CURRICULUM VITAE Milton V. Marshall, Ph.D., D.A.B.T.

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Place of Birth: [redacted]

Education:	**Degree**	**Date**	**Major Field**
Univ. of Texas, Austin, TX	B.A.	[redacted]	Zoology
Univ. TX Grad. Schl. Biom. Sci., Houston, TX	Ph.D.	[redacted]	Biochemistry/Virology

Certification:

American Board of Toxicology	Diplomate	1992	Toxicology
Society of Quality Assurance	QA Professional	1997	Good Laboratory Practice
Society of Clinical Research Associates	CCRP	2003	Clinical Research

Present Positions:

2012-Present Vice President for Regulatory Affairs, Bexar Medical, Inc., San Antonio, TX
1993-Present President, Marshall & Associates, Houston, Texas
1993-Present Adjunct Associate Professor, University of Texas Medical Branch, Galveston, Texas

Previous Positions:

1993-2012 Adjunct Associate Professor, University of Texas Dental Branch, Houston, Texas
2008-2011 Director of Quality Assurance and Compliance, Center for Molecular Imaging, Institute of Molecular Medicine, The University of Texas Health Science Center at Houston, Houston, TX
2006-2008 Director of Quality Assurance and Compliance, Center for Molecular Imaging, Baylor College of Medicine, Houston, TX
2000-2007 Vice President for Research & Development, HESS, Inc., Richmond, TX
2006-2007 Quality Assurance Unit Leader, Texas Heart Institute
2006-2006 Adjunct Professor, College of Dentistry, University of Illinois at Chicago, Chicago, IL
2005-2006 Director, Research and Laboratories, American Dental Association, Chicago, IL
2004-2005 Director of Quality Assurance and Compliance, Texas Heart Institute, Houston, Texas
2001-2004 Adjunct Associate Professor, Univ. of North Carolina Dental School, Chapel Hill, NC
1997-2001 Adjunct Associate Professor, Univ. of Texas Dental School, San Antonio, Texas
1996-2004 Director of Quality Assurance, Texas Heart Institute, Houston, TX (Contract position)
1991-1993 Study Director, Stillmeadow, Inc., Sugar Land, Texas
1987-1991 Associate Professor of Medicine, Department of Medicine, Division of Oncology, University of Texas Health Science Center at San Antonio, San Antonio, Texas.
1987-1991 Adjunct Associate Scientist, Department of Physiology and Medicine, Southwest Foundation for Biomedical Research, San Antonio, Texas.
1983-1987 Adjunct Associate Professor, Department of Pharmacology, University of Texas Health Science Center at San Antonio, San Antonio, Texas.
1981-1987 Associate Scientist and Director, Genetic Toxicology Laboratory, Department of Physiology and Medicine, Southwest Foundation for Biomedical Research, San Antonio, Texas.
1980-1981 Assistant Biochemist and Assistant Professor of Biochemistry, University of Texas M. D. Anderson Cancer Center, Houston, Texas.
1979-1980 Research Scientist, Biochemistry Dept., University of Texas M. D. Anderson Cancer Center, Houston, Texas.
1975-1978 Postdoctoral Fellow, Department of Biochemistry, University of Texas M. D. Anderson Cancer Center, Houston, Texas.

Professional Organizations:

American Association for Laboratory Animal Sciences
American Association for Dental Research
American Dental Association - Member, Standards Committee on Dental Products
Association for Assessment and Accreditation of Laboratory Animal Care, International (ad hoc consultant)

Regulatory Affairs Professional Society
Sigma Xi (elected Treasurer, Alamo Chapter, 1985-1991)
Society of Clinical Research Associates
Society of Quality Assurance (elected President of regional chapter, 2006; member Council on Professional Registration, 2007-2008, elected to Board of Directors, 2010-2011)
Society of Toxicology

Editorial Board Appointments:

