

PUBLICATIONS

Peer-Reviewed Manuscripts

1. Kinsella TJ. The application of cellular kinetics to the radiobiology of solid tumors. Thesis for Master of Science, Department of Radiation Biology, University of Rochester School of Medicine, 1974.
2. Kinsella TJ, Ahmann DL, Guiliani ER, Lie JT. Adriamycin cardiotoxicity in stage IV breast cancer: possible enhancement with prior left chest radiation therapy. *Int J Rad Oncol Biol Phys* 5:1997-2002, 1979.
3. Kinsella TJ, Bloomer WD. Bowel tolerance to radiation therapy. *Surg Gyn Obstet* 151:273-284, 1980.
4. Kinsella TJ, Bloomer WD, Lavin PT, Knapp RC. Stage II endometrial carcinoma: ten-year follow-up of combined radiation and surgical treatment. *Gynecologic Oncology* 10:290-297, 1980.
5. Kinsella TJ, Malcolm AW, Bothe A, Valerio D, Blackburn GL. A prospective study of nutritional support during pelvic irradiation. *Int J Rad Oncol Biol Phys* 7:543-548, 1981.
6. Lokich J, Kinsella TJ, Perri J, Malcolm A, Clouse M. Concomitant hepatic radiation and intra-arterial fluorinated pyrimidine therapy: correlation of liver scan, liver function tests and plasma CEA with tumor response. *Cancer* 48:2569-2574, 1981.
7. Kinsella TJ, Little JB, Nove J, Weichselbaum RR, Li FP, Mayer RJ, Marchetto D, Patterson WB. Heterogenous response to x-ray and UV light irradiation of cultured skin fibroblasts in two families with Gardner's syndrome. *J Natl Cancer Inst* 68:697-702, 1982.
8. Pretorius HT, Katikieneni M, Kinsella TJ, Barsky S, Brennan MF, Chu E, Robbins J. Thyroid nodules following high dose radiotherapy: fine needle aspiration biopsy in diagnosis and management. *JAMA* 24:3217-3221, 1982.
9. Kinsella TJ, Mitchell JB, McPherson S, Russo A, Tietze F. *In vitro* x-ray sensitivity in ataxia telangiectasia homozygote and heterozygote skin fibroblasts under oxic and hypoxic conditions. *Cancer Research* 42:3950-3956, 1982.
10. Mitchell JB, Russo A, Kinsella TJ, Glatstein E. Glutathione elevation during thermotolerance induction and thermosensitization by glutathione depletion. *Cancer Research* 43:987-991, 1983.
11. Mitchell JB, Kinsella TJ, Russo A, McPherson S, Rowland J, Kornblith PL, Smith B, Glatstein E. Radiosensitization of hematopoietic precursor cells (CFU-C) in glioblastoma patients receiving intermittent intravenous infusions of bromodeoxyuridine (BUdR). *Int J Rad Oncol Biol Phys* 9:457-463, 1983.
12. Carney DN, Mitchell JB, Kinsella TJ. *In vitro* radiation and chemotherapy sensitivity of established cell lines of human small cell lung cancer and its large cell morphologic variants. *Cancer Research* 43:2806-2811, 1983.
13. Kinsella TJ, Triche TJ, Dickman PS, Costa J, Tepper JE, Glaubiger D. Extraskeletal Ewing's sarcoma: results of combined modality treatment. *J Clin Oncol* 1:489-495, 1983. Note: Recent commentary of this article- 25 years later (#101 in editorials section).

Peer-Reviewed Manuscripts (continued)

14. Kinsella TJ, Loeffler JS, Fraass BA, Tepper JE. Extremity preservation by combined modality therapy in sarcomas of the hand and foot: an analysis of local control, disease-free survival and functional result. *Int J Rad Oncol Biol Phys* 9:1115-1119, 1983.
15. Sindelar WF, Kinsella TJ, Tepper JE, Travis EL, Rosenberg SA, Glatstein E. Experimental and clinical studies with intraoperative radiotherapy. *Surgery, Gynecology, Obstetrics* 157:205-219, 1983.
16. Fraass BA, Harrington FS, Kinsella TJ, Sindelar WF. Television system for verification and documentation of treatment fields during intraoperative radiation therapy. *Int J Rad Oncol Biol Phys* 9:1409-1411, 1983.
17. Morstyn G, Hsu S-M, Kinsella T, Gratzner H, Russo A, Mitchell JB. Bromodeoxyuridine in tumors and chromosomes detected with a monoclonal antibody. *J Clin Invest* 72:1844-1850, 1983.
18. Kinsella TJ, Glaubiger D, Diesseroth A, Makuch R, Waller B, Pizzo P, Glatstein E. Intensive combined modality therapy including low-dose TBI in high-risk Ewing's sarcoma patients. *Int J Rad Oncol Biol Phys* 9:1955-1960, 1983.
19. Kinsella TJ, Russo A, Mitchell JB, Rowland J, Jenkins J, Schwade JG, Myers CE, Collins JM, Kornblith P, Smith B, Kufta C, Glatstein E. A Phase I study of intermittent intravenous bromodeoxyuridine (BUdR) and conventional fractionated irradiation. *Int J Rad Oncol Biol Phys* 10:69-76, 1984.
20. Russo A, Gianni L, Kinsella TJ, Klecker RW, Jenkins J, Rowland J, Glatstein E, Mitchell JB, Collins J, Myers C. A pharmacologic evaluation of intravenous delivery of BUdR to patients with brain tumors. *Cancer Res* 44:1702-1705, 1984.
21. Schwade JJ, Kinsella TJ, Rowland J, Johnston M, Glatstein E. Clinical experience with intravenous misonidazole for carcinoma of the esophagus. *Cancer Investigation* 2:91-95, 1984.
22. Kinsella TJ, Mitchell JB, McPherson S, Triche TJ, Miser J, Glatstein E. *In vitro* radiation studies on Ewing's sarcoma cell lines and human bone marrow CFU-C: application to the clinical use of total body irradiation (TBI). *Int J Rad Oncol Biol Phys* 10:1005-1011, 1984.
23. Tester W, Kinsella TJ, Waller B, Makuch R, Kelley PA, Glatstein E, DeVita VT. Second malignant neoplasms complicating Hodgkin's disease: the National Cancer Institute Experience. *J Clin Oncol* 2:762-769, 1984.
24. Mitchell JB, Morstyn G, Russo A, Kinsella TJ, Fornace AJ, McPherson S, Glatstein E. Differing sensitivity to fluorescent light in Chinese hamster cells containing equally incorporated quantities of BUdR versus IUdR. *Int J Rad Oncol Biol Phys* 10:1447-1452, 1984.
25. Morstyn G, Kinsella TJ, Hsu S-M, Russo A, Gratzner H, Mitchell JB. Identification of bromodeoxyuridine in malignant and normal cells following therapy: relationship to complications. *Int J Rad Oncol Biol Phys* 10:1441-1446, 1984.
26. Kinsella TJ, Mitchell JB, Russo A, Morstyn G, Hsu S-M, Rowland J, Glatstein E. Continuous intravenous infusion of bromodeoxyuridine (BUdR) as a clinical radiosensitizer. *J Clin Oncol* 2:1144-1150, 1984.

Peer-Reviewed Manuscripts (continued)

27. Potter DA, Glenn J, Kinsella TJ, Glatstein E, Lack EE, Restrepo C, White DE, Seipp CA, Wesley R, Rosenberg SA. Patterns of recurrence in patients with high-grade soft tissue sarcomas. *J Clin Oncol* 3:353-366, 1985.
28. Glenn J, Kinsella TJ, Glatstein E, Tepper J, Baker A, Sugarbaker P, Sindelar W, Roth J, Brennan M, Costa J, Seipp C, Wesley R, Young RC, Rosenberg S. A randomized prospective trial of adjuvant chemotherapy in adults with soft tissue sarcomas of the head and neck, breast and trunk. *Cancer* 55:1206-1214, 1985.
29. Glenn J, Sindelar WF, Kinsella TJ, Glatstein E, Tepper J, Costa J, Baker A, Sugarbaker P, Brennan MF, Seipp C, Wesley R, Young RC, Rosenberg SA. Results of multimodality therapy of resectable soft-tissue sarcomas of the retroperitoneum. *Surgery* 97:316-325, 1985.
30. Fraass BA, Kinsella TJ, Harrington FS, Glatstein E. Peripheral dose to the testes: the design and clinical use of a practical and effective gonadal shield. *Int J Rad Oncol Biol Phys* 11:609-615, 1985.
31. Louie KG, Behrens BC, Kinsella TJ, Hamilton TC, Grotzinger KR, McCoy WM, Young RC, Ozols RF. Radiation survival parameters of antineoplastic drug-sensitive and resistant human ovarian cancer cell lines and their modification by buthionine sulfoximine. *Cancer Research* 45:2110-2115, 1985.
32. Fraass BA, Miller RW, Kinsella TJ, Sindelar WF, Harrington FS, van de Geijn J, Glatstein E. Intraoperative radiation therapy at the National Cancer Institute: technical innovations and dosimetry. *Int J Rad Oncol Biol Phys* 11:1299-1312, 1985.
33. Tochner ZA, Kinsella TJ, Glatstein E. Hepatic irradiation in the management of metastatic hormone-secreting tumors. *Cancer* 56:20-24, 1985.
34. Morstyn G, Kinsella T, Shan, Chien Song Kao, Whang-Peng J, Russo A, Mitchell JB. *In vivo* incorporation of bromodeoxyuridine into proliferating cells in the marrow and its effects on granulocyte-macrophage progenitor cells. *Experimental Hematology* 13:289-294, 1985.
35. Klecker RW, Jenkins JF, Kinsella TJ, Fine RL, Strong JM, Collins JM. Clinical pharmacology of 5-iodo-2'-deoxyuridine and 5-iodouracil, and endogenous pyrimidine modulation. *Clinical Pharmacology and Therapeutics* 38:45-51, 1985.
36. Shapiro E, Kinsella TJ, Makuch R, Fraass BA, Glatstein E, Rosenberg SA, Sherins RJ. The effects of fractionated irradiation on testicular function. *J Clin Oncol* 3:1232-1239, 1985.
37. Kinsella TJ, Sindelar WF, DeLuca AM, Pezeshkpour G, Smith R, Kranda K, Mixon A, Yeakel K, Miller R. Tolerance of peripheral nerve to intraoperative radiotherapy (IORT): clinical and experimental studies. *Int J Rad Oncol Biol Phys* 11:1579-1585, 1985.
38. Kinsella TJ, Russo A, Mitchell JB, Collins JR, Rowland J, Wright D, Glatstein E. Phase I study of intravenous iododeoxyuridine as a clinical radiosensitizer. *Int J Rad Oncol Biol Phys* 11:1941-1946, 1985.
39. Mitchell JB, Karawya E, Kinsella TJ, Wilson SH. Measurement of DNA polymerase B in skin fibroblast cell lines from patients with ataxia telangiectasia. *Mutation Research* 146:295-300, 1985.
40. Fornace AJ Jr, Kinsella TJ, Dobson P, Mitchell JB. Repair of ionizing radiation DNA base damage in ataxia telangiectasia cells. *Cancer Research* 46:1703-1706, 1986.

