *Journal of American Statistical Association*, **94**: 909-919.
- 18. Chen, M-H, Dey, D. K. and Sinha, D. (2000), "A time-varying random effects model for multivariate mortality data with large families". *Journal of the Royal Statistical Society, Series C.* **49**: 129-144.
- 19. Sinha, D., Capozzoli, M., and Owen, J. (1999), "Modeling accelerated life test data using a Bayesian approach". <u>Proceedings of the Third Triennial Calcutta Symposium</u> (refereed proceeding) by A. K. Basu, P. K. Sen and B. K. Sinha (eds.), Oxford University Press.
- 20. Capozzoli, M., Owen, J., and Sinha, D., (2000), "Test for equality of survival distribution for paired observations", *American Statistician*, **54**: 252-256.
- 21. Ghosh, S. and Sinha, D., (2000), "Analysis of interval-censored survival data using penalized likelihood". <u>Sankhya, Ser. A.,</u> **63**: 1-14.
- 22. Ibrahim, J. G., Chen, M-H, and Sinha, D. (2001), "Criterion based methods for Bayesian model assessment", *Statistica Sinica*, **11**: 419-443.
- 23. Ibrahim, J. G., Chen, M-H, and Sinha, D. (2001), "Bayesian semiparametric models for survival data with a cure fraction", *Biometrics*, **57**: 383-387.
- 24. Groves, F. D., Sinha, D., Kayhty, H., Goedert, J. J., and Levine, P. H. (2001), "Haemophilus influenzae type-b serology in childhood leukemia: A case-control study", *British Journal of Cancer*, **85**: 337-340.
- 25. Chen, M-H, Ibrahim, J. G., and Sinha, D. (2002), "Bayesian inference for multivariate survival data with a surviving fraction", Journal of Multivariate Analysis, **80**: 101-126.

- 26. Sinha, D., Ibrahim, J. G., and Chen, M-H (2002), "Models for survival data from cancer prevention studies", <u>Journal of the Royal Statistical Society</u>, <u>Ser. B</u>, **64**: 467-477.
- 27. Groves, F. D., Sinha, D., and Auvinen, A. (2002), "*Haemophilus influenzae* type-b vaccine formulation and risk of childhood leukemia". <u>British Journal of Cancer</u>; **85**: 511-512.
- 28. Sinha, D., Chen, M-H., and Ibrahim, J.G. (2003). "Bayesian Inference for Survival Data with a Surviving Fraction". <u>Statistical Essays in Honor of Jack Hall</u>; Editors: J.E. Kolassa and D. Oakes; *Institute of Mathematical Lecture Note Series*, **43**:117-138.
- 29. Sinha, D., Patra, K. and Dey, D.K. (2003), "Modelling accelerated life test data using a Bayesian approach", <u>Journal of the Royal Statistical Society</u>, <u>Series C</u>, **52**: 249-259.
- 30. Ibrahim, J. G., Chen, M-H., and Sinha, D. (2003), "On Optimality Properties of the Power Prior", <u>Journal of the American Statistical Association</u>, **98**: 204-213.
- 31. Sinha, D., Ibrahim, J.G., and Chen, M-H. (2003). "A Bayesian justification of Cox's partial likelihood", Biometrika, **90:** 629-641.
- 32. Ibrahim, J. G., Chen, M-H., and Sinha, D. (2004), "Bayesian Methods for Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Vaccine Trials", <u>Statistica Sinica</u>, **14:** 847-867.
- 33. Frizzell, B., Sinha, D., Williams, T., Reed, C.E., Sherman, C.A., and Turrisi, A. (2003), "Influence of Celiac Axis Lymph Nodes in the Definitive Treatment of Esophageal Cancer", American Journal of Clinical Oncology, **26**(3): 215-220.
- 34. Key, J. D., Marsch, L. D., Carter, C. L., Malcolm, R. J., and Sinha, D. (2004). "Family-Focused Smoking Cessation: Enhanced Efficacy by the Addition of Partner Support and Group Therapy", <u>Substance Abuse</u>, 25: 37-42.
- 35. Sinha, D and Maiti, T. (2004), "Analyzing **Panel-count Data with Dependent Termination**: a Bayesian Approach", <u>Biometrics</u>, **60**: 34-40.
- 36. Chen, M-H., Ibrahim, J. G., and Sinha, D. (2005), "A New Model for Longitudinal and Survival Data with a Cure Fraction", <u>Journal of Multivariate Analysis</u>, **91:** 18-34.
- 37. Ibrahim, J. G., Chen, M-H., and Sinha, D. (2005), "Bayesian Approaches to Cure-rate Models", *Encyclopedia of Biostatistics* (Second Edition), Editors: P.Armitage and T.Colton, **Vol.1**, pp 306-313.