2001-Present The Journal of Clinical Dentistry

Publications

1. Marshall, M. V.: The mengovirus replicative form RNA: Properties and possible role in inhibition of host protein synthesis. University of Texas, Houston, Ph.D. Thesis, 1975.
2. Briscoe, W. T., Syrewicz, J. J., Marshall, M. V., and Griffin, A. C.: Regulation of an aspartyl-tRNA species in BHK cells in culture and in solid tumor form. Biochim. Biophys. Acta 383:441-445, 1975.
3. Marshall, M. V. and Arlinghaus, R. B.: Polyadenylic acid in the genomic RNA of mengovirus. J. Virol. 19:743-745, 1976.
4. Marshall, M. V., Adams, D. L., and Griffin, A. C.: Regulation of an aspartyl-tRNA species in BHK cells in culture and in solid tumor form. II. The effect of different sera on aspartyl-tRNA in culture. Cancer Lett. 4:147-153, 1978.
5. Snodgrass, D. R., McLemore, T. L., Marshall, M. V., Wray, N. P., Cantrell, E. T., Busbee, D. L., and Arnott, M. A.: Induction of aryl hydrocarbon hydroxylase in human peripheral blood lymphocytes by chrysene. Cancer Lett. 7:313-318, 1979.
6. Marshall, M. V., Arnott, M. S., Jacobs, M. M., and Griffin, A. C.: Selenium effects on the carcinogenicity and metabolism of 2-acetylaminofluorene. Cancer Lett. 7:331-338, 1979.
7. Marshall, M. V., McLemore, T. L., Martin, R. R., Jenkins, W. T., Snodgrass, D. R., Corson, M. A., Arnott, M. S., Wray, N. P., and Griffin, A. C.: Patterns of benzo(a)pyrene metabolism in normal human pulmonary alveolar macrophages. Cancer Lett. 8:103-109, 1979.
8. Cantrell, E. T., Marshall, M., McLemore, T., Ghanayem, B., and Busbee, D.: Secondary metabolism of benzo(a)pyrene in human cells. Proc. West. Pharmacol. Soc. 22:273-276, 1979.
9. McLemore, T. L., Mace, M. L., Jr., Roggli, V., Marshall, M. V., Lawrence, E. C., Wilson, R. K., Martin, R. R., Brinkley, B. R., and Greenberg, S. D.: Asbestos body phagocytosis by human free alveolar macrophages. Cancer Lett. 9:85-93, 1980.
10. Marshall, M. V., Gonzalez, M. A., McLemore, T. L., Busbee, D. L., Wray, N. P., and Griffin, A. C.: Reverse-phase separation of benzo(a)pyrene metabolites by thin-layer chromatography. J. Chromatogr. 197:217-225, 1980.
11. McLemore, T. L., Roggli, V., Marshall, M. V., Lawrence, E. C., Greenberg, S. D., and Stevens, P. M.: Comparison of phagocytosis of uncoated versus coated asbestos fibers by cultured human pulmonary alveolar macrophages. Chest 80(Suppl.):39S-42S, 1981.
12. Robberson, D. L., Thornton, G. B., Marshall, M. V., and Arlinghaus, R. B.: Novel circular forms of mengovirus - specific double-stranded RNA detected by electron microscopy. Virol., 116:454-467, 1982.
13. Goodwin, W. J., Lane, H. W., Bradford, K., Marshall, M. V. Griffin, A. C., Goepfert, H., and Jesse, R. H.: Selenium and glutathione peroxidase levels in patients with epidermoid carcinoma of the oral cavity and oropharynx. Cancer, 51:110-115, 1983.
14. Marshall, M. V., Noyola, A. J., and Rogers, W. R.: Analysis of urinary mutagens produced by cigarette-smoking baboons. Mutat. Res., 118:241-256, 1983.
15. Marshall, M. V., Noyola, A. J., and Brown, J. H.: Testing for mutagenic activity in Jojobutter-51. Soap/Cosmetics/Chemical Specialties, 59:40-42, 1983.