Peer-Reviewed Manuscripts (continued)

41. Potter DA, Kinsella TJ, Glatstein E, Wesley R, White DE, Seipp CA, Lack EE, Costa J, Rosenberg SA. High-grade soft tissue sarcomas of the extremities. *Cancer* 58:190-205, 1986.
42. Fornace AJ Jr, Dobson P, Kinsella TJ. Repair of x-ray induced DNA base damage in xeroderma pigmentosum cells. *Radiation Research* 106:73-76, 1986.
43. Fornace AJ Jr, Dobson P, Kinsella TJ. Analysis of the effect of DNA alkylation on alkaline elution. *Carcinogenesis* 7:927-932, 1986.
44. Kinsella TJ, Dobson P, Russo A, Mitchell JB, Fornace AJ Jr. Modulation of x-ray DNA damage by SR-2508 + buthionine sulfoximine. *Int J Rad Oncol Biol Phys* 12:1127-1130, 1986.
45. Kinsella TJ, Dobson P, Mitchell JB. Interaction of iododeoxyuridine (IdUrd) and its primary metabolite, iodouracil (IUra) on radiation response. *Int J Rad Oncol Biol Phys* 12:1519-1522, 1986.
46. Russo A, DeGraff W, Kinsella TJ, Gamson J, Glatstein E, Mitchell JB. Potentiation of chemotherapy cytotoxicity following iododeoxyuridine incorporation of Chinese hamster cells. *Int J Rad Oncol Biol Phys* 12:1371-1374, 1986.
47. Tepper JE, Gunderson LL, Goldson AL, Kinsella TJ, Shipley WH, Sindelar WF, Wood WC, Martin JK. Quality control parameters of intraoperative radiation therapy. *Int J Rad Oncol Biol Phys* 12:1687-1695, 1986.
48. Belanger K, Klecker R, Rowland J, Kinsella TJ, Collins JM. Incorporation of iododeoxyuridine (IdUrd) into cellular DNA in patients receiving continuous intravenous infusions. *Cancer Res* 46:6509-6512, 1986.
49. Sindelar WF, Hoekstra H, Restrepo C, Kinsella TJ. Pathological tissue changes following intraoperative radiotherapy. *Am J Clin Oncol* 9:504-509, 1986.
50. Kinsella TJ, Glatstein E. Clinical experience with intravenous radiosensitizers in unresectable sarcomas. *Cancer* 59:908-915, 1987.
51. Barnes M, Pass H, DeLuca A, Tochner Z, Potter D, Terrill R, Sindelar WF, Kinsella TJ. Response of the mediastinal and thoracic viscera of the dog to intraoperative radiation therapy (IORT). *Int J Rad Oncol Biol Phys* 13:371-378, 1987.
52. Kinsella TJ, Dobson PP, Mitchell JB, Fornace AJ. Enhancement of x-ray induced DNA damage by pretreatment with halogenated pyrimidine analogs. *Int J Rad Oncol Biol Phys* 13:733-739, 1987.
53. Pass HI, Sindelar WF, Kinsella TJ, DeLuca AM, Barnes M, Kurtzman S, Hoekstra H, Tochner Z, Roth J, Glatstein E. Delivery of intraoperative radiation therapy (IORT) after pneumonectomy: experimental observations and early clinical results. *Ann Thor Surg* 44:14-20, 1987.
54. McKenna WG, Barnes M, Kinsella TJ, Rosenberg SA, Lack EE, Glatstein EJ. Combined modality treatment of adult soft tissue sarcomas of the head and neck. *Int J Rad Oncol Biol Phys* 13:1127-1134, 1987.
55. Miller RW, DeGraff W, Kinsella TJ, Mitchell JB. Evaluation of incorporated iododeoxyuridine cellular radiosensitization by photon activation therapy. *Int J Rad Oncol Biol Phys* 13:1193-1198, 1987.

Peer-Reviewed Manuscripts (continued)

56. Miser JS, Kinsella TJ, Triche TJ, Tsokos M, Jarosinski P, Forquer R, Wesley R, Magrath I. Ifosfamide with mesna uroprotection and etoposide: an effective regimen in the treatment of recurrent sarcomas and other tumors of children and young adults. *J Clin Oncol* 5:1191-1198, 1987.
57. Jackson D, Kinsella TJ, Rowland J, Wright D, Katz D, Main D, Collins J, Kornblith P, Glatstein E. Halogenated pyrimidines as radiosensitizers in the treatment of glioblastoma multiforme. *Amer J Clin Oncol* 10:437-443, 1987.
58. Stea B, Kinsella TJ, Triche TJ, Horvath K, Glatstein E, Miser JS. Treatment of pelvic sarcomas in adolescents and young adults with intensive combined modality therapy. *Int J Rad Oncol Biol Phys* 13:1797-1806, 1987.
59. Miser JS, Kinsella TJ, Triche TJ, Steis R, Tsokos M, Wesley R, Horvath K, Belasco J, Longo D, Glatstein E, Israel MA. Treatment of peripheral neuroepithelioma in children and young adults. *J Clin Oncol* 5:1752-1758, 1987.
60. Kinsella TJ, Dobson PP, Fornace AJ Jr, Barrett SF, Ganges MB, Robbins JH. Alzheimer's disease fibroblasts have normal repair of N-methyl-N'-nitro-N-nitrosoguanidine induced DNA damage determined by the alkaline elution technique. *Biochem Biophys Res Comm* 149:355-361, 1987.
61. Kinsella TJ, Miser JS, Triche TJ, Horvath K, Glatstein E. Treatment of "high risk" sarcomas in children and young adults: analysis of local control using intensive combined modality therapy. *NCI Monograph* 6:291-296, 1988.
62. Kinsella TJ, Sindelar WF, Lack E, Glatstein E, Rosenberg SA. Preliminary results of a randomized study of adjuvant radiation therapy in resectable adult retroperitoneal soft tissue sarcomas. *J Clin Oncol* 6:18-25, 1988.
63. Hoekstra HJ, Restrepo C, Kinsella TJ, Sindelar WF. Histopathological effects of intraoperative radiotherapy on pancreas and adjacent tissues: a postmortem analysis. *J Surg Oncol* 37:104-108, 1988.
64. Sindelar WF, Hoekstra HJ, Kinsella TJ. Surgical approaches and techniques in intraoperative radiotherapy for intra-abdominal, retroperitoneal and pelvic neoplasms. *Surgery* 103:247-256, 1988.
65. Kinsella TJ, Sindelar WF, DeLuca AM, Barnes M, Tochner Z, Mixon A, Glatstein E. Tolerance of the canine bladder to intraoperative radiation therapy: an experimental study. *Int J Rad Oncol Biol Phys* 14:939-946, 1988.
66. Miser JS, Kinsella TJ, Triche TJ, Tsokos M, Forquer R, Wesley R, Horvath K, Belasco J, Longo D, Steis R, Glatstein E, Pizzo PA. Preliminary results of treatment of Ewing's sarcoma of bone in children and young adults: six months of intensive combined modality therapy without maintenance. *J Clin Oncol* 6:484-496, 1988.
67. Kinsella TJ, Collins J, Rowland J, Klecker R, Wright D, Katz D, Steinberg SM, Glatstein E. Pharmacology and Phase I/II study of continuous intravenous infusions of iododeoxyuridine (IdUrd) and hyperfractionated radiotherapy in patients with glioblastoma multiforme. *J Clin Oncol* 6:871-879, 1988.
68. Speth PAJ, Kinsella TJ, Belanger K, Klecker RW Jr, Smith R, Rowland J, Collins JM. Fluorodeoxyuridine modulation of the incorporation of iododeoxyuridine into DNA of granulocytes: A Phase I and clinical pharmacological study. *Cancer Res* 48:2933-2937, 1988.

Peer-Reviewed Manuscripts (continued)

69. Sindelar WF, Hoekstra HJ, Kinsella TJ, Barnes M, DeLuca PM, Tochner Z, Pass HI, Kranda KC, Terrill RE. Response of the canine esophagus to intraoperative electron beam radiotherapy. *Int J Radiat Oncol Biol Phys* 15:663-670, 1988.
70. Hoekstra HJ, Sindelar WF, Kinsella TJ. Surgery with intraoperative radiotherapy for sarcomas of the pelvic girdle. *Int J Rad Oncol Biol Phys* 15:1013-1016, 1988.
71. Chang AE, Kinsella TJ, Glatstein E, Baker AR, Sindelar WF, Lotze MT, Danforth DN, Sugarbaker PH, Lack EE, Steinberg SM, White DE, Rosenberg SA. Adjuvant chemotherapy for patients with high grade soft tissue sarcomas of the extremity. *J Clin Oncol* 6:1491-1500, 1988.
72. Stea B, Cavazzana A, Kinsella TJ. Small cell osteosarcoma: correlation of *in vitro* and clinical radiation response. *Int J Radiat Oncol Biol Phys* 15:1233-1238, 1988.
73. Speth PAJ, Kinsella TJ, Chang AE, Klecker RW, Belanger K, Collins JM. Selective incorporation of iododeoxyuridine into DNA of hepatic metastases versus normal human liver. *Clin Pharmacol Therapeutics* 44:369-375, 1988.
74. Young MM, Kinsella TJ, Miser JS, Triche TJ, Steinberg SM, Glatstein E. Treatment of sarcomas of the chest wall using intensive combined modality therapy. *Int J Radiat Oncol Biol Phys* 16:49-57 1989.
75. Speth PA, Kinsella TJ, Chang AE, Klecker K, Cupp JE, Collins JM. Iododeoxyuridine (IdUrd) incorporation into DNA of human hematopoietic cells, normal liver and hepatic metastases in man as a radiosensitizer and as a marker for cell kinetic studies. *Int J Radiat Oncol Biol Phys* 16:1247-1250, 1989.
76. Mehta MP, Goetowski PG, Kinsella TJ. Radiation-induced thyroid neoplasms, 1920-1987, a vanishing problem. *Int J Radiat Oncol Biol Phys* 16:1471-1475, 1989.
77. Kinsella TJ, Trivette G, Rowland J, Sorace R, Miller R, Fraass B, Steinberg SM, Glatstein E, Sherins RJ. Long term follow-up of testicular function following radiation therapy for early stage Hodgkin's disease. *J Clin Oncol* 6:718-724, 1989.
78. Chang AE, Collins JM, Speth PAJ, Smith R, Walton L, Begley MG, Glatstein E., Kinsella TJ. A Phase I study of intra-arterial iododeoxyuridine in patients with colorectal liver metastases. *J Clin Oncol* 7:662-668, 1989.
79. Tochner Z, Kinsella TJ, Rowland J, Glatstein E. Treatment of unresectable sarcomas of adults with hyperfractionated irradiation and iododeoxyuridine. *British I of Radiology* 19:107-111, 1989.
80. Hoekstra HJ, Sindelar WF, Kinsella TJ, Mehta DM. Intraoperative radiation therapy-induced sarcomas in dogs. *Radiation Res* 120:508-515, 1989.
81. Cromack DT, Maher MM, Hoekstra H, Kinsella TJ, Sindelar WF. Are complications in intraoperative radiation therapy more frequent than in conventional treatment? *Arch Surg* 124:229-234, 1989.
82. Lack EE, Steinberg SM, White DE, Kinsella TJ, Glatstein E, Chang AE, Rosenberg SA. Extremity soft tissue sarcomas: analysis of prognostic variables with emphasis on reproducibility of tumor typing and grading. *J Surg Oncol* 41:263-273, 1989.

Peer-Reviewed Manuscripts (continued)

83. Mehta MP, Shahabi S, Jarjour NN, Kinsella TJ. Endobronchial irradiation for malignant airway obstruction. *Int J Radiat Oncol Biol Phys* 17:847-851, 1989.
84. Bader JL, Horowitz ME, Dewan R, Watkins E, Triche TJ, Tsokos M, Kinsella TJ, Miser JS, Steinberg SM, Glatstein E. Intensive combined modality therapy of small round cell and undifferentiated sarcomas in children and young adults: Local control and patterns of failure. *Radiotherapy and Oncology* 16:189-201, 1989.
85. Oldfield EH, Friedman R, Kinsella TJ, Moquin R, Yeakle K, DeLuca AM. Reduction in radiation-induced brain injury by use of pentobarbital or lidocaine protection. *J Neurosurgery* 72:737-744, 1990.
86. Fornace AJ, Dobson PP, Kinsella TJ. Enhancement of radiation damage in cellular DNA following unifilar substitution with iododeoxyuridine. *Int J Radiat Oncol Biol Phys* 18:873-878, 1990.
87. Kunugi KA, Vazquez-Padua MA, Miller EM, Kinsella TJ. Modulation of IdUrd-DNA incorporation and radiosensitization in human bladder carcinoma cells. *Cancer Research* 50:4962-4967, 1990.
88. Shanahan TG, Mehta MP, Bertelrud KL, Buchler DA, Frank LE, Gehring MA, Kubsad SS, Utrie PC, Kinsella TJ. Minimization of small bowel volume within treatment fields utilizing customized "belly boards". *Int J Radiat Oncol Biol Phys* 19:469-476, 1990.
89. Mehta M, Shahabi S, Thomadsen B, Uehling D, Kinsella TJ. A three-dimensional model for treatment planning of interstitial implants. *Endocurie, Hypertherm, Oncol* 5:227-230, 1990.
90. Mehta MP, Kubsad SS, Fowler JF, Verma AK, Hsieh J-T, Kinsella TJ. ⁹⁰Y-B72.3 against pancreatic cancer: Therapeutic, dosimetric and biological analyses. *Int J Radiat Oncol Biol Phys* 19:627-632, 1990.
91. Barnes M, Duray P, DeLuca A, Anderson W, Sindelar W, Kinsella T. Tumor induction following intraoperative radiotherapy: Late results of the National Cancer Institute canine trials. *Int J Radiat Oncol Biol Phys* 19:651-660, 1990.
92. Kubsad SS, Mackie TR, Gehring MA, Misco DJ, Paliwal BR, Mehta MP, Kinsella TJ. Monte Carlo and convolution dosimetry for stereotactic radiosurgery. *Int J Radiat Oncol Biol Phys* 19:1027-1035, 1990.
93. Hartman KR, Triche TJ, Kinsella TJ, Miser JS. Prognostic value of histopathology in Ewing's sarcoma: Long-term follow-up of distal extremity primary tumors. *Cancer* 76:163-171, 1990.
94. Kinsella TJ, Miser JA, Waller B, Venzon D, Glatstein E, Weaver-McClure L, Horowitz ME. Long term follow-up of Ewing's sarcoma of bone treated with combined modality therapy. *Int J Radiat Oncol Biol Phys* 20:389-395, 1991.
95. Kinsella TJ, DeLuca AM, Barnes M, Anderson W, Terrill R, Sindelar WF. Threshold dose for peripheral nerve injury following intraoperative radiotherapy (IORT) in a large animal model. *Int J Radiat Oncol Biol Phys* 20:697-701, 1991.
96. Rozental JM, Levine RL, Mehta MP, Kinsella TJ, Levin AB, Algan O, Mendoza M, Hanson JM, Schrader DA, Nickles RJ. Early changes in tumor metabolism after treatment: The effects of stereotactic radiotherapy. *Int J Radiat Oncol Biol Phys* 20:1053-1060, 1991.

