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Curriculum Vitae

Rebecca A. Betensky
Department of Biostatistics
Harvard School of Public Health
655 Huntington Avenue
Boston, MA 02115
(617) 432-2821

Home:
1019 Centre Street
Newton, MA 02459
(617) 969-9630
e-mail: betensky@hsph.harvard.edu

Degrees:

1987 A.B., Mathematics, Harvard University
1992 Ph.D., Statistics, Stanford University

Positions:

2011 – Director, Biostatistics Program, Harvard Catalyst (Clinical and Translational Science Center), Harvard University
2008 – Director, Biostatistics Core, Alzheimer’s Disease Research Center, Massachusetts General Hospital
2007 – Professor, Department of Biostatistics, Harvard School of Public Health
2007 – Member, Affiliated Faculty, Harvard-MIT Division of Health Sciences and Technology (HST)
2007 – Biostatistician, Massachusetts General Hospital
2004 – Director, Training Program in Neurostatistics and Neuroepidemiology, Harvard School of Public Health
2003 – 2008 Co-Director, Initiative for Minority Student Development (IMSD) Training Program, Harvard School of Public Health
2005 – 2009 Leader, Biostatistics Program, Dana-Farber/Harvard Cancer Center
2002 – 2005, 2009 – Co-Leader, Biostatistics Program, Dana-Farber/Harvard Cancer Center
2002 – Director of Statistics, Harvard NeuroDiscovery Center (formerly HCNr)
2000 – 2007 Associate Biostatistician, Massachusetts General Hospital
1999 – 2006 Associate Professor, Department of Biostatistics, Harvard University
1998 – 2000 Assistant Biostatistician, Massachusetts General Hospital
1994 – 1999 Assistant Professor, Department of Biostatistics, Harvard University
1993 – 1994 Assistant Professor, Department of Preventive Medicine and Statistics, Northwestern University
1992 – 1993 Postdoctoral Scholar, Department of Health Research and Policy, Division of Epidemiology, Stanford University
Summer 1990 Research Assistant, Statistical Models and Methods Research Department, AT&T Bell Laboratories, Murray Hill, NJ

Teaching Experience:

- 2013 – Post-doctoral advisor for Eyal Kimchi, Department of Biostatistics, Harvard School of Public Health
- 2012 – 2014 Post-doctoral advisor for Nichte Mejia, Department of Biostatistics, Harvard School of Public Health
- 2012 – 2014 Post-doctoral advisor for Folefac Atem, Department of Biostatistics, Harvard School of Public Health
- 2011 – 2014 Post-doctoral advisor for Josephine Asafu-Adjei, Department of Biostatistics, Harvard School of Public Health
- 2010 – 2012 Post-doctoral advisor for Mahmut Gurol, Department of Biostatistics, Harvard School of Public Health
- 2010 – 2011 Post-doctoral advisor for James Berry, Department of Biostatistics, Harvard School of Public Health
- 2010 – 2011 Post-doctoral advisor for Fariba Mirzaei, Department of Nutrition, Biostatistics, Harvard School of Public Health
- 2009 – 2011 Post-doctoral advisor for Jing Qian, Department of Biostatistics, Harvard School of Public Health
- 2009 – 2010 Post-doctoral advisor for Vivek Unni, Department of Biostatistics, Harvard School of Public Health
- 2009 – 2010 Post-doctoral advisor for Nazem Atassi, Department of Biostatistics, Harvard School of Public Health
- 2009 – 2010 Post-doctoral advisor for Sarah Emerson, Department of Biostatistics, Harvard School of Public Health
- 2008 – 2010 Post-doctoral advisor for P. Grace Harrell, Department of Biostatistics, Harvard School of Public Health
- 2007 – 2010 Post-doctoral advisor for Norberto Pantoja, Department of Biostatistics, Harvard School of Public Health
- 2007 – 2008 Post-doctoral advisor for Caterina Stamoulis, Department of Biostatistics, Harvard School of Public Health
- 2006 – 2008 Post-doctoral advisor for Anand Viswanathan, Harvard School of Public Health
- 2005 – 2007 Post-doctoral advisor for Matt Gregas, Department of Biostatistics, Harvard School of Public Health
- 2004 – 2006 Post-doctoral advisor for Micha Mandel, Department of Biostatistics, Harvard School of Public Health
- 2004 – 2006 Post-doctoral advisor for Michael Irizzary, Department of Epidemiology, Harvard School of Public Health
- 2004 – 2005 Post-doctoral advisor for Emily Martin, Department of Biostatistics, Harvard School of Public Health
- 2000 Advisor for Postdoctoral Fellow, Qiong Yang, Department of Biostatistics, Harvard School of Public Health
- 2000 – 2001 Advisor for Juhua Luo, Visiting Scholar in Department of Nutrition, Harvard School of Public Health