16. McLemore, T. L., Mauldin, J. E., Marshall, M. V., Teague, R., Ford, G., Busbee, D. L., Wray, N. P., Griffin, A. C., and Greenberg, S. D.: Biological effects of Mount Saint Helens volcanic ash on cultured human alveolar macrophages. J. Am. Coll. Toxicol., 3:25-35, 1984.
17. Purdy, R. H. and Marshall, M. V.: Enhancement of the mutagenicity of carcinogenic arylamines by ethinyl estradiol. Carcinogenesis, 5:1709-1715, 1984.
18. Adams, J., LaVoie, E., O'Mara-Adams, K. J., Hoffmann, D., Carey, K. D., and Marshall, M. V.: On the pharmacokinetics of N'-nitrosonornicotine (NNN) and 4-(methylnitros-amino)-1-(3-pyridyl)-1-butanone (NNK) in several laboratory animal species. Cancer Lett., 28:195-201, 1985.
19. Newell, G. R., and Marshall, M. V.: Lack of association between fluoridation of water and cancer. Texas Medicine, 82:48-50, 1986.
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21. Sepkovic, D. W., Marshall, M. V., Rogers, W. R., Cronin, P. A., Colosimo, S. G., and Haley, N. J.: Thyroid hormone levels and cigarette smoking in baboons. Proc. Soc. Exptl. Biol. Med. 187:223-228, 1988.
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23. Ravdin, P. M., Havlin, K. A., Marshall, M. V., Brown, T. D., Koeller, J. M., Kuhn, J. G., Rodriguez, G., and Von Hoff, D. D.: A phase I clinical and pharmacokinetic trial of hepsulfam. Cancer Research, 51:6268-6272, 1991.
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27. Marshall, M. V., Marshall, M. H., Chacon, D. R., Roodman, G. D., Kuhn, J. G., Ross, M. E., and Von Hoff, D. D.: In vitro cytotoxicity of hepsulfam against human tumor cell lines and primary human colony forming units. Stem Cells, 11:62-69, 1993.
28. Marshall, M. V., He, Z-M., Rice, J. E., and LaVoie, E. J.: Mutagenic activity of the 4,5- and 9,10-dihydrodiols of benzo[j]fluoranthene and their syn- and anti-dihydrodiol epoxides in *Salmonella typhimurium*. Environmental and Molecular Mutagenesis, 22:34-45, 1993.
29. Marshall, M. V., Driskill, L. G., Von Hoff, D. D., and Hanauske, A. R.: Stability of extrachromosomal DNA after different storage conditions. Biotechniques, 14:737-739, 1993.
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35. Gragg, P. P., Hudepohl, N. C., Baker, B. R., and Marshall, M. V.: Dental erosion associated with the use of imported, low-pH snacks. Texas Dental Journal 115:7-13, 1998.