Peer-Reviewed Manuscripts (continued)

97. Gehring MA, Mackie TR, Kubsad SS, Paliwal BR, Mehta MM, Kinsella TJ. A three dimensional volume visualization package applied to stereotactic radiosurgery treatment planning. *Int J Radiat Oncol Biol Phys* 21:491-500, 1991.
98. Rodriguez R, Miller E, Fowler JF, Kinsella TJ. Continuous infusion of halogenated pyrimidines. *Int J Radiat Oncol Biol Phys* 20:1380-1381, 1991.
99. Tochner ZA, Pass HI, Sindelar WF, DeLuca AM, Grisell DL, Bacher JD, Kinsella TJ. Long term tolerance of thoracic organs to intraoperative radiotherapy. *Int J Radiat Oncol Biol Phys* 22:65-69, 1991.
100. Miller EM, Kinsella TJ. Radiosensitization by fluorodeoxyuridine: Effects of thymidylate synthase inhibition and cell synchronization. *Cancer Res* 52:1687-1694, 1992.
101. Tsokos M, Webber B, Parham D, Wesley R, Miser A, Miser JS, Etcubanas E, Kinsella T, Grayson J, Glatstein E, Triche TJ. Rhabdomyosarcoma: A new classification scheme related to prognosis. *Archives Pathology and Laboratory Medicine* 116:847-855, 1992.
102. Ritter MA, Messing EM, Shanahan TG, Chappell RJ, Kinsella TJ. Prostate-specific antigen (PSA) as a predictor of radiotherapy response and of patterns of failure in localized prostate cancer. *J Clin Oncology* 10:1208-1217, 1992.
103. Mehta M, Petereit D, Harmon M, Fowler J, Shahabi S, Thomadsen B, Kinsella T. Sequential comparison of low dose rate and hyperfractionated high dose rate endobronchial radiation for malignant airway occlusion. *Int J Radiat Oncol Biol Phys* 23:133-139, 1992.
104. Miller EM, Fowler JF, Kinsella TJ. Linear quadratic analysis of radiosensitization by halogenated pyrimidines: I. Radiosensitization of human colon cancer cells by IUdR. *Radiation Res* 131:81-89, 1992.
105. Miller EM, Fowler JF, Kinsella TJ. Linear quadratic analysis of radiosensitization by halogenated pyrimidines: II. Radiosensitization of human colon cancer cells by BUdR. *Radiation Res* 131:90-97, 1992.
106. Ritter MA, Fowler JF, Kim Y, Lindstrom MJ, Kinsella TJ. Single biopsy, tumor kinetic analyses: A comparison of methods and an extension to shorter sampling intervals. *Int J Radiat Oncol Biol Phys* 23:811-820, 1992.
107. Stitt JA, Fowler JF, Thomadsen BR, Buchler DA, Paliwal BP, Kinsella TJ. High dose rate intracavitary brachytherapy for carcinoma of the cervix: The Madison system. I. Clinical and radiobiological considerations. *Int J Radiat Oncol Biol Phys* 24:335-348, 1992.
108. Thomadsen BR, Stitt JA, Fowler JF, Buchler DA, Paliwal BP, Kinsella TJ. High dose rate intracavitary brachytherapy for carcinoma of the cervix: The Madison system. II. Procedural and physical considerations. *Int J Radiat Oncol Biol Phys* 24:349-358, 1992.
109. Kunugi KA, Miller EM, Vazquez-Padua MA, Kinsella TJ. Low pH does not affect the dose-response for 5'-amino-5'-deoxythymidine modulation of IdUrd DNA-incorporation and radiosensitization in a human bladder cancer cell line. *Radiation Res* 132:222-227, 1992.
110. Mehta MP, Rozental JM, Levin AV, Mackie TR, Kubsad SS, Gehring MA, Kinsella TJ: Defining the role of radiosurgery in the management of brain metastases. *Int J Radiat Oncol Biol Phys* 24:619-625, 1992.

Peer-Reviewed Manuscripts (continued)

111. McGinn CJ, Stitt JA, Buchler DA, Kinsella TJ. Intraoperative ultrasound guidance during high dose rate intracavitary brachytherapy of the uterine cervix and corpus. *Endo/Hyper Onc* 8:101-104, 1992.
112. Petereit DG, Mehta MP, Buchler DA, Kinsella TJ. A retrospective review of nodal treatment for vulvar cancer. *Am. J Clinical Oncology* 16:38-42, 1993.
113. Sindelar WF, Kinsella TJ, Tepper JE, DeLaney TF, Maher MM, Smith R, Rosenberg SA, Glatstein E. Randomized trial of intraoperative radiotherapy in carcinoma of the stomach. *Amer J Surgery* 165:178-187, 1993.
114. Petereit D, Mehta M, Turski P, Levin A, Strother C, Mistretta C, Mackie TR, Gehring M, Kubsad S, Kinsella T. Treatment of arteriovenous malformations with stereotactic radiosurgery employing both magnetic resonance angiography and standard angiography as a database. *Int J Radiat Oncol Biol Phy* 25:309-313, 1993.
115. Sindelar WF, Kinsella TJ, Chen PW, Delaney TF, Tepper JE, Rosenberg SA, Glatstein E. Intraoperative radiotherapy in retroperitoneal sarcomas: Final results of a prospectively randomized clinical trial. *Arch Surg* 128:402-410, 1993.
116. Mehta M, Petereit D, Turski P, Gehring M, Levin A, Kinsella T. Magnetic resonance angiography: A three-dimensional database for assessing arteriovenous malformations. *J Neurosurgery* 79:289-293, 1993.
117. Bastin K, Buchler D, Stitt J, Shanahan T, Pola Y, Paliwal B, Kinsella T. Resource utilization: High dose rate versus low dose rate brachytherapy for gynecologic cancer. *Am J Clin Oncol* 16:256-263, 1993.
118. Bastin KT, Mehta MP, Kinsella TJ. Thoracic volume radiation sparing following endobronchial brachytherapy. *Int J Radiat Oncol Biol Phys* 25:703-707, 1993.
119. Harari PM, Contreras L, Pickart MA, Ritter MA, Kinsella TJ. Modulation of proliferation kinetics in human squamous cell carcinomas of the head and neck. *Arch Otolaryngology Head and Neck Surgery* 119:738-742, 1993.
120. Mackie TR, Holmes T, Swerdloft S, Reckwerdt P, Paliwal B, Kinsella T. Tomotherapy: A new concept for delivery of conformal radiotherapy using dynamic compensation. *Medical Physics* 20:1709-1719, 1993.
121. Horowitz ME, Kinsella TJ, Wexler LH, Belasco J, Triche T, Tsokos M, Steinberg SM, McClure L, Glatstein E, Pizzo PA, Miser JE. Total body irradiation and autologous bone marrow transplant in the treatment of high risk Ewing's sarcoma and rhabdomyosarcoma. *J Clinical Oncology* 11:1911-1918, 1993.
122. Urtasun RC, Cosmatos D, DelRowe J, Kinsella TJ, Lester S, Wasserman T, Allalunis-Turner J, Fulton D: Iododeoxyuridine (IUdR) combined with radiation in the treatment of malignant gliomas. A comparison of short versus long intravenous dose schedules (RTOG 86-12). *Int J Radiat Oncol Biol Phys* 27:207-214, 1993.
123. Kunugi KA, Lindstrom MJ, Kinsella TJ: Effects of bleomycin with iododeoxyuridine, 5'-amino-5'-deoxythymidine and radiation in a human bladder cancer cell line. *Radiat Res* 135:262-268, 1993.
124. Lindstrom MJ, Kunugi K, Kinsella TJ. Global comparison of radiation and chemotherapy dose response curves with a test for interaction. *Radiat Res* 135:269-277, 1993.

Peer-Reviewed Manuscripts (continued)

125. McGinn CJ, Harari PM, Fowler JF, Ford CN, Pyle GM, Kinsella TJ. Dose intensification in curative head and neck cancer: radiotherapy-radiobiological principles and preliminary clinical results. *Int J Radiat Oncol Biol Phys* 27:363-370, 1993.
126. Petereit DG, Mehta MP, Buchler DA, Kinsella TJ. Inguinofemoral radiation of N₀, N₁, vulvar cancer may be equivalent to lymphadenectomy if proper radiation technique is used. *Int J Radiat Oncol Biol Phys* 27:963-967, 1993.
127. Holmes M, Mackie TR, Sohn W, Reckwerdt PJ, Kinsella TJ, Bielajew AF, Rogers DWO. The application of correlated sampling to the computation of electron beam dose distributions in heterogeneous phantoms using the Monte Carlo method. *Phys Med Biol* 38:675-688, 1993.
128. Petereit DG, Harari PM, Contreras L, Pickart MA, Verma AK, Gerner EW, Kinsella TJ. Combining polyamine depletion with radiation therapy for rapidly dividing head and neck tumors: strategies for improved locoregional control. *Int J Radiat Oncol Biol Phys* 28:891-898, 1994.
129. Rodriguez R, Ritter MA, Fowler JF, Kinsella TJ. Kinetics of cell labeling and thymidine replacement after continuous infusion of halogenated pyrimidines *in vivo*. *Int J Radiat Oncol Biol Phys* 29:105-113, 1994.
130. Ritter MA, Fowler JF, Kim Y, Gilchrist KW, Morrissey LW, Kinsella TJ. Tumor cell kinetics using two labels and flow cytometry. *Cytometry* 16:49-58, 1994.
131. Kinsella TJ, Kunugi KA, Vielhuber K, McCulloch W, Liu S-H, Cheng Y-C. *In Vivo* comparison of oral 5-Iodo-2'-deoxyuridine and 5-Iodo-2-pyrimidinone-2'-deoxyribose toxicity, pharmacokinetics, and DNA incorporation in athymic mouse tissues and a human colon cancer xenograft (HCT-116). *Cancer Res* 54:2695-2700, 1994.
132. Chi K-H, Kunugi KA, Kinsella TJ. Iododeoxyuridine Chemosensitization of cis-Diamminedichloroplatinum (II) in Human Bladder Cancer Cells. *Cancer Res* 54:2701-2706, 1994.
133. Ritter MA, Albrechtson JL, Kim YJ, Kinsella TJ. Tumor cell kinetics in mixed populations. *Cytometry* 16:118-128, 1994.
134. Sindelar WF, Tepper JE, Kinsella TJ, Barnes M, DeLuca AM, Terrill R, Matthews D, Anderson WJ, Bollinger BK, Johnstone PAS. Late effects of intraoperative radiation therapy on retroperitoneal tissues, intestine and bile duct in a large animal model. *Int J Radiat Oncol Biol Phys* 29:781-788, 1994.
135. Johnstone PAS, Sprague M, DeLuca AM, Bacher JD, Hampshire VA, Terill RE, Kinsella TJ, Sindelar WF. Tolerance of vascular grafts to intraoperative radiotherapy in a canine model. *Int J Radiat Oncol Biol Phys* 29:1015-1025, 1994.
136. Sarkaria JN, Petereit DG, Stitt JA, Hartman T, Chappell R, Thomadsen BR, Buchler DA, Fowler JF, Kinsella TJ. A comparison of the efficacy and complication rates of low-dose-rate (LDR) vs. high-dose-rate (HDR) brachytherapy in the treatment of uterine cervical carcinoma. *Int J Radiat Oncol Biol Phys* 30:75-82, 1994.
137. DeLuca AM, Johnstone PAS, Ollayos CW, Bacher JD, Terrill RE, Kinsella TJ, Sindelar WF. Tolerance of the bladder to intraoperative radiation in a canine model: A five-year follow-up. *Int J Radiat Oncol Biol Phys* 30:339-345, 1994.

