

Publications List for John M. Pezzuto

Ph.D. Dissertation

"Studies on the Metabolic Activation of Benzo(a)pyrene and Subsequent Binding to Nuclear Macromolecules," University of Medicine and Dentistry of New Jersey, Newark, New Jersey, 1977.

Articles in print/in press

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Marcelle, G.B., Ahmed, M.S., Pezzuto, J.M., Cordell, G.A., Waller, D.P., Soejarto, D.D., and Fong, H.H.S. Quantitative analysis of gossypol and gossypol-acetic acid by high-performance liquid chromatography. *J. Pharm. Sci.* **73**: 396-398, 1984.

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- Pezzuto, J.M. *In Vitro* Models of Human Disease States, Division of Medicine Grand Rounds, Univ. Texas M.D. Anderson Cancer Center, Houston, TX, Aug. 12, 1997.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents, Univ. Texas M.D. Anderson Cancer Center, Houston, TX, Aug. 13, 1997.
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- Pezzuto, J.M., Jang, M.S., Cai, L., Udeani, G.O., Slowing, K.V., Thomas, C.F., Beecher, C.W.W., Fong, H.S.S., Farnsworth, N.R., Kinghorn, A.D., Mehta, R.G., and Moon, R.C. Cancer Chemopreventive Activity of Resveratrol, a Component of Grapes and Grape-derived Products. First International Scientific Congress "Wine and Health," Fundacion para la Investigacion del Vino, Madrid, Spain, Oct. 2-3, 1997.
- Pezzuto, J.M., Jang, M.S., Cai, L., Udeani, G.O., Slowing, K.V., Thomas, C.F., Beecher, C.W.W., Fong, H.S.S., Farnsworth, N.R., Kinghorn, A.D., Mehta, R.G., and Moon, R.C. Cancer Chemopreventive Activity of Resveratrol. New Anticancer Agents, International Institute of Anticancer Research, Athens, Greece, Oct. 12-15, 1997 (*Anticancer Res.*, **17**: 4092, 1997).
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- Pezzuto, J.M. Alternative Medicines for Cancer Chemoprevention, American Society of Health-System Pharmacists Midyear Meeting, Atlanta, GA, Dec. 7-11, 1997.
- Pezzuto, J.M. Natural Product Drug Discovery in an Academic Environment. Interdisciplinary Environmental Toxicology Seminar Series, University of Illinois at Urbana-Champaign, Urbana, Illinois, December 12, 1997.
- Pezzuto, J.M. Cancer Chemoprevention. American College of Obstetricians and Gynecologists, Gynecologic Oncology Group, Seattle, WA, January 17, 1998.

- Pezzuto, J.M. Cancer Chemopreventive Activity of Resveratrol, Welch's Oncology Advisory Group, New York, NY, January 20, 1998.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents. Rutgers University, New Brunswick, NJ, January 21, 1998.
- Pezzuto, J.M. Health Quest Symposium on natural anti-cancer compounds, Cancer Chemopreventive Activity of Resveratrol, Anaheim, CA, March 14, 1998.
- Pezzuto, J.M. Medicines from Natural Products: From Discovery to Development (Complementary Medicine Program, Science Symposium), American Pharmaceutical Association, Miami, FL, March 21-25, 1998.
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- Udeani, G.O., Zhao, G.M., Beecher, C.W.W., Moon, R.C., Kinghorn, A.D., and Pezzuto, J.M. Preclinical Pharmacokinetics of Deguelin, a Naturally Occurring Chemopreventive Agent. 89th Annual Meeting of the American Association of Cancer Research, New Orleans, March 28-April 1, 1998.
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- Pezzuto, J.M. Natural Inhibitors of Carcinogenesis. Monsanto Life Sciences, St. Louis, MO, April 7, 1998.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Drugs, Geraldine Brush Cancer Research Institute, San Francisco, CA, April 20, 1998.
- Pezzuto, J.M. Inhibition of Carcinogenesis by Natural Products Derived from Plants (Symposium entitled Herbal Medicine: Current Status of Use and Research in the U.S.), American Society for Pharmacology and Experimental Therapeutics, Symposium, San Francisco, CA, April 18-22, 1998.

- Symposium sponsored by the California Table Grape Commission, lecture and co-organizer, San Francisco, CA, April 30-May 1, 1998 (published as a supplement to Vol. 36 of *Pharm. Biol.*).
- Pezzuto, J.M. Discovery of Natural Product Drugs in an Academic Environment. XIIth International Symposium on Plant Originated Crude Drugs. Hacettepe University, Ankara, Turkey, May 20-22, 1998.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Drugs. Collaborative Research Programs in Organic Synthesis and Bioactive Natural Products Drugs. Mahidol University, Bangkok, Thailand, May 30, 1998.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents. Division of Cancer Chemoprevention, National Cancer Institute, June 11, 1998.
- Pezzuto, J.M. Survey of Ethnomedical Data, Chemical Constituents, and Biological Activities of *Glycine max*. Consortium on Human Health and Soybeans, Chicago, Illinois, July 13-14, 1998.
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- Pezzuto, J.M. Lecture entitled "Evaluating Plant Extracts for Cancer Chemopreventive Activity" and "Cancer Inhibiting Effects of Resveratrol, a Compound Found in Grapes and Grape Wine," Annual Meeting of the North Carolina Grape Grower's Association, Wilmington, NC, July 31, 1998.
- Pezzuto, J.M. Natural Product Drug Discovery in an Academic Environment. Sustainable Development and Conservation of Biodiversity in Vietnam, National Center for Science and Technology, Hanoi, Vietnam, October 2-3, 1998.
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- Pezzuto, J.M. Discovery and Characterization of Natural Product Drugs, University of Salerno, Salerno, Italy, December 3, 1998.
- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents. Department of Immunology/Microbiology, Rush Medical Center, Chicago, Illinois, December 14, 1998.
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- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents. CU-Hauser Natural Products Chemistry Symposium. University of Colorado at Boulder, