

## CURRICULUM VITAE

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Education: Pomona College, BA, (Mathematics), 1968  
University of Washington, MS,  
(Biomathematics), 1970  
University of Washington, Ph.D.,  
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### Positions:

NIH Post-doctoral Fellow, Department of Statistics and Division of Biostatistics, Department of Community and Preventive Medicine, Stanford University, 1973-74.  
Assistant Professor, Departments of Human Oncology and Statistics, University of Wisconsin-Madison, 1974-79.  
Associate Professor, Departments of Human Oncology and Statistics, University of Wisconsin-Madison, 1979-81.  
Associate Member, Fred Hutchinson Cancer Research Center, Seattle, Washington, 1981-84.  
Associate Professor, Department of Biostatistics, University of Washington, Seattle, Washington, 1981-84.  
Program Head, Biostatistics, Fred Hutchinson Cancer Research Center, 1983-1994.  
Member, Fred Hutchinson Cancer Research Center, Seattle, Washington, 1984-2001.  
Professor, Department of Biostatistics, University of Washington, Seattle, Washington, 1984-2005.  
Group Statistician and Director of Statistical Center, Southwest Oncology Group, 1984-present.  
President and Chief Executive Officer, Cancer Research And Biostatistics, 1997-present.

### Honors:

Spiegelman Award, American Public Health Association, 1985  
Fellow, American Statistical Association, 1988  
Fellow, American Association for the Advancement of Science, 1991  
First Annual Kashinath Patil Lecturer, 1999

Societies:

American Association for Cancer Research  
 American Association for the Advancement of Science  
 American Society for Clinical Oncology  
 American Statistical Association  
 International Biometrics Society  
 International Association for the Study of Lung Cancer  
 Society for Clinical Trials

Professional Activities:**Editorial:**

Associate Editor, Journal of the American Statistical Association, (Theory and Methods), 1979-82.  
 Associate Editor, Statistics and Probability Letters, 1982-84.  
 Associate Editor, Annals of Statistics, 1983-84.  
 Statistical Editor, Journal of Thoracic Oncology, 2006-present.

**National:**

National Research Council Committee on Department of Energy Research on Health Effects of Ionizing Radiation, 1978-79.  
 National Research Council Committee on Federal Research on Biological and Health Effects of Ionizing Radiation, 1979-81.  
 Co-organizer, Institute for Mathematical Statistics Special Topics Conference on Survival Analysis, October 1981.  
 Regional Committee, Biometric Society, Western North American Region, 1983-85.  
 Program Chairman, Biometric Society, Western North American Region, 1984.  
 Member, Ad Hoc Panel of Experts associated with the Scientific Reports Review Subcommittee, National Toxicology Program, 1985-86.  
 Contributed Papers and Publications Chairman, 13th International Biometrics Conference, 1986.  
 President, Biometric Society, Western North American Region, 1987 (President-elect, 1986; Past President, 1988).  
 Council, International Biometric Society, 1988-91.  
 Member, Cancer Clinical Investigations Review Committee, 1987-90.  
 Nominating Committee, American Association for the Advancement of Science, Section U (Statistics), 1990-93; Chair, 1992-93.  
 Program Coordinator, Biometric Society, Western North American Region, 1990-93.  
 Member, External Advisory Committee, San Antonio Cancer Institute, 1996-99.  
 External Advisor, Arkansas Center for Myeloma Research, 1995-2001.  
 Member, Breast Cancer Consensus Conference Panel, 2000.  
 Member, Data and Safety Monitoring Committee, St. Jude's, 2000-present.  
 Member, Medical Advisory Board, NexCura, 2000-present.  
 Member, External Advisory Committee, University of California at Davis Cancer Center, 2001-present.

**International:**

Board of Directors, International Myeloma Foundation, 2005-present.