Peer-Reviewed Manuscripts (continued)

138. Mehta MP, Masciopinto J, Rozental JM, Levin AB, Chappell R, Bastin KT, Miles J, Turski P, Kubsad SS, Mackie TR, Kinsella TJ. Stereotactic radiosurgery for glioblastoma multiforme: Report of a prospective study evaluating prognostic factors and analyzing long-term survival advantage. *Int J Radiat Oncol Biol Phys* 30:541-550, 1994.
139. Auchter RM, Mehta MP, Peters NE, Kitchen R, Thomadsen BR, Kinsella TJ. An original technique for surface mold high dose rate brachytherapy for Kaposi's sarcoma. *Endocurietherapy/Hyperthermia Oncology* 10:193-198, 1994.
140. Sullivan FJ, Herscher LL, Cook JA, Smith J, Steinberg SM, Epstein AA, Mitchell JB, Kinsella TJ, Glatstein E. National Cancer Institute (Phase II) study of high grade glioma treated with partial brain hyperfractionated radiation and iododeoxyuridine: results in anaplastic astrocytoma. *Int J Radiat Oncol Biol Phys* 30:583-590, 1994.
141. McGinn CJ, Miller EM, Lindstrom MJ, Kunugi KA, Johnston PG, Kinsella TJ. The role of cell cycle redistribution in radiosensitization: implications regarding the mechanism of fluorodeoxyuridine radiosensitization. *Int J Radiat Oncol Biol Phys* 30:851-859, 1994.
142. Steeves RA, Stitt JA, Chappell R, Wolberg WH, Kinsella TJ. A simple numerical system for scoring the cosmetic effects of radiation and surgery following conservation therapy for breast cancer. *Radiat Oncol Invest* 2:194-198, 1994.
143. Noyes WR, Peters NE, Thomadsen BR, Fowler JF, Buchler DA, Stitt JA, Kinsella TJ. Impact of "optimized" treatment planning for tandem and ring and tandem and ovoids using high dose rate brachytherapy for cervical cancer. *Int J Radiat Oncol Biol Phys* 31:79-86, 1995.
144. Harari PM, O'Connor NJ, Fiore MC, Kinsella TJ. Radiation oncologists can assist head and neck cancer patients with smoking cessation. *Int J Radiat Oncol Biol Phys* 31:645-649, 1995.
145. Miller EM, Kunugi KA, Kinsella TJ. Effects of 5'-aminothymidine and leucovorin on the radiosensitization by iododeoxyuridine in human colon cancer cells. *Clin Cancer Res* 1:407-416, 1995.
146. Terrier P, Henry-Amar M, Triche TJ, Horowitz ME, Terrier-Lacombe MJ, Miser JS, Kinsella TJ, Contesso G, Llombart-Bosch A. Is neuroectodermal differentiation of Ewing's Sarcoma of bone associated with an unfavorable prognosis? A European and American joint study. *Eur J Cancer* 31A:307-315, 1995.
147. Pestalozzi BC, McGinn CJ, Kinsella TJ, Drake JC, Glennon MC, Allegra CJ, Johnston PG. Increased thymidylate synthase protein levels are principally associated with proliferation but not cell cycle phase in asynchronous human cancer cells. *Brit J Cancer* 71:1151-1157, 1995.
148. Kuo M-L, Kunugi KA, Lindstrom MJ, Kinsella TJ. The interaction of hydroxyurea and iododeoxyuridine on the radiosensitivity of human bladder cancer cells. *Cancer Res* 55:2800-2805, 1995.
149. Schultz CJ, Gaffney DK, Lindstrom M, Kinsella TJ. Iododeoxyuridine radiosensitization of human glioblastoma cells exposed to acute and chronic gamma irradiation: Mechanistic implications and clinical relevance. *The Cancer Journal from Scientific American* 1:151-161, 1995.

Peer-Reviewed Manuscripts (continued)

150. Sarkaria JN, Mehta MP, Loeffler JS, Buatti JM, Chappell RJ, Levin AB, Alexander E, Friedman WA, Kinsella TJ. Radiosurgery in the initial management of malignant gliomas: survival comparison with the RTOG recursive partitioning analysis. *Int J Radiat Oncol Biol Phys* 32:931-942, 1995.
151. Johnstone PAS, DeLuca AM, Bacher JD, Hampshire VA, Terrill RE, Anderson WJ, Kinsella TJ, Sindelar WF. Clinical toxicity of peripheral nerve to intraoperative radiotherapy in a canine model. *Int J Radiat Oncol Biol Phys* 32:1031-1034, 1995.
152. Noyes WR, Bastin K, Buchler DA, Stitt JA, Thomadsen BR, Fowler JF, Kinsella TJ. Post-operative vaginal cuff radiation using high dose rate afterloading: A phase II clinical protocol. *Int J Radiat Oncol Biol Phys* 32:1439-1444, 1995.
153. Petereit DG, Sarkaria JN, Chappell R, Fowler JF, Hartmann TJ, Kinsella TJ, Stitt JA, Thomadsen BR, Buchler DA. The adverse effect of treatment prolongation in cervical carcinoma. *Int J Radiat Oncol Biol Phys* 32:1301-1308, 1995.
154. Hoekstra HJ, Sindelar WF, Szabu BG, Kinsella TJ. Hemipelvectomy and intraoperative radiotherapy for bone and soft tissue sarcomas of the pelvic girdle. *Radiother Oncol* 37:160-163, 1995.
155. Petereit DG, Edwards SA, Thomadsen B, Fowler J, Buchler D, Stitt JA, Kinsella TJ. Standardized treatment planning for high dose rate brachytherapy to the vaginal cuff. *Radiat Oncol Invest* 3:196-203, 1995.
156. Johnstone PA, Laskin WB, DeLuca AM, Barnes M, Kinsella TJ, Sindelar WF. Tumors in animals exposed to experimental intraoperative radiotherapy. *Int J Radiat Oncol Biol Phys* 34:853-858, 1996.
157. Noyes W, Rodriguez R, Knechtle SJ, Pirsch JD, Sollinger HW, D'alessandro AM, Chappell R, Belzer FO, Kinsella TJ. Radiation therapy for renal transplant rejection refractory to pulse steroids and OKT3. *Int J Radiat Oncol Biol Phys* 34:1055-1059, 1996.
158. Noyes WR, Mulcahy RT, Craig B, Kinsella TJ. The effect of a pure anti-estrogen agent (ICI 182,780) on *in vitro* radiosensitivity of MCF-7 breast carcinoma cells. *Rad Onc Investigations* 3:232-237, 1996.
159. Auchter RM, Lamond JP, Alexander E, Buatti JM, Chappell R, Friedman WA, Kinsella TJ, Levin AB, Noyes WR, Schultz CJ, Loeffler JS, Mehta MP. A multi-institutional outcome and prognostic factor analysis of radiosurgery for resectable single brain metastasis. *Int J Radiat Oncol Biol Phys* 35:27-35, 1996.
160. Kinsella TJ, Glennon MC, Kunugi KA, Lindstrom MJ. *In vivo* modulation of 5-iododeoxyuridine metabolism and incorporation into cellular DNA by 5'-amino-5'-deoxythymidine in normal mouse tissues and two human colon cancer xenografts. *Clin Cancer Res* 2:981-989, 1996.
161. Fowler JF, Kinsella TJ. The limiting radiosensitization of tumors by S-phase sensitizers. *Brit J Cancer* 74 (Suppl XXVII): S294-S296, 1996.
162. McGinn CJ, Kunugi KA, Tutsch KD, Feierabend C, Alberti D, Lindstrom MJ, Wilding G, Arzoomanian RZ, Kinsella TJ. Leucovorin modulation of iododeoxyuridine radiosensitization: A phase I study. *Clin Can Res* 2:1299-1305, 1996.

Peer-Reviewed Manuscripts (continued)

163. Lamond JP, Wang M, Kinsella TJ, Boothman DA. Concentration and timing dependence of lethality enhancement between topotecan, a topoisomerase I inhibitor, and ionizing radiation. *Int J Radiat Oncol Biol Phys* 36:361-368, 1996.
164. Lamond JP, Wang M, Kinsella TJ, Boothman DA. Radiation lethality enhancement with 9-aminocamptothecin: comparison to other topoisomerase I inhibitors. *Int J Radiat Oncol Biol Phys* 36:369-376, 1996.
165. Sharda NN, Kinsella TJ, Ritter MA. Adjuvant radiation vs. observation: A cost analysis of alternative management schemes in early stage testicular seminoma. *J Clin Oncol* 14:2933-2939, 1996.
166. Urtasun RC, Kinsella TJ, DelRowe J, Farnan N, Lester S, Fulton DS. Survival improvement in anaplastic astrocytoma combining external radiation with halogenated pyrimidines. Final report of RTOG 86-12, Phase I-II study. *Int J Radiat Oncol Biol Phys* 36:1163-1168, 1996.
167. Kuo M-L, Kinsella TJ. Overexpression of a hexa-histidine and T7 peptide-tagged human ribonucleotide reductase small subunit, R₂, in *Escherichia coli* and the generation of human R₂ antibodies. *Int. J. of Oncology* 10:515-520, 1997.
168. Kuo M-L, Kunugi KA, Lindstrom MJ, Kinsella TJ. The interaction of hydroxyurea and ionizing radiation in human cervical carcinoma cells. *The Cancer Journal from Scientific American* 3:163-173, 1997.
169. Tannehill SP, Mehta MP, Larson M, Storer B, Pellet J, Kinsella TJ, Schiller J. Effect of amifostine on toxicities associated with sequential chemotherapy and radiation therapy for unresectable non-small cell lung cancer: Results of a Phase II trial. *J Clin Oncol* 15:2850-2857, 1997.
170. Mehta M, Noyes W, Craig B, Lamond J, Auchter R, French M, Johnson M, Levin A, Badie B, Robins I, Kinsella T. A cost-effectiveness and cost-utility analysis of radiosurgery versus resection for single brain metastases. *Int. J. Radiat. Oncol Biol Phys* 39:445-454, 1997.
171. Boothman DA, Burrows H, Yang C-R, Davis TW, Wuerzberger SM, Planchon SM, Odegaard E, Lewis JE, Pink J, Meyers M, VanPatten C, Sharda N, Kinsella TJ. Damage sensing mechanisms in human cells after ionizing radiation. *Stem Cells* 15: 27-42, 1997.
172. Kinsella TJ, Kunugi KA, Vielhuber KA, Fowler J, Fitzsimmons M, Collins JM. Preclinical evaluation of 5-iodo-2'-pyrimidinone-2'-deoxyribose (IPdR) as a prodrug for IUdR-mediated tumor radiosensitization in mouse and human tissues. *Clin Cancer Res* 4:99-109, 1998.
173. Davis TW, Wilson-Van Patten C, Meyers M, Kunugi KA, Cuthill S, Reznikoff C, Garces C, Boland CR, Kinsella TJ, Fishel R, Boothman DA. Defective expression of the DNA mismatch repair protein, hMLH1, alters G₂/M cell cycle checkpoint arrest following ionizing radiation. *Cancer Res* 58: 767-778, 1998.
174. Kuo M-L, Kinsella TJ. Expression of ribonucleotide reductase following ionizing radiation in human cervical carcinoma cells. *Cancer Res* 58: 2245-2252, 1998.
175. Forrest LJ, Mahler PA, Vail DM, Mackie TR, Ladd WM, Kinsella TJ. Computed tomographic evaluation of radiation pneumonitis in a canine model. *Radiat Oncol Invest* 6:128-134, 1998.