- 2014 – Thesis advisor for Catherine Lee, Department of Biostatistics, Harvard School of Public Health
- 2011 – 2013 Thesis advisor for David Swanson, Department of Biostatistics, Harvard School of Public Health
- 2008 – 2011 Thesis advisor for Roland Matsouka, Department of Biostatistics, Harvard School of Public Health
- 2007 – 2010 Thesis advisor for Matthew Austin, Department of Biostatistics, Harvard School of Public Health
- 2006 – 2007 Thesis advisor for Daniel Maynard, Department of Biostatistics, Harvard School of Public Health
- 2004 – 2007 Thesis advisor for David Engler, Department of Biostatistics, Harvard School of Public Health
- 2004 – 2007 Thesis advisor for Stacia DeSantis, Department of Biostatistics, Harvard School of Public Health
- 2002 – 2004 Thesis advisor for Denise Scholtens, Department of Biostatistics, Harvard School of Public Health
- 2002 – 2005 Thesis advisor for Bin Zhang, Department of Biostatistics, Harvard School of Public Health
- 2000 – 2004 Thesis advisor for Emily Martin, Department of Biostatistics, Harvard School of Public Health
- 2000 – 2004 Thesis advisor for Abigail Matthews, Department of Biostatistics, Harvard School of Public Health
- 2000 – 2003 Thesis advisor for Nusrat Rabbee, Department of Biostatistics, Harvard School of Public Health
- 1996 – 1998 Thesis advisor for Judith Bebhuk of the Department of Biostatistics, Harvard School of Public Health
- Summer 2009 Advisor for Masters Thesis for Elena Verbruggen, University of Hasselt, Belgium
- Summer 2009 Advisor for Michael Mi, Harvard College Statistics Major, Program for Research in Science and Engineering (PRISE) Fellow
- 2009 – 2010 Advisor for senior honors thesis for Michael Mi, Harvard College Statistics Major

- 2006 – 2007 Course Developer and Instructor, BIO251, Statistical Inference II, Harvard School of Public Health
- 2004 – 2005 Course Developer and Instructor, BIO200, Principles of Biostatistics, Harvard School of Public Health
- 2000 – 2003 Course Developer and Instructor, BIO275ab, Operational Mathematics, Harvard School of Public Health
- 1999, 2004 Course Developer and Instructor, BIO276cd, Sequential Analysis, Harvard School of Public Health
- 1998 – 2000
- 2011 – 2014 Course Developer and Instructor, BIO231cd, Statistical Inference I, Harvard School of Public Health
- 1996 – 1997 Course Developer and Instructor, BIO216cd/BIO223cd, Applied Survival Analysis, Harvard School of Public Health
- 2005 – Director and Instructor of HST 190: Introduction to Biostatistics and Epidemiology, Health Science and Technology Program, Harvard Medical School and Massachusetts Institute of Technology
- 2002 – 2004 Co-Director and Instructor of HST 190: Introduction to Biostatistics and Epidemiology, Health Science and Technology Program, Harvard Medical School and Massachusetts Institute of Technology
- 2002 Co-organizer of Schering-Plough Workshop on Adaptive Designs
- 2000 – 2001 Co-instructor of interdisciplinary seminar course: Research Workshop in Applied Statistics (GOV3009)
- 2003 – Director of Summer Program in Quantitative Sciences, Department of Biostatistics, Harvard School of Public Health
- 2000,2001 Organizer of January short courses in Biostatistics on frailty models, computational biology, brain imaging, wavelets, Harvard School of Public Health
- 1999 – 2002 Faculty advisor for Summer Program in Biostatistics for Underrepresented Minority Students
- 1996 Organizer of departmental working group on interval censored data