36. Marshall, M. V., Gragg, P. P., Packman, E. W., Wright, P. W. and Cancro, L. P.: Hydrogen peroxide decomposition in the oral cavity. American Journal of Dentistry, 14:39-45, 2001.
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38. Greiner, L. G., and Marshall, M. V. Rocky Mountain chapter honors founding members. Quality Matters. 22:13, 2007.
39. Sevick-Muraca, E. M., Sharma, R., Rasmussen, J. C., Marshall, M. V., Wendt, J. A., Pham, H. V., Bonefas, E., Houston, J. P., Sampath, L., Adams, K. E., Blanchard, D. K., Fisher, R. E, Chiang, S., Elledge, R. and Mawad, M. E. Imaging of lymph flow in breast cancer patients after microdose administration of a near-infrared fluorophore, Radiology, 246:734-741, 2008.
40. Marshall, M. V., Standard operating procedures: Why they are needed and how to prepare them. SoCRA Source, 56:48-53, 2008.
41. Sharma, R., Wendt, J.A., Rasmussen, J.C., Adams, K.E., Marshall, M.V., and Sevick-Muraca, E. M. New Horizons for Imaging Lymphatic Function. *Annals of NY Acad. Science*, Ed. Stanley Rockson, 1131:13–36, 2008.
42. Rasmussen, J. C., Tan, I-C., Marshall, M. V., Fife, C. E., and Sevick-Muraca, E. M. Lymphatic Imaging in Humans with Near-Infrared Fluorescence. Current Opinion in Biotechnology, 20: 74-82, 2009.
43. Marshall, M. V., Draney, D., Sevick-Muraca, E. M., and Olive, D. M. Single dose intravenous toxicity study of IRDye 800CW in Sprague-Dawley Rats, Molecular Imaging and Biology, 12: 583-594, 2010.
44. Marshall, M.V., Rasmussen JC, Tan I-C, Aldrich MB, Adams KE, Wang X, Fife CE, Maus EA, Smith L, and Sevick-Muraca, E. M. Near-infrared fluorescence imaging in humans with indocyanine green: a review and update, The Open Surgical Oncology Journal, 2:12-25, 2010.
45. Adams, K.E., Rasmussen, J.C., Darne, C., Tan, I-C, Aldrich, M.B., Marshall, M.V., Fife, C.E., Maus, E.A., Smith, L.A., Guilliod, R., Hoy, S. and E.M. Sevick-Muraca, Direct evidence of lymphatic function after pneumatic compression device treatment of lymphedema, Biomedical Optics Express, 1:114-125, 2010.
46. Rasmussen, J.C., Tan, I-C, Marshall, M.V., Adams, K.E., Kwon, S., Fife, C.E., Maus, E.A., Smith, L., Covington, K.R., and E.M. Sevick-Muraca. Human lymphatic architecture and (dys)function imaged using NIR fluorescence, Translational Oncology, 3:362-372, 2010.
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49. Dunlap T, Marshall MV, Costerton WJ, Schaudinn C, Sindelar B, Cotton JR, Keller DC. Subgingival Delivery of Oral Debriding Agents. A Proof of Concept. J Clin Dentistry, 22:149-158, 2011.
50. Maus, E. A., Tan, I-C., Rasmussen, J. C. Marshall, M. V., Fife, C. E., Smith, L. A., and Sevick-Muraca, E. M. NIR fluorescence lymphatic imaging of head and neck lymphedema: a case study, Head and Neck, 34:448-453, 2012.
51. Aldrich, M. B., Marshall, M. V., Sevick-Muraca, E. M., Lanza, G., Kotyk, J., Culver, J., Wang, L. V., Uddin, J., Crews, B. C., Marnett, L. J., Liao, J. C., Contag, C., Crawford, J. M., Wang, K., Reisdorph, B., Appelman, H., Turgeon, D. K., Meyer, C., and Wang, T. Seeing it through: translational validation of new medical imaging modalities. Biomedical Optics Express, 3:774-776, 2012.