Peer-Reviewed Manuscripts (continued)

176. Bullen R, Larson PO, Landeck AE, Nychay S, Snow SN, Hazen P, Kinsella TJ, Lamond J. Angiosarcoma of the head and neck managed by a combination of multiple biopsies to determine tumor margin and radiation therapy. *Dermatologic Surgery* 24: 1105-1110, 1998.
177. Paliwal BR, Ritter MA, McNutt TR, Mackie TR, Thomadsen BR, Purdy JA, Kinsella, TJ. A solid water pelvic and prostate phantom for imaging, volume rendering, treatment planning and dosimetry for an RTOG multi-institutional, 3-D dose escalation study. *Int J Radiat Oncol Bio Phys* 42: 205-211, 1998.
178. Berry S, Garces CA, Hwang H-S, Kunugi K, Myers M, Davis TW, Boothman DA, Kinsella TJ. The mismatch repair protein hMLH1, mediates 5-substituted halogenated thymidine analog cytotoxicity, DNA incorporation, and radiosensitization in human colon cancer cells. *Cancer Res* 59: 1840-1845, 1999.
179. Yang C-R, Yeh S, Leskov K, Odegaard E, Hsu H-L, Chang C, Kinsella TJ, Chen DJ, Boothman DA. Isolation of Ku70 - Binding Proteins (KUB's). *Nucleic Acids Research* 27: 2165-2174, 1999.
180. Mineishi S, Longo WL, Atkinson ME, Smith EP, Hamielec M, Wiersma SR, Kinsella TJ, Schuening FG. Addition of high-dose Ara-C to the BMT conditioning regimen reduced leukemia relapse without an increase in toxicity. *Bone Marrow Transplantation* 23:1217-1222, 1999.
181. Hwang H-S, Davis TW, Houghton JA, Kinsella TJ. Radiosensitivity of thymidylate synthase deficient human colon cancer cells is affected by progression through the G₁ restriction point into S-phase: implications for fluoropyrimidine radiosensitization. *Cancer Res* 60:92-100, 2000.
182. Kinsella TJ, Vielhuber KA, Kunugi KA, Schupp J, Davis TW, Sands H. Pre-clinical toxicity, pharmacology and efficacy study of a 14-day schedule of oral 5-iodo-2-pyrimidinone-2'-deoxyribose (IPdR) as a prodrug for IUDR-radiosensitization in U251 human glioblastoma xenografts. *Clin Cancer Research* 6:1468-1475, 2000.
183. Yang C-R, Leskov K, Hosley-Eberlein K, Criswell T, Pink JJ, Kinsella TJ, Boothman DA. Nuclear Clusterin/XIP8, an x-ray inducible Ku70-binding protein that signals cell death. *Proc Natl Acad Sci., USA*, 97:5907-5912, 2000.
184. Ellis R, Wu J, Sajja R, Murphy C, Rustgi S, Mackay W, Resnick M, Kinsella TJ. Comparison of a 3D treatment planning computer-based vs. nomogram-based implant technique for prostate carcinoma. *J of Brachytherapy* 16:55-61, 2000.
185. McGinn CJ, Pestalozzi BC, Drake JC, Glennon MC, Kunugi K, Otterson G, Allegra CJ, Johnston PG, Kinsella TJ. Cell cycle regulation of the G₀/G₁ transition in 5-Fluorouracil-sensitive and resistant human colon cancer cell lines. *The Cancer Journal from Scientific America* 6:334-342, 2000.
186. Kinsella TJ, Schupp JE, Davis TW, Berry SE, Hwang H-S, Warren K, Balis F, Barnett J, Sands H. Pre-clinical studies of the systemic toxicity and pharmacokinetics of 5-Iodo-2-deoxyuridine-2'-deoxyribose (IPdR) as a radiosensitizing prodrug in two, non-rodent animal species: Implications for Phase I study design. *Clin Cancer Res* 6:3670-3679, 2000.
187. Berry SE, Davis TW, Schupp JE, deWind N, Kinsella TJ. Selective radiosensitization of drug-resistant, MSH2 mismatch repair-deficient cells by the halogenated thymidine (TdR) analogs; MSH2 mediates TdR analog DNA levels and the differential cytotoxicity and cell cycle effects of TdR analogs and 6-TG. *Cancer Res* 60:5773-5780, 2000.

Peer-Reviewed Manuscripts (continued)

188. Ellis RJ, Sodee DB, Spirnak JP, Dinchman KH, O'Leary AW, Samuels MA, Resnick MI, Kinsella TJ. Feasibility and acute toxicities of radioimmunoguided prostate brachytherapy. *Int J Radiat Oncol Biol Phys* 48:683-687, 2000.
189. Abraham D., Colussi, V, Shina, D, Kinsella T, Sibata C. TBI treatment planning using the ADAC Pinnacle treatment planning system. *Medical Dosimetry* 25:219-224, 2000.
190. Ellis RJ, Kim EY, Conant R, Sodee B, Spirnak JP, Dinchman KH, Beddar S, Wessels B, Resnick MI, Kinsella TJ. Radioimmunoguided imaging of prostate cancer foci with histopathological correlation. *Int J Radiat Oncol Biol Phys* 49:1281-1286, 2001.
191. Taverna P, Liu L, Hwang H-S, Hanson AJ, Kinsella TJ, Gerson SL. Methoxyamine potentiates DNA single strand breaks and double strand breaks induced by temozolomide in colon cancer cells. *Mutation Research* 485:269-281, 2001.
192. Myers M, Hwang H-S, Altose BR, Kinsella TJ, Boothman DA. Role of the hMLH1 DNA mismatch repair protein in fluoropyrimidine-mediated cell death and cell cycle responses. *Cancer Res* 61:5193-5201, 2001.
193. Beddar AS, Kinsella TJ, Ikhlef A, Sibata CH. A miniature "scintillator-fiberoptic-PMT" detector system for the dosimetry of small fields in stereotactic radiosurgery. *IEEE Transactions on Nuclear Science* 48:924-928, 2001.
194. Yan T, Schupp JE, Hwang H-S, Wagner MW, Strickfaden S, Veigl ML, Sedwick D, Boothman DA, Kinsella TJ. Loss of DNA mismatch repair imparts defective cdc2 signaling and G2 arrest responses without altering survival after ionizing radiation. *Cancer Res* 61:8290-8297, 2001.
195. Colussi VC, Beddar AS, Kinsella TJ, Sibata CH. *In vivo* dosimetry using a single diode for megavoltage photon beam radiotherapy: Implementation and response characterization. *J App Clin Med Phys* 2:210-218, 2001.
196. Leskov KS, Klokov DY, Li J., Kinsella TJ, Boothman DA. Synthesis and functional analyses of nuclear clusterin, a cell death protein. *J Biol Chem* 278:11590-11600, 2003.
197. Taverna P, Hwang H-S, Schupp JE, Radivoyevitch T, Session NN, Reddy G, Zarling D, Kinsella TJ. Inhibition of base excision repair potentiates iododeoxyuridine (IdUrd)-induced cytotoxicity and radiosensitization. *Cancer Res* 63:838-846, 2003.
198. Yan T, Berry SE, Desai AB, Kinsella TJ. DNA mismatch repair (MMR) mediates 6-thioguanine (6-TG) genotoxicity by introducing single strand breaks to signal a G2/M arrest in MMR-proficient RKO cells. *Clin Cancer Res* 9:2327-2334, 2003.
199. Yamane K, Chen J, Kinsella TJ. Both DNA Topoisomerase II-binding protein 1 and BRCA1 regulate the G2/M cell cycle checkpoint. *Cancer Res* 63:3049-3053, 2003.
200. Kuo M-L, Hwang H-S, Sosnay PR, Kunugi KA, Kinsella TJ. Overexpression of the R₂ Subunit of Ribonucleotide Reductase in Human Nasopharyngeal Cancer Cells Reduces Radiosensitivity. *Cancer J (Boston)* 9:277-285, 2003.
201. Berry SE, Loh T, Yan T, Kinsella TJ. Role of MutS α in the recognition of IdUrd in DNA. *Cancer Res* 63:5490-5495, 2003.

Peer-Reviewed Manuscripts (continued)

202. Ellis RJ, Vertocnik MS, Kim E, Zhou H, Young B, Sodee B, Fu P, Beddar S, Colussi V, Spirnak JP, Dinchman KH, Resnick M, Kinsella TJ. Four-year biochemical outcome after radioimmunoguided transperineal brachytherapy for patients with prostate adenocarcinoma. *Int J Radiat Oncol Biol Phys* 57:362-270, 2003.
203. Wu QJ, Chankong V, Jitprapaikulsarn S, Wessels BW, Einstein DB, Mathayomchan B, Kinsella TJ. Real-time inverse planning for gamma knife radiosurgery. *Med Phys* 30:2988-2995, 2003.
204. Wu JQ-R, Wessels BW, Einstein DB, Maciunas RJ, Kim EY, Kinsella TJ. Quality of coverage: conformity measures for stereotactic radiosurgery. *J Appl Clin Med Phys* 4:374-381, 2003.
205. Radivoyevitch T, Schupp JE, Taverna P, Kinsella TJ. The linear-quadratic log-survival radiation dose response model: Confidence ellipses, drug-drug interactions and brachytherapeutic gains. *Medical Hypotheses and Research* 1:23-28, 2004.
206. Yamane K, Yan T, Taylor K, Kinsella TJ. Mismatch repair-mediated G2/M arrest by 6-thioguanine involves the ATR-Chk1 pathway. *Biochem Biophys Res Comm* 318:297-302, 2004.
207. Wu QJ, Jitprapaikulsarn S, Mathayomchan B, Einstein D, Maciunas RJ, Pillai K, Wessels BW, Kinsella TJ, Chankong V. Clinical evaluation of a gamma knife inverse planning system. *Radiosurgery* 5:260-266, 2004.
208. Schultz CA, Mehta MP, McGinn CJ, Robins HA, Badie B, Volkman J, Binger D, Alberti D, Feierbend C, Tutsch KD, Wilding G, Kinsella TJ. Continuous 28 day iododeoxyuridine (IUdR) infusion and hyperfractionated accelerated radiotherapy (HART) for malignant glioma: A phase I clinical study. *Int J Radiat Oncol Biol Phys* 59:1107-1115, 2004.
209. Yan T, Desai AB, Jacobberger JW, Sramroski RM, Loh T, Kinsella TJ. CHK1 and CHK2 are differentially involved in mismatch repair-mediated 6-thioguanine-induced cell cycle checkpoint responses. *Mol Cancer Ther* 9:1147-1157, 2004.
210. Kunos CA, Resnick M, Kinsella T, Ellis RJ. Seed migration of implanted radioactive seeds for adenocarcinoma of the prostate using a MICK applicator. *Brachytherapy* 3:71-77, 2004.
211. Seo Y, Yan T, Schupp JE, Colussi V, Taylor KL, Kinsella TJ. Differential radiosensitization in DNA mismatch repair proficient and deficient human colon cancer xenografts with 5-iodo-2-pyrimidinone-2'-deoxyribose. *Clin Cancer Res* 10:7520-7528, 2004.
212. Chvetsov AV, Calvetti D, Sohn JW, Kinsella TJ. Regularization of inverse planning for intensity-modulated radiotherapy, *Medical Physics* 32 (2):501-514, 2005.
213. Yamane K, Kinsella TJ. Casein kinase 2 regulates both apoptosis and the cell cycle following DNA damage induced by 6-thioguanine. *Clin Cancer Res* 11:2355-2363, 2005.
214. Yamane K, Kinsella TJ. CK2 inhibits apoptosis and changes its cellular localization following ionizing radiation. *Cancer Res* 65:4362-4367, 2005.
215. Seo Y, Yan T, Schupp JE, Radivoyevitch T., Kinsella TJ. Schedule-dependent drug effects of oral 5-iodo-2-pyrimidinone-2'-deoxyribose as an *in vivo* radiosensitizer in U251 human glioblastoma xenografts. *Clin Cancer Res* 11:7508-7515, 2005.