Honors and Awards:

- 1987 A. B. Harvard University, cum laude in Mathematics
- 1996 Schering Plough Junior Faculty Award
- 1998 NIH FIRST Award
- 2003 Fellow of the American Statistical Association
- 2005 Mortimer Spiegelman Award of the American Public Health Association for outstanding contributions to health statistics by a statistician under 40
- 2007 Elected Member of International Statistical Institute
- 2010 Speaker at Research Day, School of Public Health and Health Sciences, University of Massachusetts, Amherst

Professional Societies:

American Statistical Association, International Biometric Society

Professional Service:

- 1995 Contract Review, National Institute on Drug Abuse
- 1995 – Referee, *Journal of the American Statistical Association*, *Biometrika*, *Biostatistics*, *Annals of Statistics*, *Sequential Analysis*, *Applied Statistics*, *Annals of Applied Probability*, *Biometrics*, *Controlled Clinical Trials*, *Computational Statistics and Data Analysis*, *Statistics in Medicine*, Multivariate, Design and Analysis
- 2000 Invited participant in NCI/NINDS Brain Tumor Progress Review Group (PRG) Roundtable Meeting
- 2000 – 2005 Editorial Board member, *Neuro-Oncology*
- 2000 – 2006 Associate Editor, *Biometrics*
- 2001 – 2004 Associate Editor, *Lifetime Data Analysis*
- 2002 Associate Editor, *Journal of Statistical Planning and Inference*
- 2002 – 2008 Associate Editor, *Statistics in Medicine*
- 2008 – 2012 Associate Editor, *Biostatistics*
- 2002 – 2003 Program Chair Biometrics Section of American Statistical Association for Joint Statistical Meetings, 2003
- 2003 – 2007 Permanent Member NIH study section, Biostatistical Methods and Research Design (BMRD, formerly SNEM5)
- 2003 Invited participant in NCI/NINDS Comprehensive Molecular Analysis of Human Gliomas and Medulloblastomas Meeting
- 2004 – 2007 Member, Research Evaluation Panel for NCI sponsored Cooperative Breast Cancer Tissue Resource (CBCTR)
- 2008 Invited participant in NCI/NHGRI sponsored “Genomics and Biology of GBM, a TCGA Workshop”
- 2009 Reviewer for Institute of Medicine, “Veterans and Agent Orange: 7th Biennial Update”
- 2009 – 2011 Permanent Member, NIH Cancer Biomarkers Study Section
- 2009 – 2010 Interim Statistical Consultant, *New England Journal of Medicine*
- 2010 Reviewer of the Biostatistics Branch (BB) of the NCI Intramural Program
- 2011 – 2013 Member Institute of Medicine Committee on Cognitive Rehabilitation Therapy in Traumatic Brain Injury
- 2012 – 2013 Member Institute of Medicine Committee on Health Effects of Agent Orange on Viet Nam Veterans
- 2013 Member Committee on Diversity, American Statistical Association
- 2013 – Statistical Editor, *Annals of Neurology*
- 2014 Reviewer of the Biostatistics Branch (BB) of the NCI Intramural Program
- 2014 – Co-Chair, Scientific Registry of Transplant Recipients (SRTR) Technical Advisory Committee