## PUBLICATIONS:

1. Breslow N, Crowley J. Large sample properties of the life table and PL estimates under random censorship. *Annals of Statistics* 2:437-453, 1974.
2. Crowley J. Asymptotic normality of a new nonparametric statistic for use in organ transplantation studies. *JASA* 69:1006-1011, 1974.
3. Crowley J. A note on some recent likelihoods leading to the log rank test. *Biometrika* 61:533-538, 1974.
4. Crowley J, Breslow N. Remarks on the conservatism of  $(0-E)2/E$  in survival data. *Biometrics* 31:957-962, 1975.
5. Alderman EL, Davies RO, Crowley J, et al. Dose response effectiveness of propranolol for the treatment of angina pectora. *Circulation* 51:964-975, 1975.
6. Crowley J, Hu M. Covariance analysis of heart transplant survival data. *JASA* 72:27-36, 1977.
7. Rose DP, Stauber P, Thiel A, Crowley J, et al. Plasma dehydro-epiandrosterone sulfate, androstenedione and cortisol, and urinary free cortisol excretion in breast cancer. *Eur J Cancer* 3:43-47, 1977.
8. Gould MN, Jirtle R, Crowley J, Clifton K. Re-evaluation of the number of cells involved in the neutron induction of mammary neuroplasms. *Cancer Res* 38:189-192, 1978.
9. Gould MN, Clifton KH, Crowley J. Effects of endocrinological conditions associated with acute versus chronic lactation on the incidence of mammary carcinomas in irradiated rats: Brief communication. *J Natl Cancer Inst* 60:469-471, 1978.
10. Clifton KH, Crowley J. Effects of radiation type & dose & role of glucocorticoids in mammary tumor induction in MtT-grafted rats. *Cancer Res* 38:1507-1513, 1978.
11. Baumgartener LE, Crowley J, Entine S, et al. Influence of sire on BLV infection in progeny. *Zbl. Vet Med B* 25:202-210, 1978.
12. Hoogerland DL, Buchler DA, Crowley J, et al. Estrogen use-- risk of endometrical carcinoma. *Gyn Oncol* 6:451-458, 1978.
13. Dubner HN, Crowley J, Schilling RF. Prognostic value of nucleoli and cell size in chronic lymphocytic leukemia. *Am J Hematol* 4:337-341, 1978.
14. Schilling RF, Crowley J. Prognostic factors in chronic myelocytic leukemia. *Am J Hematol* 7:1-10, 1979.
15. Crowley J. Some extensions of the log rank test. In *Lecture Notes in Medical Informatics 4. Clinical Trials in "Early" Breast Cancer--Methodologic & Clinical Aspects of Treatment Comparisons*. Proceedings, Heidelberg Germany 1978. HR Scheurlen, G Weckesser, I Armbruster, eds. New York: Springer-Verlag, pp. 213-223, 1979.
16. Hunter WG, Crowley J. Hazardous substances, the environment & public health: A statistical viewpoint. *Environ Hlth Perspec* 32:241-254, 1979. Translated into German into two papers: *Arbeitsmedizin, Sozialmedizin, Preventivmedizin* 17:142-146 and 177-181, 1982.
17. Coates AS, Klopp RG, Zarling JM, Borden EC, Crowley J, Carbone PP. Immunologic function during adjuvant BCG immunotherapy for malignant melanoma: Induction of energy. *Cancer Immunol Immunother* 7:175-179, 1979.
18. Pandya KJ, Tormey DC, Davis TE, Falkson G, Banerjee TK, Crowley J. A phase II trial of 6-thioguanine in metastatic breast cancer. *Cancer Treat Rep* 64:191-192, 1980.
19. Pandya KJ, Whitehead R, Crowley J, et al. Elevated plasma aldosterone levels in patients with liver metastases. A rationale for spirono-lactone therapy. *JAMA* 244:171-172, 1980.
20. Hogan TE, Borden EC, Freeburg BL, Vieau J, Hsieh F-Y, Crowley J. Enhancement in recall antigen responses by frequent, repetitive skin testing with candida, mumps, and streptokinase-streptodornase in 38 normal adults. *Cancer Immunol Immunother* 10:27-31, 1980.
21. Hogan TE, Borden EC, Loenhardt PH, Voelkel JG, Crowley J. Growth modification in human cells by Poly I: Poly C Amphotericin B Methyl Ester. In *Interferon: Properties & Clinical Uses*. A Kahn, NO Hill, GL Dorn; eds. Dallas: Leland Fikes Foundation Press, pp. 609-618, 1980.
22. Davis TE, Kahn L, Tormey DC, Larson FC, Anderson SA, Crowley J, Carey RN. Clinical studies of a fast homoarginine-sensitive alkaline phosphate (FHAP) in patients with cancer. *Cancer Res* 41:1110-1113, 1981.
23. Tunca JC, Buchler DA, Mack EA, Ruzicka FF, Crowley J, Carr WF. The management of ovarian cancer caused bowel obstruction. *Gynecol Oncol* 12:186-192, 1981.