Peer-Reviewed Manuscripts (continued)

216. Kunos C., Latson M.S., Overmoyer B., Silverman P., Shenk R., Kinsella T.J., Lyons J. Breast conservation surgery achieving ≥ 2 mm tumor-free margins results in decreased loco-regional recurrence rates. *The Breast Journal* 12:28-36, 2006.
217. Seo Y, Yan T, Schupp JE, Yamane K, Radivoyevitch T, Kinsella TJ. The interaction between two radiosensitizers: 5-iododeoxyuridine and caffeine. *Cancer Res* 66:490-498, 2006.
218. Talamonti MS, Small W Jr, Mulcahy MF, Wayne JD, Attaluri V, Colletti LM, Zaczupski MM, Hoffman JP, Freedman GM, Kinsella TJ, Philip PA, McGinn CJ. A multi-institutional phase II trial of preoperative full dose gemcitabine and concurrent radiation for patients with potentially resectable pancreatic cancer. *Annals Surg Oncology* 13:1-9, 2006.
219. Yan T, Seo Y, Schupp JE, Desai AB, Kinsella TJ. Methoxyamine potentiates iododeoxyuridine-induced radiosensitization by altering cell cycle kinetics and enhancing senescence. *Molecular Cancer Therapeutics* 5:893-902, 2006.
220. Kunos C, Colussi V, Getty P, Kinsella TJ. Intraoperative electron radiotherapy for extremity sarcomas does not increase acute or late morbidity. *Clinical Orthopedics and Related Research* 446:247-252, 2006.
221. Turner DP, Cortellino S, Schupp JE, Loh T, Kinsella TJ, Bellacosa A. The DNA N-glycosylase MED1 exhibits preference for halogenated pyrimidines and is involved in the cytotoxicity of 5-iododeoxyuridine. *Cancer Res* 66:7686-7693, 2006.
222. Zeng X, Yan T, Schupp JE, Seo Y, Kinsella TJ. DNA mismatch repair initiates 6-thioguanine-induced autophagy through p53 activation in human tumor cells. *Clin Cancer Res* 13:1315-1321, 2007.
223. Yamane K, Schupp JE, Kinsella TJ. BRCA1 activates a G2/M cell cycle checkpoint by 6-TG-induced DNA mismatch damage. *Cancer Res* 67:6286-6292, 2007.
224. Kinsella TJ, Kinsella MT, Seo Y, Berk G. 5-iodo-2-pyrimidinone-2'-deoxyribose (IPdR)-mediated cytotoxicity and radiosensitization in U87 human glioblastoma xenografts. *Int J Radiat Oncol Biol Phys* 69:1254-1261, 2007.
225. Gurkan E, Schupp JE, Azhar MA, Kinsella TJ, Loparo KA. Probabilistic modeling of DNA mismatch repair (MMR) effects on cell cycle dynamics and iododeoxyuridine (IUdR)-DNA incorporation: Implications for targeting MMR-deficient tumors for IUdR-mediated radiosensitization. *Cancer Res* 67:10993-11000, 2007.
226. Kinsella TJ, Kinsella MT, Hong SW, Johnson JP, Burbach B, Tosca PJ. Toxicology and pharmacokinetic study of orally administered 5-iodo-2-pyrimidinone-2' deoxyribose (IPdR) x 28 days in Fischer-344 rats: Impact on initial phase I trial design of IPdR-mediated radiosensitization. *Cancer Chemotherapy and Pharmacology* 61:323-334, 2008.
227. Small W Jr., Berlin J, Freeman GM, Lawrence T, Talamonti MS, Mulcahy MF, Chakravarty AB, Konski AA, Zalupski MM, Philip PA, Kinsella TJ, Merchant NB, Hoffman JP, Benson AB, Nicol S, Xu RM, Gill JF, McGinn CJ. Full-dose gemcitabine with concurrent radiation therapy in patients with non-metastatic pancreatic cancer: A multicenter phase II trial. *Journal of Clinical Oncology* 26:942-947, 2008.
228. Zeng X, Kinsella TJ. Mammalian target of rapamycin and S6 kinase 1 positively regulate 6-thioguanine induced autophagy. *Cancer Res* 68:2384-2390, 2008.

Peer-Reviewed Manuscripts (continued)

229. Williams CP, Reynolds H, Delaney CP, Champagne B, Obias V, Joh V-G, Merlino J, Kinsella TJ. Clinical results of intraoperative radiotherapy for locally recurrent and advanced tumors with colorectal involvement. *Amer J Surgery* 195:308-312, 2008.
230. Messick C, Hardacre JM, McGee MF, Siegel CT, Stellato TA, Sanabria JR, Kinsella TJ, Schulak JA. Early experience with intraoperative radiotherapy in resected pancreatic adenocarcinoma. *Amer J Surgery* 195:405-409, 2008.
231. Kunos CA, Dobbins DC, Kullasekere R, Latimer B, Kinsella TJ. Comparison of helical tomotherapy versus conventional radiation to deliver craniospinal radiation therapy. *Technology in Cancer Research and Treatment* 7:227-234, 2008.
232. Kinsella TJ, Seo Y, Willis J, Stellato TA, Siegel CT, Harpp D, Willson JK, Gibbons J, Sanabria JR, Hardacre JM, Schulak JA. The impact of resection margin status and post-operative serum CA19-9 levels on survival and patterns of recurrence following post-operative high-dose radiotherapy with 5FU-based concurrent chemotherapy for resectable pancreatic cancer. *American Journal of Clinical Oncology*, 31:446-453, 2008.
233. Aziz MA, Schupp JE, Kinsella TJ. Modulation of the activity of methyl binding domain protein 4 (MBD4/MED1) while processing iododeoxyuridine generated DNA mispairs. *Cancer Biology and Therapy*, 8:37-44, 2009.
234. Zagar TM, Shenk RR, Kim JA, Harpp D, Kunos CA, Abdul-Karim FW, Chen WC, Seo Y, Kinsella TJ. Radiation therapy in addition to gross total resection of retroperitoneal sarcoma results in prolonged survival: results from a single institutional study. *Journal of Oncology*, 2009. Published on-line 1/29/09; PMID 19277103.
235. Seo Y, Kinsella MT, Reynolds HL, Chipman G, Remick SC, Kinsella TJ. The outcome of chemoradiotherapy with 5-fluorouracil and mitomycin C for anal cancer in immunocompetent versus immunodeficient patients. *Int. J Radiat Oncol Biol Phys*, 75: 143-149, 2009.
236. Seo Y, Kinsella TJ. Essential Role of DNA Base Excision Repair on Survival in an Acidic Tumor Microenvironment. *Cancer Res*, 69: 7285-7293, 2009.
237. Yan T, Seo Y, Kinsella TJ. Differential cellular responses to prolonged low dose rate ionizing radiation in MLH1-proficient and-deficient colorectal cancer HCT116 cells. *Clin Cancer Res* 15: 6912-6920, 2009.
238. Kunos CA, Chiu S-M, Pink J, Kinsella TJ. Modulating radiation resistance by inhibiting ribonucleotide reductase in cancers with virally-or mutationally-silenced p53 protein. *Radiation Res* 172: 666-676, 2009.
239. Kunos CA, Waggoner S, von Gruenigen V, Eldermire E, Pink J, Dowlati A, Kinsella TJ. Phase I trial of 3-aminopyridine-2-carboxaldehyde thiosemicarbazone (3-AP, NSC #663249) in combination with pelvic radiation therapy and weekly cisplatin chemotherapy for locally advanced cervical cancer. *Clin Cancer Research* 16: 1298-1306, 2010.
240. Zeng X, Kinsella TJ. BNIP3 is essential for mediating 6-thioguanine-induced autophagy following DNA mismatch repair processing. *Cell Research* 20: 665-75, 2010.

Peer-Reviewed Manuscripts (continued)

241. Kunos C, Radivoyevitch T, Pink J, Chin SM, Stefan T, Jacobberger J, Kinsella TJ. Ribonucleotide reductase inhibition enhances chemoradiosensitivity of human cervical cancers. *Radiat Res* 174: 574-81, 2010.
242. Du W, Kinsella TJ. A rapid, simple DNA mismatch repair substrate construction method. *Frontiers in Oncology*, doi: 10.3389/fonc.2011.0008, published on line 6/6/11.
243. Kinsella TJ, Baron ED, Colussi VC, Cooper KD, Hoppel CL, Ingalls ST, Kenney ME, Li X, Oleinick NL, Stevens SR, Remick, SC. Preliminary clinical and pharmacologic investigation of photodynamic therapy with the silicon phthalocyanine photosensitizer, Pc-4, for primary or metastatic skin cancer. *Frontiers in Oncology*, doi: 10.3389/fonc.2011.00014, published on line, 6/30/11.
244. Kinsella TJ, Gurkan-Cavusoglu E, Loparo KA. Integration of principles of systems biology and radiation biology: Toward development of *in silico* models to optimize IUdR-mediated radiosensitization of DNA mismatch repair-deficient (damage tolerant) human cancers. *Frontiers in Oncology*, doi: 10.3389/fonc.2011.00020, pp.141-144, published on line 8/10/11.
245. Gurkan-Cavusoglu E, Schupp JE, Kinsella TJ, Loparo KA. Analysis of cell cycle dynamics using probabilistic cell cycle models. *Proceedings of 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Boston, MA, August, 2011.
246. Zeng X, Kinsella TJ. Impact of autophagy on the efficacy of chemotherapy and radiotherapy mediated tumor cytotoxicity: "To live or not to live". *Frontiers in Oncology*, doi: 10.3389/fonc.2011.00030, published on line 10/3/11.
247. Chapman TR, Kinsella TJ. Ribonucleotide reductase inhibitors: A new look at an old target for radiosensitization. *Frontiers in Oncology*, doi 10.3389/fonc.2011-0056, published on line 1/4/2012.
248. Gurkan-Cavusoglu E, Avadan S, Liu L, Loparo KA, Kinsella TJ. Developing an *in silico* model of the modulation of base excision repair (BER) using methoxyamine for more targeted cancer therapeutics. *IET Systems Biology*, 2012 (submitted).
249. Gurkan-Cavusoglu E, Schupp JE, Kinsella TJ, Loparo KA. Quantitative analysis of the effects of combined iododeoxyuridine (IUdR) and ionizing radiation treatment on the cell cycle dynamics of DNA mismatch repair deficient cells using probabilistic cell cycle models. *IEEE Transactions on Biomedical Engineering*, 2012 (submitted).
250. Jeyapalan S, Boxerman J, Donahue J, Goldman M, Kinsella, TJ, DiPetrillo T, Evans D, Elinzano H, Constantinou M, Stopa E, Puthawala MY, Cielo D, Santaniello A, Oyelese A, Rosati K, Isdale D, Safran H. Paclitaxel poliglumex, temozolomide and radiation for newly diagnosed high-grade glioma: A Brown University Oncology Group phase II study. *Amer J Clin Oncol*, 2012 (submitted).

Invited Papers, Editorials, Book Chapters, Letters to the Editor:

1. Kinsella TJ, Bloomer WD. Primary radiation therapy for breast cancer. *Female Patient* 5:60-67, 1980.
2. Kinsella TJ, Weichselbaum RR, Sheline G. Radiation injury of cranial and peripheral nerves. *In: Radiation Damage to the Nervous System: Delayed Therapeutic Hazards*, Gilbert H and Kagan R, eds, New York: Raven Press, 1980, pp 145-151.
3. Kinsella TJ, Bloomer WD. Current developments--new therapeutic strategies in radiation therapy. *JAMA* 245:1669-1674, 1981.
4. Kinsella TJ, Fraass BA, Glatstein E. Late effects of radiation therapy in the treatment of Hodgkin's disease. *Cancer Treatment Reports* 66:991-1002, 1982.
5. Kinsella TJ. The role of combined modality therapy in the curative management of advanced stage "favorable" non-Hodgkin's lymphomas. *Cancer Treatment Reports* 66:421-425, 1982.
6. Kinsella TJ, Glatstein E. Staging laparotomy and splenectomy for Hodgkin's disease: current status. *Cancer Investigation* 1:87-91, 1983.
7. Kinsella TJ, Glatstein E. Management of acute and late effects of radiation therapy on normal tissues. *In: Supportive Care of the Cancer Patient*, Wiernik PH, ed, Futura Publishing Company, 1983, pp 325-348.
8. Kinsella TJ. The role of radiation therapy alone and combined with infusional chemotherapy for treating liver metastases. *Seminars in Oncology* 10:215-222, 1983.
9. Kinsella TJ. Early intervention with combined modality therapy for "favorable" non-Hodgkin's lymphomas of advanced stage. *In: Lymphomas II*. Bennett JM, ed, Boston: Martinus Nijhoff, 1983, pp 272-287.
10. Brown JM, Biaglow JE, Hall EJ, Kinsella TJ, Phillips TL, Urtasun RC, Utley JF, Yuhas JM. Sensitizers and protectors to radiation and chemotherapeutic drugs. *Cancer Treatment Symposia* 1:85-103, 1984.
11. Carney DN, Brower M, Morstyn G, Mitchell JB, Kinsella TJ. Clinical and laboratory sensitivity of human lung cancer to chemotherapy and irradiation: correlation with endocrine properties. *In: The Endocrine Lung in Health and Disease*, Becker KL and Gazdar AF, eds, Philadelphia: WB Saunders Co., 1984, pp 603-611.
12. Kinsella TJ, Lichter AS, Miser J, Gerber, L. Glatstein E. Local treatment of Ewing's sarcoma: radiation therapy versus surgery. *Cancer Treatment Reports* 68:695-701, 1984.
13. Kinsella TJ, Mitchell JB, Russo A, Morstyn G, Glatstein E. The use of halogenated thymidine analogs as clinical radiosensitizers: rationale, current status, and future prospects: nonhypoxic cell sensitizers. *Int J Rad Oncol Biol Phys* 10:1399-1406, 1984.
14. Kinsella TJ, Sindelar WF. Intraoperative radiation therapy. *In: Principles and Practice of Oncology*, 2nd edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1985, pp 2293-2304.
15. Sindelar WF, Kinsella TJ, Mayer R. Pancreatic cancer. *In: Principles and Practice of Oncology*, 2nd edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1985, pp 691-741.