Invited Talks

- 1996 Yale University, Joint Statistics-Biostatistics Seminar, “Local EM Estimation of the Hazard Function for Interval Censored Data”
- 1998 Harvard-Schering Plough Conference on Monitoring of Clinical Trials, “Some Perspectives on Early Stopping in Favor of H_0 ”
- 1998 Drug Information Association Thirty Fourth Annual Meeting, “Alternative Derivations of a Rule for Early Stopping in Favor of the Null Hypothesis.”
- 1999 Joint Statistical Meetings, IMS Invited Papers Session on “Interval Censored and Panel Count Data,” “Using Conditional Logistic Regression to Fit Proportional Odds Models to Interval Censored Data.”
- 2000 Schering-Plough, Biostatistics Seminar, “Computationally simple regression for interval censored data.”
- 2000 University of Wisconsin, Madison, Biostatistics Seminar, “Testing and adjusting for selection bias in a partially retrospective molecular genetic neuro-oncology study.”
- 2001 Schering-Plough, Biostatistics Seminar, “Testing for dependence between failure time and visit compliance with interval censored data.”
- 2001 Johns Hopkins Biostatistics Seminar, Baltimore, MD
- 2001 International Chinese Statistical Association, Chicago, IL
- 2001 University of Waterloo Statistics Seminar, Waterloo, CA
- 2002 International Indian Statistical Association Conference, Northern Illinois University, DeKalb, Illinois
- 2002 Institute of Mathematical Statistics Annual Meeting, Banff, Canada
- 2002 Joint Statistical Meetings, New York, NY
- 2002 Bayer Strategic Planning meeting, New Haven, CT
- 2003 Pfizer Cancer Colloquium, Groton, CT
- 2003 Fifth Annual FDA/Industry Statistical Workshop, Bethesda, MD
- 2003 Dana-Farber/Harvard Cancer Center Biostatistics Program Fall Workshop
- 2003 Yale Department of Biostatistics Colloquium, New Haven, CT
- 2003 Memorial Sloan Kettering Cancer Center Department of Biostatistics Seminar, New York, NY
- 2003 Columbia University Department of Biostatistics Seminar, New York, NY
- 2003 Boston University Department of Mathematics Seminar, Boston, MA

- 2004 3rd EORTC-NCI International Meeting on Cancer Molecular Markers: From Discovery to Clinical Practice, Brussels, Belgium (abstract selected for oral presentation)
- 2004 University of Rochester Department of Biostatistics Seminar, Rochester, NY
- 2004 International Conference on Analysis of Genomic Data, Boston, MA
- 2004 New Jersey Chapter of the American Statistical Association 25th Spring Symposium on Advances in Survival Analysis Methods for Clinical Trials, Piscataway, NJ
- 2005 International Biometric Society, Eastern North American Region, Austin, TX
- 2005 Boston University Department of Biostatistics Seminar, Boston, MA
- 2005 Simon Fraser University Department of Statistics Seminar, Vancouver
- 2005 Workshop on Survival Analysis (Keynote speaker), CRM, University of Montreal
- 2006 Visiting Professor (Grand Rounds and Teaching Rounds), University of Chicago Department of Neurosurgery, Chicago, IL
- 2006 International Biometric Society, Eastern North American Region, Tampa, FL (Junior Investigators Workshop: Grant Writing)
- 2006 International Biometric Society, Eastern North American Region, Tampa, FL (IMS session)
- 2006 International Biometric Society, Montreal, CA (abstract accepted for oral presentation)
- 2006 International Society for Clinical Biostatistics, Geneva, Switzerland, (abstract accepted for oral presentation)
- 2006 Harvard Medical School Division on Aging/McLean Hospital Geriatric Psychiatry Seminar Series, Boston, MA
- 2006 Harvard Applied Statistics Workshop, Department of Government
- 2006 Dana-Farber/Brigham and Women's Cancer Center Neuro-oncology Conference Series
- 2007 Pfizer Statistical Research Group Seminar, New London, CT
- 2007 Applied Statistics Symposium, International Chinese Statistical Association Annual Meeting, Raleigh, NC
- 2008 University of Michigan Department of Biostatistics Seminar, Ann Arbor, MI
- 2008 Cowen & Company 11th Annual Therapeutics Conference, New York, NY
- 2009 Joint Statistical Meetings, Washington, DC
- 2009 International Society for Clinical Biostatistics, Prague, Czech Republic
- 2009 Yale Department of Biostatistics Seminar, New Haven, CT