- 38. Ibrahim, J. G., Chen, M-H., and Sinha, D. (2005), "Bayesian Survival Analysis", <u>Encyclopedia of Biostatistics (Second Edition)</u>, Editors: P.Armitage and T.Colton, **Vol.1**, pp 352-366.
- 39. Natarajan, S., Liao, Y., Sinha, D., Cao, G., McGee, D.L., and Lipsitz, S.L. (2005), "Sex Differences in the Effect of Diabetes Duration on Coronary Heart Disease Mortality", *Archives of Internal Medicine*, 165: 431-435.
- 40. Sinha, D., and Ghosh, S.K. (2006), "Multiple Event Times Data: A Bayesian Recourse", Handbook of Statistics, Vol. 25, <u>Bayesian Thinking: Modeling and Computation</u>, Editors: D.K. Dey and C.R. Rao; Elsevier.
- 41. Moussa, O., Yordy, J.S., Abol-Enein, H., Sinha, D., Bissada, N.K., Halushka, P.V., Ghoneim, M.A., and Watdon, D.K. (2006), "Prognostic and Functional Significance of Thromboxane Synthase Gene Over-expression in Invasive Bladder Cancer", *Cancer Research*, **65**: 11581-11587.
- 42. Hall, Philip D., Sinha, Debajyoti and Frankel, Arthur E. (2006), "Fresh Frozen Plasma and Platelet Concentrates May Increase Plasma Anti-diphtheria Toxin IgG Concentrations: Implications for Diphtheria Fusion Protein Therapy", *Cancer Immunology and Immunotherapy*, **55** (8): 928-32.
- 43. Senkal, C.E., Ponnusamay, S., Rossi, M.J., Sundaraj, K., Szule, Z., Bielawski, J., Bielawska, A., Meyer, M., Cobanoglu, B., Koybasi, S., Sinha, D., Day, T.A., Obeid, L.M., Hannun, Y.A., and Ogretmen, B. (2006), "Potent anti-tumor activity of a novel cationic Pyridinium-Cermaide alone or in combination with Gemcitabine against human head and neck squamous cell carcinomas", *Journal of Pharmacology and Experimental Therapeutics*, 317(3): 1188 1199.
- 44. Senkal, C..E, Ponnusamy S., Rossi, M.J., Bialewski, J., Sinha, D., Jiang, J.C., Jazwinski, S.M., Hannun, Y.A., and Ogretmen, B. (2007), "Role of human longevity assurance gene 1 and C<sub>18</sub>-ceramide in chemotherapy-induced cell death in human head and neck squamous cell carcinomas", *Molecular Cancer Therapeutics*, 6, 712-722.
- 45. Kim, S., Dey, D.K., and Sinha, D. (2006), "Semiparametric multivariate survival models with random effects", *Bayesian Statistics and Its Applications* edited by S.K. Upadhyay, U. Singh and D. K. Dey, Antalaya Publishing House, New Delhi: India, 291-300.
- 46. Garrow D, Miller S, Sinha D, Hoffman BJ, Hawes RH, Conway J, Romagnuolo J. (2007), "Endoscopic Ultrasound: A meta-analysis of test performance in suspected biliary obstruction", *Clinical Gastroenterology and Hepatology*, **5**, 616-623.

- 47. Cooner, F., Banerjee, S., Carlin, B.P., and Sinha, D. (2007), "Flexible cure rate modelling under latent activation schemes", <u>Journal of American Statistical</u> Association, **102**, 560-572.
- 48. Ryu, D., Sinha, D., Mallick, B., Lipsitz, S.R. and Lipshultz, S.E. (2007), "Longitudinal Studies with Outcome Dependent Follow-Up: Models and Bayesian Regression", *Journal of American Statistical Association*, 102, 952-961.
- 49. Sinha, D., Ibrahim, J.G., Ouyang, B., and Maiti, T. (2008), "Current Methods for Recurrent Events Data with Dependent Termination: A Bayesian Perspective"; *Journal of the American Statistical Association*, 103, 866-878.
- 50. Watkins, J.M., Harper, J.L., Dragun, A.E., Ashenafi, M.S., Sinha, D., Li, J., Cole, D.J., and Jenrette, J.M. (2008), "Incidence and prognostic factors for seroma development following Mammosite breast brachytherapy (MBT)"; *Brachytherapy*, 7, 305-309.
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