24. Chang Y-C, Falkson G, Tormey DC, Crowley J. Phase I-II evaluation of combination cyclophosphamide, 5-fluorouracil, hexamethylmelamine & prednisone in advanced breast cancer. *Cancer Clin Trials* 4:77-79, 1981.
25. Robins HI, Tormey DC, Skelley MJ, Falkson G, Crowley J, Ramirez G, Falkson H. Vindesine: A phase II trial in advanced breast cancer patients. *Cancer Clin Trials* 4(4):371-375, 1981.
26. Breslow N, Crowley J. Contribution to the discussion of the paper "Survival times: Aspects of partial likelihood" by David Oakes. *Intl Stat Review* 49:255-257, 1981.
27. Jirtle RL, Michalopoulos G, McLain JR, Crowley J. Transplantation system for determining the clonogenic survival of parenchymal hepatocytes exposed to ionizing radiation. *Cancer Res* 41:3512-3518, 1981.
28. Tormey DC, Davis TE, Falkson G, Crowley J. Combination chemotherapy + tamoxifen in advanced breast cancer. *Reviews on Endocrine-Related Cancer Supplement* 9, pp. 484-489, 1981.
29. Wiley AL, Wirtanen GW, Davis TE, Ramirez G, Davis HL, Carbone PP, Wolberg WH, Johnson RO, Crowley J. Preliminary results on the treatment of unresectable pancreatic carcinoma with a combination of precision (intra arterial) chemotherapy & precision radiation therapy. In *Pancreatic Cancer: New Directions in Therapy Management*. I Cohn, ed. New York: Masson Pub Co, pp. 97-106, 1981.
30. Brookmeyer R, Crowley J. A confidence interval for the median survival time. *Biometrics* 38:29-41, 1982.
31. Tormey DC, Falkson G, Crowley J, et al. Dibromodulcitol & adriamycin + tamoxifen in advanced breast cancer. *Am Journal of Clinical Oncology Cancer: Clinical Trials* 5:33-39, 1982.
32. Schilling RF, McKnight B, Crowley J. Prognostic value of serum lactic dehydrogenase level in Hodgkin's disease. *J Laboratory Clin Med* 99:382-387, 1982.
33. Brookmeyer R, Crowley J. A k-sample median test for censored survival data. *JASA* 77:433-440, 1982.
34. Crowley J, Voelkel J. Contribution to the discussion of "linear nonparametric tests for comparison of counting processes," by Anderson, Borgan, Gill and Kelding. *Intl Stat Review* 50:247-248, 1982.
35. Chang YC, Falkson G, Tormey DC, Crowley J. A pilot study of mitomycin C & tamoxifen (MT) versus dibromodulcitol adriamycin, & tamoxifen (DAT). *Am Journal of Clinical Oncology* 5:521-525, 1982.
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37. Crowley J, Liu PY, Voelkel JG. Estimation of the ratio of hazard functions. *Survival Analysis: IMS Lecture Notes, Monograph Series, Volume 2*. J Crowley, RA Johnson; eds. Hayward CA: The Institute of Mathematical Statistics, pp. 56-73, 1982.
38. Leurgans S, Tsai W-Y, Crowley J. Freund's bivariate exponential distribution & censoring. In *Survival Analysis IMS Lecture Notes Monograph Series, Vol 2*. J Crowley, RA Johnson; eds. Hayward CA: The Institute of Mathematical Statistics, pp. 230-242, 1982.
39. Meeker TC, Siegel MS, Shiota FM, Crowley J, McGuffin RW. Toxicity of amphotericin B, miconazole & ketoconazole to human granulocyte progenitor cells *in vitro*. *Antimicrob Agents Chemother* 23(1):169-171, 1983.
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43. Crowley J, Storer BE. Comment on "A reanalysis of the Stanford heart transplant data" by M Aitkin, N Laird, B Francis. *JASA* 78:277-281, 1983.
44. Crowley J: Book review of "Survival Analysis" by Rupert Miller. *American Scientist*, 1983.
45. Voelkel JG, Crowley J. Nonparametric inference for a class of semi-Markov processes with censored observations. *Annals of Statistics* 12:142-160, 1984.
46. Schilling RF, McKnight B, Crowley J. Prognostic value of blood glucose in Hodgkin's disease. *Journal of Clinical Oncology* 2:828-830, 1984.