- 2010 New York University Department of Statistics (Stern School of Business) Seminar, New York, NY
- 2010 University of Massachusetts Department of Biostatistics Seminar, Amherst, MA
- 2010 Frontiers in Applied and Computational Mathematics 2010 (FACM '10), New Jersey Institute of Technology, Newark, NJ
- 2011 EH527: Molecular Signals to Understand Exposure Biology, Harvard School of Public Health, Boston, MA
- 2011 Centre De Recherces Mathematiques, Analysis of Survival and Event History Data Workshop, Montreal, CA
- 2011 Harvard School of Public Health Brain Health Colloquium: Symposium on issues in the design and analysis of Alzheimer's Disease Studies, Boston, MA
- 2012 Harvard College Department of Statistics, Junior Concentrators' Seminar, Cambridge, MA
- 2012 EH527: Molecular Signals to Understand Exposure Biology, Harvard School of Public Health, Boston, MA
- 2012 Annual Conference on Statistical Issues in Clinical Trials, University of Pennsylvania, Philadelphia, PA
- 2012 International Society for Clinical Biostatistics, Bergen Norway
- 2013 7th Meeting of the Eastern Mediterranean Region of the International Biometric Society, Tel Aviv, Israel
- 2013 Symposium on Adaptive Clinical Trials: Statistical, Ethical & Regulatory Considerations, Harvard Medical School, Boston, MA
- 2013 Biostatistics Department Seminar, University of Kansas Medical Center, Kansas City, Kansas
- 2013 6th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK
- 2014 Ivy Plus Symposium, Cambridge, MA
- 2014 International Biometric Society, Florence, Italy (abstract accepted for oral presentation)

Major Research Interests

Survival analysis, cancer genomics, latent class modeling, genetic epidemiology, correlated binary data.

Major Administrative Responsibilities

1995 –	Member, written Qualifying Exam Committee, Department of Biostatistics
1995 – 1996	Member, Thesis Committees, Soyeon Kim, Qing Liang, Helene Boucher, Carrie Wager
1999 – 2001	Chair, Department of Biostatistics Colloquium Committee
2000	Chair, Search Committee for Junior Faculty Member in Environmental Health
2001	Member, Dean’s planning committee for Junior Faculty Retreat
2001 – 2002	Chair, Search Committee for Program in Population Genetics
2002 –	Director of Statistics, Center for Translational Neurology Research, Harvard Center for Neurodegeneration and Repair
2002 – 2005, 2010 –	Co-Leader, Biostatistics Program, Dana-Farber/Harvard Cancer Center
2002,2005,2006, 2011	Chair, Written Qualifying Exam Committee, Department of Biostatistics
2002	Member, Search Committee for Junior Faculty Member in Epidemiologic Methods
2002 – 2003	Member, Search Committee for Junior Faculty Member in Statistical Genetics and Environmental Statistics
2002	Member, Dean’s informal divisional planning group
2002	Member, Dean’s Strategic Theme Development Working Group
2002 – 2006	Member, Committee on Educational Policy, HSPH
2003 – 2008	Member, Faculty Diversity Committee, HSPH
2003 – 2008	Co-Director, NIH sponsored IMSD minority student forum and summer program
2004 – 2014	Director, NINDS sponsored T32 training grant, “Training in Neurostatistics and Neuroepidemiology.”
2005 – 2010	Leader, Biostatistics Program, Dana-Farber/Harvard Cancer Center
2006 – 2008	Chair, Diversity Committee, Department of Biostatistics, HSPH
2007 – 2010	Chair, Curriculum Committee, Department of Biostatistics, HSPH
2008 – 2008	Member, Committee on the Concerns of Women Faculty, HSPH
2008 – 2009	Chair, Search Committee for Chair of Biostatistical Sciences at DFCI and Professor of Biostatistics at HSPH
2009 – 2011	Chair, Committee on the Concerns of Women Faculty, HSPH
2010 – 2011	Chair, Promotion Committee for faculty member in Biostatistics, HSPH

Major Administrative Responsibilities, continued

- 2011 – 2012 Member, Dean’s Institutional Sustainability Taskforce
- 2012 – 2014 Member, Standing Committee on Appointments, Reappointments and Promotions, HSPH
- 2012 Member, Ad Hoc tenure review committee for Harvard Medical School statistician, HMS
- 2013 Member, Ad Hoc tenure review committee for Harvard Medical School epidemiologist, HMS
- 2013 Chair, Department of Biostatistics Search Committee for junior faculty member, HSPH