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

16. Myers CE, Kinsella TJ. Pulmonary toxicity. In: Principles and Practice of Oncology, 2nd edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1985, pp 2022-2032.
17. Russo A, Mitchell J, Kinsella T, Morstyn G, Glatstein E. Determinants of radiosensitivity. Seminars in Oncology 12:332-349, 1985.
18. Kinsella TJ, Glatstein E, Sindelar WF. Intraoperative radiotherapy. Hospital Practice 20:125-141, 1985.
19. Mitchell JB, Russo A, Kinsella TJ, Glatstein E. The use of nonhypoxic cell sensitizers in radiobiology and radiotherapy. Int J Rad Oncol Biol Phys 12:1513-1518, 1986.
20. Kinsella TJ. Limited surgery and radiation therapy for sarcomas of the hand and foot. Int J Rad Oncol Biol Phys 12:2045-2046, 1986.
21. Sindelar WF, Kinsella TJ. Intraoperative radiotherapy in carcinoma of the stomach. In: Stomach Cancer, Gall FP, Hermanek P, Hornig D, eds, Munich: Springer Verlag, 1986, pp 128-140.
22. Kinsella TJ, Sindelar WF, Bloomer WD. Radiation enteritis: pathophysiology, clinical manifestations and management. In: Surgery of the Small Intestine, Nyhus LM, Nelson RL, eds, Norwalk, Connecticut: Appleton-Century-Crofts, 1987, pp 193-203.
23. Kinsella TJ, Sindelar WF, Tepper JE, Tochner Z, Rich TA. Intraoperative radiotherapy. In: Innovations in Radiation Oncology Research, Peters LJ and Withers R, eds, Springer-Verlag, 1987, pp 141-152.
24. Sindelar WF, Kinsella TJ. Intraoperative radiotherapy: the National Cancer Institute experience. In: Progress in Radio-Oncology, volume 3, Karcher H, ed, New York: Raven Press, 1987, pp 141-152.
25. Hoekstra HJ, Sindelar WF, Kinsella TJ, Oldhoff J. History, preliminary results, complications and future prospects of intraoperative radiotherapy. J Surg Oncol 36:175-182, 1987.
26. Stea B, Kinsella TJ. Superior vena cava syndrome: an oncologic emergency. In: Thoracic Oncology, Roth J, Ruckdeschel J, Weisenburger T, eds, Philadelphia: W.B. Saunders, 1988, pp 280-292.
27. Brown JM, Hall EJ, Hirst DG, Kinsella TJ, Kligerman MM, Mitchell JB, Travis EJ, Valeriote F: Chemical modification of radiation and chemotherapy. Am J Clin Oncol 11:288-303, 1988.
28. Kinsella TJ. Adjuvant radiotherapy in pancreatic carcinoma-A reappraisal. Cancer Investigation 6:745-746, 1988.
29. Kinsella TJ. Future approaches in radiation therapy. In: New Directions in Cancer Treatment, Magrath I, ed, New York: Springer Verlag, 1988, 31-52.
30. Miser J, Triche T, Pritchard D, Kinsella T. Ewing's sarcoma and the nonrhabdomyosarcoma soft tissue sarcomas of childhood. In: Principles and Practices of Pediatric Oncology, Pizzo P and Poplack D, eds, Philadelphia:Lippincott, 1989, pp 659-688.
31. Israel MA, Miser J, Triche T, Kinsella TJ. Neuroepithelial tumors. In: Principles and Practice of Pediatric Oncology, Pizzo P and Poplack D, eds, Philadelphia: Lippincott, 1989, 623-634.
32. Brennan MF, Kinsella TJ, Friedman M. Pancreatic cancer. In: Principles and Practice of Oncology, 3rd edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1989, 800-835.

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

33. Sindelar WF, Kinsella TJ. Intraoperative radiation therapy for locally advanced cancers. *Southern Med J* 82:358-363, 1989.
34. Kinsella TJ. Effects of radiation therapy and chemotherapy on testicular function. *Prog Clin Biol Res* 302:157-171, 1989.
35. Paliwal BR, Fowler JF, Herbert DE, Kinsella TJ, Orton CG. Prediction of response in radiation therapy, Part I - The physical and biological basis and Part II - Analytical models and modeling. Published by the American Institute of Physics, Inc., New York, NY, 1989.
36. Kinsella TJ. Treatment approaches in soft tissue sarcomas -- putting our best foot forward. *Int J Radiat Oncol Biol Phys* 19:499-501, 1990.
37. Kinsella TJ, Sindelar WF. Normal tissue tolerance to intraoperative radiation therapy (IORT)-- experimental and clinical studies. In: *Frontiers in Radiation Therapy and Oncology: Radiation Effects and Tolerance of Normal Tissue*, Volume 23, Vaeth J, ed, Karger Basal Switzerland, 1990, pp. 202-214.
38. NIH Consensus Conference. (Kinsella TJ; contributing author) Adjuvant therapy for patients with colon and rectal cancer. *JAMA* 264:1444-1450, 1990.
39. Mahler P, Kinsella TJ. Radiation and cytotoxic drug effects on lung natural defense mechanisms. In: *Respiratory Disease in the Immunosuppressed Host*, Shelhamer J, Pizzo P, Parrillo J, Masur H (eds), Philadelphia, J.B. Lippincott, 1991, pp. 30-36.
40. Kinsella TJ, Gould MN, Mulcahy RT, Ritter MA, Fowler JF. Integration of cytostatic agents and radiation therapy: A different approach to "proliferating" human tumors. *Int J Radiat Oncol Biol Phys* 20:295-302, 1991.
41. Rodriguez R, Kinsella TJ. Sarcoma: Combined modality approaches. In: *Current Therapy in Hematology/Oncology - 4*, Brain MC, Carbone PP (eds), Philadelphia, B.C. Decker, 1991, pp. 377-380.
42. Rozental JM, Kinsella TJ. Brain tumors. In: *Combined Modality Cancer Therapy: Radiation and Infusional Chemotherapy*. Lokich J, Byfield J (eds), Chicago, Precept Press, Inc., 1991, pp. 215-239.
43. Giese WL, Kinsella TJ. Radiation injury to peripheral and cranial nerves. In: *Radiation Injury to the Nervous System*, 2nd edition, Gutin P, Sheline G, Liebel S, eds, New York, Raven Press, 1991, pp. 383-403.
44. Kinsella TJ. Radiosensitization of nonhypoxic cells. In: *Concomitant Continuous Infusion Chemotherapy and Radiation*. Rotman M, Rosenthal CJ (eds), Heidelberg-Springer, 1991, pp. 91-96.
45. Stea B, Kinsella TJ. Superior vena cava syndrome: Clinical features, diagnosis, and treatment. In: *The Mediastinum*, Shields TW (ed), Philadelphia, Lea and Febiger, 1991, pp 350-362.
46. Rodriguez R, Kinsella TJ. Halogenated pyrimidines as radiosensitizers for high grade glioma: Revisited. *Int J Radiat Oncol Biol Phys* 21:859-862, 1991.
47. McGinn CJ, Kinsella TJ. Combined modality therapy. *Current Oncology in Oncology* 3: 1049-1054, 1991

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

48. Kinsella TJ. Radiosensitization and cell kinetics: Clinical implications for S-phase specific radiosensitizers. *Seminars in Oncology* 19:41-47, 1992.
49. McGinn CJ, Kinsella TJ. The experimental and clinical rationale for the use of S-phase specific radiosensitizers to overcome tumor cell repopulation. *Seminars in Oncology* 19:21-28, 1992.
50. Rodriguez R, Kinsella TJ. Ewing's sarcoma. In: Combined Radiotherapy and Chemotherapy in Clinical Oncology. A. Horowich, Ed., Hodder & Stoughton Publishers, 1992, pp. 203-209.
51. Brennan MF, Kinsella TJ, Casper ES. Cancer of the pancreas. In: Principles and Practice of Oncology, 4th Edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1993, pp. 849-882.
52. Beard CJ, Coleman CN, Kinsella TJ. Radiation sensitizers In: Principles and Practice of Oncology, 4th Edition, DeVita VT, Hellman S, Rosenberg SA, eds, Lippincott, 1993, pp. 2701-2712.
53. Miser JS, Pritchard DJ, Triche TJ, Kinsella TJ. The other soft tissue sarcomas of childhood. In: Principles and Practice of Pediatric Oncology. 2nd edition. P.A. Pizzo and D.G. Poppack, Eds, J.B. Lippincott Company, 1993, pp 823-840.
54. Kinsella TJ: Soft Tissue Sarcoma: Combined Modality Approaches. In: Organ Conservation in Curative Cancer Treatment. Indications, Contraindications, Methods. JL Meyer and JM Vaeth, Eds; Karger, 1993, pp 186-199.
55. Mehta MP, Kinsella TJ. Cavernous sinus cranial neuropathies. Is there a dose-response relationship following radiosurgery? *Int J Radiat Oncol Biol Phys* 27:477-480, 1993.
56. McGinn CJ, Kinsella TJ. The clinical rationale for S-phase radiosensitization in human tumors. *Current Problems in Cancer* 27:273-324, 1993.
57. McGinn CJ, Kinsella TJ. Biochemical Modifiers: Nonhypoxic cell sensitizers. In: Radiation Oncology: Technology and Biology, 1st edition, Mauch PM, Loeffler JS, eds, W.B. Saunders, 1994, pp. 90-112.
58. Petereit DG, Fowler JF, Kinsella TJ. Optimizing the dose rate and technique in cervical carcinoma - balancing cases versus complications. *Int J Radiat Oncol Biol Phys* 29:1195-1198, 1994.
59. Johnstone PAS, Sindelar WF, Kinsella TJ. Experimental and clinical studies of intraoperative radiation therapy. *Current Problems in Cancer* 28:249-292, 1994.
60. Harari PM, Kinsella TJ. Advances in radiation therapy for head and neck cancer. *Current Opinion in Oncology* 7:248-254, 1995.
61. Mehta M, Kinsella TJ. Superior vena cava syndrome, In: Thoracic Oncology, 2nd edition, Roth JA, Ruckdeschel JC, Weisenburger TH, eds, Lippincott, 1995, pp. 239-258.
62. Kinsella TJ. Commentary on Radiation Sensitization by Fluorinated Pyrimidines. *Oncology* 9:14-17, 1995.)
63. Collins JM, Klecker RW, Chang AE, Kinsella TJ. Correspondence RE: J.A. Knol et al, Incorporation of 5-bromo-2'-deoxyuridine into colorectal liver metastases and liver in patients receiving a 7-day hepatic arterial infusion. *Cancer Res* 55:3687-3691, 1995. *Cancer Res* 56:2677-2678, 1996.