47. Wade JU, Day LM, Crowley J, et al. Recurrent herpes simplex virus infection after marrow transplant: Role of the specific immune response & acyclovir treatment. *J Infect Dis* 149:750-756, 1984.
48. McKnight B, Crowley J. Tests for differences in tumor incidence based on animal carcinogenesis experiments. *JASA* 79:639-648, 1984.
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50. Crowley J, Breslow N. Statistical analyses of survival data. In *Annual Review of Public Health, Vol 5*. N Breslow, ed. Palo Alto CA: Annual Reviews Inc, pp. 385-441, 1984.
51. Storer BE, Crowley J. Diagnostics for Cox regression. *Proceedings of the 12th International Biometrics Conference*, pp. 163-175, 1984.
52. Storer BE, Crowley J. A diagnostic for Cox regression and general conditional likelihoods. *JASA* 80:139-147, 1985.
53. Crowley J. Contribution to Panel Discussion, NCI Symposium on Methodology and Quality Assurance in Cancer Clinical Trials, Session 1: Biometric Issues. *Cancer Treat Rep*, 69:1079-1080, 1985.
54. Green SJ, Crowley J. On robust estimation with arbitrarily right-censored data. *Statistics and Probability Letters* 4:303-308, 1986.
55. Weiss GR, Crowley J, Von Hoff DD, et al. Phase II study of fludarabine phosphate for the treatment of advanced non-small cell carcinoma of the lung: A Southwest Oncology Group study. *Cancer Treat Rep* 70:1123-1124, 1986.
56. Livingston RB, Schulman S, Mira JG, Harker G, Vogel S, Coltman CA, Jr., Rivkin SE, Budd GT, Grever MR, Crowley J. Combined alkylators and multiple-site irradiation for extensive small cell lung cancer: A Southwest Oncology Group study. *Cancer Treat Rep* 70:1395-1401, 1986.
57. Tsai WY, Leurgans S, Crowley J. Nonparametric estimation of a bivariate survival function in the presence of censoring. *Annals of Statistics* 14(4):1351-1365, 1986.
58. Goodwin JW, Crowley J, Tranum B, et al. Phase II trial of spiro-germanium in central nervous system tumors: A Southwest Oncology Group study. *Cancer Treat Rep* 71(1):99-100, 1987.
59. Goodman GE, Yen YP, Cox TC, Crowley J. The effect of verapamil on in vitro cytotoxicity of adriamycin and vinblastine in human tumor cells. *Cancer Research* 47:2295-2304, 1987.
60. Kies MS, Mira JG, Crowley J. Multimodal therapy for limited small-cell lung cancer: A randomized study of induction combination chemotherapy with or without thoracic radiation in complete responders; and with wide-field versus reduced-field radiation in partial responders: A Southwest Oncology Group study. *Journal of Clinical Oncology* 5(4):592-600, 1987.
61. Shields AF, Coonrod DV, Quackenbush RC, Crowley J. Cellular sources of thymidine nucleotides: Studies for PET. *J Nuclear Med* 28:1435-1440, 1987.
62. Lenhard Jr. RE, Enterline JP, Crowley J, Ho GYF. The effects of distance from primary treatment centers on survival among patients with multiple myeloma. *Journal of Clinical Oncology* 5(10):1640-1645, 1987.
63. Stuckey WJ, Crowley JJ, Baker LH, et al. Phase II trial of diaziquone in patients with refractory and relapsing multiple myeloma: A Southwest Oncology Group study. *Cancer Treat Rep* 71(11):1095-1096, 1987.
64. Radosevich CA, Kies MS, Bannon DJ, Mira JG, Crowley J, Livingston RB. Long-term follow-up after induction chemotherapy with or without chest radiation in limited small cell lung cancer (for the Southwest Oncology Group). *Proceedings of the 1987 Adjuvant Therapy Conference*.
65. Early Breast Cancer Trialists' Collaborative Group (Member, Working Party). Effects of adjuvant tamoxifen and of cytotoxic therapy on mortality in early breast cancer. *New Engl J Med* 319(26):1681-1692, 1988.
66. Rainey JM, Hill JB, Crowley J. Evaluation of fludarabine phosphate in small cell carcinoma: A Southwest Oncology Group study. *Invest New Drugs* 6:45-46, 1988.
67. Sause WT, Crowley J, Eyre HJ, et al. Whole brain irradiation and intrathecal methotrexate in the treatment of solid tumor leptomeningeal metastases. *J Neuro Oncol* 6:107-112, 1988.
68. Jones MP, Crowley J. A general class of nonparametric tests for survival analysis. *Biometrics* 45:157-170, 1989.
69. Moinpour CM, Feigl P, Metch B, Hayden KA, Meyskens FL, Jr, Crowley J. Quality of life endpoints in cancer clinical trials: Review and recommendations. *J Natl Cancer Inst* 81(7):485-495, 1989.