Research and Training Support

- 1996 Schering-Plough Award for Junior Faculty, Department of Biostatistics.
- 1997 – 2003 NIH FIRST Award (CA 075971)
- 2003 – 2013 NIH R01 (CA 075971)
- 2003 – 2006 NIH R03 (CA 105956)
- 2004 – 2019 NIH T32 (NS 048005)
- 2004 – 2010 NIH T35 (ES 007293)
- 2006 – 2011 NIH R03 (CA 121884)
- 2007 – 2010 NIH R25 (GM 055353)
- 2012 – 2014 NIH R03 (CA 165070)
- 2013 – 2018 NIH T36 (GM 093773)

Publications

1. Gelman, R. S., Tormey, D. C., Betensky, R., et al. Actual versus ideal weight in the calculation of surface area: effects on dose of 11 chemotherapy agents, *Cancer Treatment Reports*, 1987; **71**, 907–911.
2. Whittemore, A. S., Keller, J. B., Betensky, R. Low-grade, latent prostate cancer volume: predictor of clinical cancer incidence?, *Journal of the National Cancer Institute*, 1991; **83**, 1231–1235.
3. Betensky, R. A. (1997) Conditional power calculations for early acceptance of H_0 embedded in sequential tests, *Statistics in Medicine*, **16**, 465-477.
4. Betensky, R. A. (1996) An O'Brien-Fleming sequential trial for comparing three treatments, *Annals of Statistics*, **24**, 1765-1791.
5. Betensky, R. A. & Whittemore, A. S. (1996) An analysis of correlated multivariate binary data: application to familial cancers of the ovary and breast, *Applied Statistics*, **45**, 411-429.
6. Betensky, R. A. (1997). Local estimation of smooth curves for longitudinal data, *Statistics in Medicine* **16**, 2429-2445.
7. Betensky, R. A. (1997). Early stopping to accept H_0 based on conditional power: approximations and comparisons, *Biometrics* **53**, 794-806..
8. Betensky, R. A. (1997). Sequential analysis of censored survival data from three treatment groups, *Biometrics* **53**, 807-822.
9. Betensky, R. A. and Tierney, C. (1997). An examination of methods for sample size re-calculation during an experiment, *Statistics in Medicine* **16**, 2587-2598.
10. Betensky, R. A. (1998). Multiple imputation for early stopping of a complex clinical trial. *Biometrics* **54**, 229-242.
11. Betensky, R. A. (1998). A boundary crossing probability for the Bessel process, *Advances in Applied Probability*, **30**, 807-830.
12. Betensky, R. A. (1998) Construction of a continuous stopping boundary from an alpha spending function, *Biometrics* **54**, 1061-1071.
13. Betensky, R. A. and Rabinowitz, D. (1999) Maximally selected χ^2 statistics for $k \times 2$ tables. *Biometrics* **55**, 317-320.
14. Betensky, R. A., Lindsey, J. C., Ryan, L. M., and Wand, M. (1999). Local EM estimation of the hazard function for interval censored data. *Biometrics* **55**, 238-245.
15. Weinberg, A., Betensky, R., Zhang, L., and Ray, G. (1998) Effect of shipment and storage, anticoagulant, and cell separation on lymphocyte proliferation assays in HIV-infected patients. *Clinical and Diagnostic Laboratory Immunology* **5**, 804-807.