Abstracts

1. Marshall, M. V. and Fox, J. L.: Solid phase synthesis of succinic acid dehydrogenase flavin bound pentapeptide. International Congress of Biochemistry, 9th, Stockholm, Sweden, 1973, Abstracts. p. 456(Dc 10).
2. Arcement, L. J., Marshall, M. V., Naso, R. B., and Arlinghaus, R. B.: Isolation and characterization of an inhibitor of protein synthesis associated with the 65S RNA of Rauscher Leukemia Virus. American Society for Microbiology, 74th Annual Meeting, Chicago, Illinois, 1974, Abstracts. p. 239 (V 234).
3. Marshall, M. V. and Arlinghaus, R. B.: Electrophoretic analysis of mengovirus replicative form RNA. American Society for Microbiology, 75th Annual Meeting, New York, New York, 1975, Abstract. p. 219(S 34).
4. Marshall, M. V. and Griffin, A. C.: Comparison of two isoaccepting species of tRNA from BHK 21/clone 13 cells grown in culture. Fed. Proc. 35:1468(581), 1976.
5. Marshall, M. V., Arlinghaus, R., and Robberson, D. L.: A novel intermediate in the replication of mengovirus RNA. J. Cell Biol. 70:284a(852), 1976.
6. Marshall, M. V., Adams, D. L., and Griffin, A. C.: Changes in elution patterns of aspartyl tRNA under various growth conditions. American Society for Microbiology, 77th Annual Meeting, New Orleans, Louisiana, 1977, Abstracts. p. 154(H 115).
7. Marshall, M. V., Jacobs, M. M., and Griffin, A. C.: Reduction in acetylaminofluorene (AAF) hepatocarcinogenesis by selenium. Proceedings of the American Association for Cancer Research and the American Society of Clinical Oncology 19:75(298), 1978.
8. Marshall, M. V., Rasco, M. A., and Griffin, A. C.: Effects of selenium on benzo(a)pyrene metabolism. Fed. Proc. 37:1383(628), 1978.
9. Marshall, M. V., McLemore, T. L., Arnott, M. S., Martin, R. R., and Griffin, A. C.: Metabolism and conjugation of benzo(a)pyrene by human pulmonary alveolar macrophages. Proceedings of the American Association for Cancer Research and the American Society of Clinical Oncology 20:183(738), 1979.
10. Marshall, M. V., Mace, M. L., Jr., McLemore, T. L., Martin, R. R., Busbee, D. L., and Griffin, A. C.: Selenium and human pulmonary alveolar macrophages (PAMs): Effects on viability and benzo(a)pyrene (BP) metabolism. Proceedings of the American Association for Cancer Research and American Society of Clinical Oncology 21:86(343), 1980.
11. Marshall, M. V., McLemore, T. L., Martin, R. R., Busbee, D. L., and Griffin, A. C.: Metabolism of benzo(a)pyrene by human pulmonary alveolar macrophages. Fed. Proc. 39:1950(1813), 1980.
12. Marshall, M. V. and Griffin, A. C.: Selenium and cancer chemoprevention. Journal of Supramolecular Structure and Cellular Biochemistry, Supplement 5:216(590), 1981.
13. Marshall, M. V., McLemore, T. L., Feuerbacher, D. L., and Griffin, A. C.: Surface alterations of asbestos and resulting effects on human pulmonary alveolar macrophages (PAMs). Proceedings of the American Association for Cancer Research and American Society of Clinical Oncology 22:72(285), 1981.
14. Goodwin, W. J., Marshall, M. V., Mavligit, G. M., Wong, W., Zaldivar, E., Lane, H. W., Griffin, A. C., and Jesse, R. H.: Plasma retinol levels and cellular immune function in patients with untreated epidermoid carcinoma of the oral cavity and oropharynx. Proceedings of the American Association for Cancer Research and the American Society of Clinical Oncology 22:419(C-342), 1981.
15. Marshall, M. V., Gonzalez, M. A., and Griffin, A. C.: Selenium enhanced conjugation of benzo(a)pyrene by hepatocytes. Proceedings of the American Association for Cancer Research 23:71(278), 1982.
16. Marshall, M. V., Gonzalez, M. A., and Griffin, A. C.: Enhanced benzo(a)pyrene metabolism and conjugation by hepatocytes isolated from dietary selenium supplemented rats. Proceedings of the 13th International Cancer Congress, p. 546, 1982.
17. Marshall, M. V., Noyola, A. J., and Rogers, W. R.: Production of urinary mutagens by cigarette smoking baboons. Environmental Mutagenesis, 5:477(Ee22), 1983.
18. Marshall, M. V., Gonzalez, M. A., and Rogers, W. R.: Bronchial metabolism of benzo(a)pyrene by baboons. Proceedings of the American Association for Cancer Research, 24:78(310), 1983.
19. Marshall, M. V., Hinojosa, M. G., and Rogers, W. R.: Activation of cigarette smoke components to mutagens in V79 cells by pulmonary alveolar macrophages (PAMs) lavaged from sham-puffing

and cigarette-smoking baboons. Proceedings of the American Association for Cancer Research 25:101 (397), 1984.