70. Cancer and Leukemia Group B, Children's Cancer Study Group, Eastern Cooperative Oncology Group, Southwest Oncology Group (John J. Crowley). A compendium of statistical terms and procedures used in cancer clinical trials. In *Advances in Oncology*. J Anderson, K Propert, eds. Vol. 5, No. 2, pp.7-30, 1989.
71. Livingston RB, McCracken JD, Crowley J. Southwest Oncology Group trial of simultaneous chemotherapy and radiation therapy in limited small cell lung cancer. In *Small cell lung cancer and non-small cell lung cancer*. RJ Gralla and LH Einhorn. eds., Royal Society of Medicine Services International Congress and Symposium Series No. 150, Royal Society of Medicine Services Limited, pp. 43-49, 1989.
72. Goodman GE, Crowley J, Blasko JC, et al. Treatment of limited small-cell lung cancer with etoposide and cisplatin alternating with vincristine, doxorubicin, and cyclophosphamide versus concurrent etoposide, vincristine, doxorubicin, and cyclophosphamide and chest radiotherapy: A Southwest Oncology Group study. *Journal of Clinical Oncology* 8(1):39-47, 1990.
73. Tsai WY, Crowley J. A large sample study of generalized maximum likelihood estimators from incomplete data via self-consistency. *Annals of Statistics* 13:1317-1334, 1985. Correction: *Annals of Statistics* 18:470, 1990.
74. Durie BGM, Stock-Novack D, Salmon SE, Finley P, Beckord J, Crowley J, Coltman CA. Prognostic value of pretreatment serum  $\beta_2$  microglobulin in myeloma: A Southwest Oncology Group study. *Blood* 75(4):823-830, 1990.
75. Karanes C, Crowley J, Sawkar L, et al. Aclacino-mycin A in the treatment of multiple myeloma: A Southwest Oncology Group study. *Invest New Drugs* 8:101-104, 1990.
76. Edelstein MB, Crowley J, Valeriote FA, et al. A phase II study of intravenous 6-thioguanine (NSC-752) in multiple myeloma: A Southwest Oncology Group study. *Invest New Drugs* 8:583-589, 1990.
77. McCracken JD, Janaki LM, Crowley J, et al. Concurrent chemotherapy/radiotherapy for limited small-cell lung carcinoma: A Southwest Oncology Group study. *Journal of Clinical Oncology* 8(5):892-898, 1990.
78. O'Bryan RM, Crowley J, Kim PN, et al. Comparison of etoposide and cisplatin with bis-chloro-ethylnitrosourea, thiotepa, vincristine, and cyclophosphamide for salvage treatment in small cell lung cancer. A Southwest Oncology Group study. *Cancer* 65(4):856-860, 1990.
79. Liu PY, Voelkel J, Crowley J. On the ratio of hazard functions in the presence of a nuisance covariate. *Statistics & Probability Letters* 10:135-140, 1990.
80. Jones MP, Crowley J. Asymptotic properties of a general class of nonparametric tests for survival analysis. *Annals of Statistics* 18:1203-1220, 1990.
81. Salmon SE, Tesh D, Crowley J, et al. Chemotherapy is superior to sequential hemibody irradiation for remission consolidation in multiple myeloma: A Southwest Oncology Group study. *Journal of Clinical Oncology* 8(9):1575-1584, 1990.
82. Albain KS, Crowley J, LeBlanc M, Livingston RB. Determinants of improved outcome in small cell lung cancer: An analysis of the 2,580-patient Southwest Oncology Group data base. *Journal of Clinical Oncology* 8(9):1563-1574, 1990.
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84. Taylor CW, Crowley J, Williamson SK, et al. Treatment of small-cell lung cancer with an alternating chemotherapy regimen given at weekly intervals: A Southwest Oncology Group pilot study. *Journal of Clinical Oncology* 8(11):1811-1817, 1990.
85. Sause WT, Crowley J, Morantz R, et al. Solitary brain metastases: Results of an RTOG/SWOG protocol evaluating surgery +RT versus RT alone. *Am Journal of Clinical Oncology* 13(5):427-432, 1990.
86. Kraut EH, Crowley J, Grever MR, et al. A phase II study of fludarabine phosphate in multiple myeloma: A Southwest Oncology Group study. *Invest New Drugs* 8:199-200, 1990.