16. Betensky, R. A. and Finkelstein, D. M. (1999) A nonparametric maximum likelihood estimator for bivariate interval censored data. *Statistics in Medicine* **18**, 3089-3100.
17. Marschner, I. C., Betensky, R. A., Degruittola, V., Hammer, S. M. and Kuritzkes, D. R. (1999) Clinical trials using HIV-1 RNA-based endpoints: statistical analysis and potential biases. *J Acquir Immune Defic Syndr Hum Retrovirol.* **20**, 220-227.
18. Betensky, R. A., Calvelli, T., and Pahwa, S. (1999). The predictive value of CD19 measurements for bacterial infections in children infected with HIV. *Clinical and Diagnostic Laboratory Immunology* **6**, 247-253.
19. Bechuk, J. D. and Betensky, R. A. (2000) Multiple imputation for simple estimation of the hazard function based on interval censored data. *Statistics in Medicine* **19**, 405-419.
20. Betensky, R. A. (2000). Alternative derivations of a rule for early stopping in favor of H_0 . *The American Statistician* **54**, 35-39.
21. Betensky, R. A. and Finkelstein, D. M. (1999) An extension of Kendall's coefficient of concordance to bivariate interval censored data. *Statistics in Medicine* **18**, 3101-3109.
22. Betensky, R. A. (2000) Redistribution algorithms for censored data. *Statistics and Probability Letters* **46**, 385-389.
23. Betensky, R. A. (2000) On nonidentifiability and noninformative censoring for current status data. *Biometrika*, **87**, 218-221.
24. Rabinowitz, D., Betensky, R. A., and Tsiatis, A. A. (2000) Using conditional logistic regression to fit proportional odds models to interval censored data. *Biometrics* **56**, 511-518.
25. Hundeiker, C., Pineau, T., Cassar, G. Betensky, R. A., Gleichmann, E., and Esser, C. (1999) Thymocyte development in AH-receptor-deficient mice is refractory to TCDD-inducible changes. *International Journal of Immunopharmacology* **21**, 841-859.
26. Betensky, R. A, Williams, P., and Lederman, H. M. (2001) A comparison of models for clustered binary outcomes: analysis of a designed immunology experiment. *Applied Statistics* **50**, 43-61.
27. Rabinowitz, D. and Betensky, R. A. (2000) Approximating the distribution of maximally selected McNemar's statistics. *Biometrics*, **56**, 897-902.
28. Betensky, R. A., Talcott, J. A., and Weeks, J. C. (2000) Binary data with two, non-nested sources of clustering: an analysis of physician recommendations. *Biostatistics*, **1**, 219-230.

29. Betensky, RA, Connick, E., Devers, J, Landay, A.L., Nokta, M., Plaeger, S. , Rosenblatt, H., Schmitz, J.L., Valentine, F., Wara, D., Weinberg, A., Lederman, H. (2000) Shipment impairs lymphocyte proliferative responses to microbial antigens. *Clinical and Diagnostic Laboratory Immunology* **7**, 759-763.
30. Betensky, R.A. and Rabinowitz, D. (2000) Simple approximations for the maximal transmission/disequilibrium test with a multi-allelic marker. *Annals of Human Genetics* **64**, 567-574.
31. Betensky, R. A. and Schoenfeld, D. A. (2001) Nonparametric estimation in a cure model with random cure times. *Biometrics* **57**, 282-286.
32. Betensky, R. A., Rabinowitz, D. and Tsiatis, A. A. (2001) Computationally simple accelerated failure time regression for interval censored data. *Biometrika* **88**, 703-712.
33. Hudson, J. I., Laird, N. M. and Betensky, R. A. (2001) Multivariate logistic regression models for familial aggregation of two disorders: I. Development of Models and Methods. *American Journal of Epidemiology*, **153**, 500-505.
34. Hudson, J. I., Laird, N. M., Betensky, R. A., Keck, P. E., and Pope, H. G. (2001) Multivariate logistic regression for familial aggregation of two disorders: II. Analysis of studies of eating and mood disorders. *American Journal of Epidemiology*, **153**, 506-514.
35. Betensky, R.A., Hudson, J.I., Jones, C.A., Hu, F., Wang, B., Chen, C., and Xu, X. (2001) A computationally simple test of homogeneity of odds-ratios for twin data. *Genetic Epidemiology* **20**, 228-238.
36. Betensky, R. A. (2001) Optimally selected chi square statistics for equivalence testing. *Journal of Statistical Inference and Planning* **93**, 247-257.
37. Bechuk, J. D. and Betensky, R. A. (2001) Local likelihood analysis of survival data with censored intermediate events. *JASA* **96**, 449-457.
38. Ino, Y., Betensky, R.A., Zlatescu, M.C., Sasaki, H., Macdonald, D.R., Stemmer-Rachamimov, A.O., Ramsay, D.A., Cairncross, J.G. and Louis, D.N. (2001). Molecular subtypes of anaplastic oligodendroglioma: implications for patient management at diagnosis. *Clinical Cancer Research* **7**, 839-845.
39. Sasaki, H., Zlatescu, M.C., Betensky, R.A., Ino, Y., Cairncross, J.G., Louis, D.N. (2001) PTEN is a target of chromosome 10q loss in anaplastic oligodendrogliomas and PTEN alterations are associated with poor prognosis. *American Journal of Pathology* **159**, 359-367.
40. Rabinowitz, D. and Betensky, R.A. (2002). Testing for familial correlation in age-at-onset. *Biostatistics* **3**, 77-85.