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21. Adams, J. D., LaVoie, E. J., Hoffmann, D., and Marshall, M. V.: On the pharmacokinetics N'-nitrosonornicotine and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in rats, hamsters, mice, and baboons. Organic and Biological Chemistry of Carcinogenic and Carcinostatic Agents Containing Nitrogen-Nitrogen Bonds, 1985.
22. Marshall, M. V., Hinojosa, M. G. and Rogers, W. R.: Increased mutagenic activity in urine concentrates from baboons after acquisition of cigarette smoking. Proceedings of the American Association for Cancer Research, 26:97(381), 1985.
23. Marshall, M.V. and Gleiser, C.A.: Metabolism and mutagenic activation of benzo(a)pyrene by baboon bladder cells. Proceedings of the American Association for Cancer Research, 27:109(431), 1986.
24. Sepkovic, D. W., Marshall, M., Colosimo, S., and Haley, N. J.: Thyroid hormone activity in a cigarette smoking baboon model. Fed. Proc. 46:649(1942), 1987.
25. Marshall, M. V. and Gleiser, C. A.: 2-Acetylaminofluorene (AAF) carcinogenesis and dietary selenium. Proc. of the American Association for Cancer Research, 28:159(633), 1987.
26. Coronado, E. C., Ramasharma, K., Li, C. H., Kitten, L., Marshall, M., Fuqua, S., and Osborne, C. K.: Insulin-like growth factor II (IGF-II): A potential autocrine growth factor for human breast cancer. Proceedings of the American Association for Cancer Research, 29:237(942), 1988.
27. Marshall, M. V., Carey, K. D., Adams, J. D., and LaVoie, E. J.: Mutagenic activity in baboon bile, pancreatic fluid, and urine after 4-aminobiphenyl or cigarette tar exposure. Proceedings of the American Association for Cancer Research, 29:127(504), 1988.
28. Marshall, M. V., Driskill, L. G., Carey, K. D., and Rogers, W. R.: Cigarette smoking and antipyrine clearance in baboons. Proceedings of the American Society for Clinical Oncology, 8:56(218), 1989.
29. Hanauske, A.-R., Driskill, L. G., Marshall, M. V., and Von Hoff, D. D.: Isolation of extrachromosomal DNA from cultured cells after different storage conditions. Proceedings of the American Association for Cancer Research, 30:422(1676), 1989.
30. Havlin, K., Rodriguez, G., Marshall, M., Kuhn, J., Brown, T., Weiss, G., Koeller, J., Turner, J., Brown, J., Cagnola, J., and Von Hoff, D.: Phase I clinical and pharmacokinetic study of Hepsulfam (NSC 329680). Proceedings of the American Society for Clinical Oncology, 9:72(277) 1990.
31. Marshall, M. V., Havlin, K. A., Brown, T. D., Weiss, G. R., Koeller, J. M., Rodriguez, G., Cagnola, J., Von Hoff, D. D., and Kuhn, J. G.: Pharmacokinetics of hepsulfam (Sulfamic acid 1,7-heptanediyl ester), a new phase I agent. Proceedings of the American Association for Cancer Research, 31:206(1224) 1990.
32. Marshall, M. V., Havlin, K. A., Brown, T. D., Weiss, G. R., Koeller, J. M., Rodriguez, G., Cagnola, J., Kuhn, J., and Von Hoff, D.: Phase I and pharmacokinetic trial of hepsulfam (Sulfamic acid 1,7-heptanediyl ester). Cancer Research and Clin. Oncol., 116(Suppl., Part I):578(A5.213.05), 1990.
33. Ammenheuser, M. M., Ward, J. B., Jr., Whorton, E. B., Jr., and Marshall, M. V.: A longitudinal study comparing pre-smoking and post-smoking 6-thioguanine-resistant variant frequencies in baboons trained to smoke cigarettes. Environmental and Molecular Mutagenesis, 15(Suppl. 17):6(11), 1990.
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35. Marshall, M. V., Chacon, D. R., Marshall, M. H., Ross, M. E., and Von Hoff, D. D.: Cytotoxicity of hepsulfam (sulfamic acid 1,7-heptanediyl ester, NSC 329680) in human tumor cell lines and in primary human tumor cells. The Toxicologist, 11:156(550), 1991.
36. Marshall, M. V., and Lu, L.-J. W.: Cigarette smoking-induced DNA adducts in baboon and human tissues. Proceedings of the American Association for Cancer Research, 32:298(587) 1991.
37. Ravdin, P. M., Havlin, K. A., Marshall, M. V., Kuhn, J. G., Brown, T. D., Cagnola, J., Rodriguez, G. I., Brown, J. M., and Von Hoff, D. D.: A phase I trial with pharmacokinetics of hepsulfam. Proceedings of the American Association for Cancer Research, 32:201(1198) 1991.

38. Woolley, J., De Angelis, D., Liao, S., Collier, M., Cortez, M., Kuhn, J., Marshall, M., and Weiss, G.: The disposition of ^{14}C-piritrexim in advanced cancer patients. Proceedings of the American Association for Cancer Research, 32:346(2053) 1991.
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