87. Gentleman R, Crowley J. Smoothing censored data. *Proceedings of the XVth International Biometric Conference* pp.111-121, 1990.
88. Early Breast Cancer Trialists' Collaborative Group (Member, Working Party). *Treatment of Early Breast Cancer Volume I, Worldwide Evidence 1985-1990*. Oxford University Press, 1990.
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91. Anderson JR, Crowley J, Propert KJ. Interpretation of survival data in clinical trials. *Oncology* 5(2):104-110, 1991.
92. Taylor SA, Crowley J, Vogel FS, et al. Phase II evaluation of fludarabine phosphate in patients with central nervous system tumors. A Southwest Oncology Group trial. *Invest New Drugs* 9:195-197, 1991.
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94. Albain KS, Crowley J, Livingston RB. Long-term survival and toxicity in small cell lung cancer, expanded Southwest Oncology Group experience. *Chest* 99:1425-1432, 1991.
95. Ellis GK, Crowley J, Livingston RB, et al. Cisplating and novobiocin in the treatment of non-small cell lung cancer. *Cancer* 67(12):2969-2973, 1991.
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97. Gentleman R, Crowley J. Graphical methods for censored data. *JASA* 86(515):678-682, 1991.
98. Albain KS, Crowley J, LeBlanc M, Livingston RB. Survival determinants in extensive-stage non-small-cell lung cancer: The Southwest Oncology Group experience. *Journal of Clinical Oncology* 9(9):1618-1626, 1991.
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100. Taylor SA, Crowley J, Pollock TW, et al. Objective anti-tumor activity of Acivin (AT-125) in patients with recurrent CNS malignancies; A Southwest Oncology Group trial. *Journal of Clinical Oncology* 9(8):1476-1479, 1991.
101. Gentleman R, Crowley J. Local full likelihood estimation for the proportional hazards model. *Biometrics* 47:1283-1296, 1991.
102. Durie BGM, Crowley J, Coltman CA, et al. Phase II evaluation of bisantrene in refractory multiple myeloma, A Southwest Oncology Group study. *Invest New Drugs* 9:329-331, 1991.
103. Saeed SM, Stock-Novack D, Pohlod R, Crowley J, Salmon SE. Prognostic correlation of plasma cell acid phosphatase and beta-glucuronidase in multiple myeloma: A Southwest Oncology Group study. *Blood* 78(12):3281-3287, 1991.
104. Hanson KH, Crowley J, Salmon SE, et al. Evaluation of amonafide in refractory and relapsing multiple myeloma: A Southwest Oncology Group study. *Anti-Cancer Drugs* 2:247-250, 1991.
105. Salmon SE, Beckord J, Pugh RP, Barlogie B, Crowley J. Alpha-Interferon for remission maintenance: Preliminary report on the Southwest Oncology Group study. *Seminars in Oncology* 18(5):33-36 Suppl 7, 1991.
106. Early Breast Cancer Trialists' Collaborative Group: Systemic treatment of early breast cancer by hormonal, cytotoxic, or immune therapy; 133 randomised trials involving 31,000 recurrences and 24,000 deaths among 75,000 women. *The Lancet* 339(8784):1-15; 71-85, 1992.
107. Mortimer JE, Crowley J, Eyre H, et al. A phase II randomized study comparing sequential and combined intraarterial cisplatin and radiation therapy in primary brain tumors. *Cancer* 69(5):120-123, 1992.
108. LeBlanc M, Crowley J. Relative risk trees for censored survival data. *Biometrics* 48:411-425, 1992.
109. Goodman PJ, Crowley J, Benson C. Creation of a semiannual report for a multicentre co-operative clinical trials group. *Statis Med* 11:1367-1376, 1992.
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123. Williamson SK, Crowley J, Livingston RB, Weiss G: Phase II trial of 6-thioguanine administered as 120 hour continuous infusion for refractory or recurrent small cell lung cancer. A Southwest Oncology Group study. *Invest New Drugs* 11:81-83, 1993.
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