41. Betensky, R. A., Lindsey, J. C., Ryan, L. M., and Wand, M. P. (2002) A local likelihood proportional hazards model for interval censored data. *Statistics in Medicine* **21**, 263-275.
42. Sharon, R., Goldberg, M.S., Bar-Josef, I., Betensky, R.A., Shen, J., Selkoe, D.J. (2001). α -Synuclein occurs in lipid-rich high molecular weight complexes, binds fatty acids, and shows homology to the fatty acid-binding proteins. *Proceedings of the National Academy of Science* **98**, 9110-9115.
43. Zlatescu, M.C., TehraniYazdi, A., Sasaki, H., Megyesi, J.F., Betensky, R.A., Louis, D.N., Cairncross, J.G. (2001). Tumor location and growth pattern correlate with genetic signature in oligodendroglial neoplasms. *Cancer Research* **61**, 6713-6715.
44. Li, Y., Betensky, R.A., Louis, D.N., Cairncross, J.G. (2001). The use of frailty hazard models for unrecognized heterogeneity that interacts with treatment: considerations of efficiency and power. *Biometrics* **58**, 232-236.
45. Lake, S., Kammann, E., Klar, N., Betensky, R. (2002) Sample size re-estimation in cluster randomization trials. *Statistics in Medicine* **21**, 1337-1350.
46. Sasaki, H., Zlatescu, M.C., Betensky, R.A., Johnk, L.B., Cutone, A.N., Cairncross, J.G., Louis, D.N. (2001). Histopathological-molecular genetic correlations in referral pathologist-diagnosed low-grade "oligodendroglioma." *Journal of Neuropathology and Experimental Neurology* **61**, 58-63.
47. Betensky, R.A. and Finkelstein, D.M. (2002). Testing for dependence between failure time and visit compliance with interval censored data. *Biometrics* **58**, 58-63.
48. Sasaki, H., Betensky, R.A., Cairncross, J.G., Louis, D.N. (2002) DMBT1 polymorphisms: relationship to malignant glioma tumorigenesis. *Cancer Research* **62**, 1790-1796.
49. Betensky, R.A., Cairncross, J.G. and Louis, D.N. (2003). Analysis of a molecular genetic neuro-oncology study with partially biased selection. *Biostatistics* **4**, 167-178.
50. Betensky, R.A., Louis, D.N., Cairncross, J.G. (2002). The influence of unrecognized molecular heterogeneity on randomized clinical trials. *Journal of Clinical Oncology* **20**, 2495-2499.
51. Bechuk, J. D. and Betensky, R. A. (2002) Local likelihood analysis of latency with interval censored intermediate events. *Statistics in Medicine* **21**, 3475-3491.
52. Arboleda-Velasquez, J.F., Lopera, F., Lopez, E., Frosch, M.P., Sepulveda-Falla, D., Gutierrez, J.E., Vargas, S., Medina, M., Martinez de Arrieta, C., Lebo, R.V., Slausenhaupt, S.A., Betensky, R.A., Villegas, A., Arcos, M., Rivera, D., Restrepo, J.C., Kosik, K.S. (2002). C455R Notch3 mutation in a Columbian CADASIL kindred with early onset of stroke. *Neurology* **59**, 277-279.

53. Betensky, R.A. and Martin, E.C. (2003) Comments on: "Failure-rate functions for doubly-truncated random variables." *IEEE Transactions on Reliability* **52**, 7-8.
54. Braaten, K.M., Betensky, R., de Leval, L., Okada, Y., Hochberg, F., Louis, D.N., Harris, N.L., Batchelor, T.T. (2003). Bcl-6 expression predicts improved survival in patients with primary central nervous system lymphoma. *Clinical Cancer Research* **9**, 1063-1069.
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