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

64. Kinsella TJ. An approach to the radiosensitization of human tumors. *The Cancer Journal from Scientific American* 2:184-193, 1996.
65. Noyes WR, Auchter RM, Craig B, French MC, Johnson MN, Lamond JP, Levin AB, Kinsella TJ, Mehta MP. Cost analysis of radiosurgery versus resection for single brain metastases. In *Radiosurgery 1996*, Kondziolka D (ed), S. Karger Publishers, 1996, pp 172-179.
66. Kinsella TJ, Sindelar WF. Intraoperative radiotherapy for cancer of the pancreas - experimental and clinical studies. *Cancer* 78:598-603, 1996.
67. Sharda N, Yang C-R, Kinsella TJ, Boothman D. Radiation Resistance, In: *Encyclopedia of Cancer*, Volume 10, Bertino JR, ed., Academic Press, Inc., 1997, pp 1409-1419.
68. Miser JS, Triche TJ, Kinsella TJ, Pritchard DJ. Other soft tissue sarcomas of childhood. In: *Principles and Practice of Pediatric Oncology*, 3rd edition, Pizzo P, and Poplack D, eds, Lippincott, 1997, pp 865-888.
69. Petereit DG, Kinsella TJ. An approach to radiosensitizing cervical cancer using chemical modulators of nucleoside metabolism. *Seminars in Radiation Oncology* 7:324-334, 1997.
70. Davis TW, Myers M, VanPatten C, Sharda N, Yang C-R, Kinsella TJ, Boothman DA. Transcriptional responses to damage created by ionizing radiation: molecular sensors. In: *DNA Damage and Repair. Volume 2: DNA Repair in Higher Eukaryotes.* pp 223-261, Nickoloff JA and Hoekstra M, eds., Humana Press 1998.
71. Mehta MP, Kinsella TJ. Treatment of low grade intramedullary gliomas: Biopsy and radiation therapy. In: *Controversies in Spine Surgery.* Zdeblick TA, Benzel EC, Anderson P, Stillerman CB, eds, Quality Medical Publishers, St. Louis, MO, 1998.
72. Sindelar WF, Hoekstra H, Johnstone PAS, Kinsella TJ. Normal tissue tolerance to intraoperative radiotherapy: The National Cancer Institute Experimental and Clinical Studies In: *Intraoperative Irradiation—Techniques and Results.* Gunderson LL, Willett CG, Harrison LB, Calvo FA, eds., Humana Press Inc., pp 131-146, 1999.
73. Sindelar WF, Kinsella TJ. Studies of intraoperative radiotherapy in carcinoma of the pancreas. *Annals of Oncology* 10:supp4:226-230, 1999.
74. Parry EJ, Stevens SR, Gilliam AC, Horvath N, Charif M, Spiro TP, Adler LP, Shina D, Kinsella T, Heyman EN, Cooper KD, Wood GS. On the horizon: Management of cutaneous lymphomas using a multidisciplinary approach. *Arch Dermatology* 135:907-911, 1999.
75. Dowlati A, Eakin R, Kinsella T. Chemotherapy-radiation interaction in lung cancer. In: *Lung Cancer: Principles and Practice of Oncology.* Pass H, Mitchell JB, Minna J, Turrissi A eds., 2nd edition; Lippincott, Williams and Wilkins, 2000, pp. 284-303.
76. Ellis RJ, Nag S, Kinsella TJ. Alternative techniques of intraoperative radiotherapy. *European Journal of Surgical Oncology* 26 (supplement A):S25-27, 2000.
77. Sibata CH, Colussi VC, Oleinick NL, Kinsella TJ. Photodynamic therapy: A new concept in medical treatment. *Brazilian Journal of Medical and Biological Research* 33:869-880, 2000.

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

78. Miyamoto S, Huang T, Wuerzberger –Davis S, Pink JJ, Tagiarino C, Kinsella TJ, Boothman DA. Cellular and molecular responses to topoisomerase I poisons: Exploiting synergy for improved radiotherapy. *Annals of New York Academy of Sciences* 922:274-292, 2000.
79. Sibata CH, Colussi VC, Oleinick NL, Kinsella TJ. Photodynamic therapy in oncology. *Expert Opin Pharmacother* 2:917-927, 2001.
80. Heiner JP, Kinsella TJ, Zdeblick TA, eds. *Management of Metastatic Disease to the Musculoskeletal System*. Quality Medical Publishing, 2001.
81. Samuels MA, Kinsella TJ. Endocrine cancer In: Management of Metastatic Disease to the Musculoskeletal System. Heiner JP, Kinsella TJ, Zdeblick TA, eds. Quality Medical Publishing 2001, pp. 203-220.
82. Ellis RJ, Kinsella TJ. Radiation therapy-general approaches In: Management of Metastatic Disease to the Musculoskeletal System. Heiner JP, Kinsella TJ, ZdeblickTA, eds. Quality Medical Publishing 2001, pp. 157-166.
83. Beddar AS, Domanovic MA, Kubu ML, Ellis RJ, Sibata CH, Kinsella TJ. Mobile linear accelerators for intraoperative radiation therapy. *AORN J* 74:700-705, 2001.
84. Berry SE, Kinsella TJ. Targeting DNA mismatch repair for radiosensitization. *Seminars in Radiation Oncology* 11:300-315, 2001.
85. Leskov KS, Criswell T, Antonio S, Li J, Yang C-R, Kinsella TJ, Boothman DA. When x-ray-inducible proteins meet DNA double strand break repair. *Seminars in Radiation Oncology* 11:352-372, 2001.
86. Kinsella TJ, McGinn CJ, Guest Editors. *New Targets for Tumor Radiosensitization*. *Seminars in Radiation Oncology* 11:269, 2001.
87. Kinsella TJ. Radiation Emergencies In: Oncologic Emergencies; P.G. Johnston and R.A.J. Spence, eds; Oxford University Press 2002; pp. 319-336.
88. Ellis RJ, Kim E, Kinsella TJ, Eisenberg, B. Intraoperative Radiotherapy in the Multimodality Approach to Bone and Soft Tissue Cancers. *Surgical Oncology Clinics of North America* 12:1015-1029, 2003.
89. Sindelar WF, Kinsella TJ. Normal Tissue Tolerance to Intraoperative Radiotherapy. *Surgical Oncology Clinics of North America* 12:925-942, 2003.
90. Domanovic MA, Ouzidane M, Ellis RJ, Kinsella TJ, Beddar AS. Using intraoperative radiation therapy—A case study. *AORN J* 77: 412-417, 2003.
91. Greskovich JF, Kinsella TJ. Superior Vena Cava Syndrome: Clinical Features, Diagnosis, and Treatment. *General Thoracic Surgery*, 6th Edition. Shields TW et al (ed). Lippincott Williams & Wilkins, 2004, pp.2545-2566.
92. Zarling DA, Vallerga AK, Kinsella T. New radiosensitizing (RS) regimens, drugs, prodrugs and candidates: Capecitabine, Gemcitabine, Fludarabine, IPdR, Avastin, Veglin, Gleevac, Radvac, Erbitux or Irressa. *Clinical Advances in Hematology and Oncology* 2:793-805, 2004.)

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

93. Kinsella TJ, Sohn J, Wessels BW. Principles of Radiation Oncology in: Oncology: An Evidence Based Approach; Chang AE, Gantz PA, Hayes DF, Kinsella TJ, Pass HI, Schiller J, Stone RM, Strecher V, (eds), Springer-Verlag; New York, New York, pp. 41-57, 2005.
94. Chang AE, Gantz PA, Hayes DG, Kinsella TJ, Pass HI, Schiller J, Stone RM, Strecher V (eds). Oncology: An Evidence Based Approach. Springer-Verlag, New York, New York, 2005.
95. Krishnamurthi SS, Seo Y, Kinsella TJ. Adjuvant therapy for rectal cancer. Clinics in Colon and Rectal Surgery 20:167-181, 2007.
96. Zeng X, Kinsella TJ. A novel role for DNA mismatch repair and the autophagic processing of chemotherapy damage in human tumor cells. Autophagy 3:368-370, 2007.
97. Saif MF, Cheng T-C, Berk G, Kinsella TJ. IPdR: A novel oral radiosensitizer. Expert Opinion in Investigational Drugs 16:1415-1424, 2007.
98. Gurkan E, Schupp JE, Kinsella TJ, Loparo KA. A conceptual modeling framework for the study of DNA mismatch repair pathway to improve therapeutic gain in cancer treatment. Proc. of the IEEE/NIH BISTI 2007 Life Science Systems and Applications Workshop (LISSA 2007), pp. 179-182.
99. Klionsky DJ, Agostinis P, Agrawal DK, et al (including Kinsella TJ). Guidelines for monitoring autophagy in higher eukaryotes. Autophagy 4:1-25, 2008.
100. Small et al (including Kinsella TJ). Response to letter by Drs. Kleeff and Friessto. Full-dose gemcitabine with concurrent radiation therapy in patients with non-metastatic pancreatic cancer: A multicenter phase II trial. J Clin Oncol 26:3100-3101, 2008.
101. Abbas R, Willis J, Kinsella T, Siegel C, Sanabria JR. Primary squamous cell carcinoma of the main hepatic bile ducts: a case report and review of the current literature. Can J Surg, 51:85-86, 2008.
102. Zagar TM, Triche TJ, Kinsella TJ. Extraosseous Ewing's Sarcoma: 25 years later. J Clin Oncol, 26:4230-4231, 2008.
103. Kinsella TJ. Update on radiosensitization by the halogenated thymidine analogs-molecular mechanisms of drug processing and cell death signaling: Implications for future clinical trials. Cancer Biol and Ther, 7:1567-1569, 2008.
104. Kinsella TJ. Coordination of DNA mismatch repair and base excision repair of chemotherapy and radiation damage for targeting resistant (damage tolerant) cancers. Clin Cancer Res, 15: 1848-1853, 2009.
105. Kinsella TJ. Understanding DNA damage response and DNA repair pathways: Application to more targeted cancer therapeutics. Seminars in Oncology, 36, Suppl 1: S42-S51, 2009.
106. Kinsella TJ. Strategies for targeted cancer therapy involving DNA damage response/repair pathways. American Society of Clinical Oncology Educational Book, pp 138-143, 2009
107. Seo Y, Kinsella TJ. Post-resection CA19-9 value as a prognostic factor: in response to the letter by Kilickap and Arslan. Amer. J. Clin Oncol 33: 107, 2010.

Invited Papers, Editorials, Book Chapters, Letters to the Editor (continued)

108. Kinsella TJ. Radiation Oncology: Today and Tomorrow. *Frontiers in Oncology*, doi: 10.3389/fonc.2011.00007, published on line 5/27/11.
109. Vujaskovic Z, Willett CG, Tepper JE, Kinsella TJ, Gunderson LL. Normal Tissue Tolerance to Intraoperative Electron Beam Radiation Therapy (IOERT), External Beam Radiation Therapy (EBRT), or Both: Animal and Clinical Studies in: Intraoperative Irradiation-Techniques and Results. Gunderson LL, Willett CG, Calvo FC, Harrison LB (eds); Second Edition; Springer-Verlag, New York, NY, pp 119-140, 2011.
110. Klionsky DJ, Abdalla FC, Abeliovich H, Kinsella TJ, et.al. Guidelines for the Use and Interpretation of Assays for Monitoring Autophagy. *Autophagy* 8: 445-544, 2012.
111. Kinsella TJ. DNA Mismatch Repair: It's Role in Human Carcinogenesis and as a Predictive and/or Prognostic Biomarker for Cancer Therapy in: DNA Repair and Cancer: Bench to Clinic. Madhusudan S, Wilson DM (eds), Science Publishers, Enfield, NH, pp 195-229, 2012.
112. Leonard K, Kinsella TJ. The Role of MLH1 in DNA Mismatch Repair. In Encyclopedia of Cancer Therapeutic Targets. J Marshall (ed), First Edition, Springer, New York, NY, (in press).
113. Hepel JT, Kinsella TJ. Osteosarcoma and Other Primary Tumors of Bone. In Principles and Practice of Radiation Oncology. Halperin EC, Wazer DE, Perez CA, Brady LW (eds), 6th Edition, Lippincott, Williams & Wilkins, Philadelphia, PA, (in press).
114. Kinsella TJ. Intraoperative Radiotherapy. In Principles and Practice of Radiation Oncology. Halperin EC, Wazer DE, Perez CA, Brady LW (eds), 6th Edition, Lippincott, Williams & Wilkins, Philadelphia, PA, (in press).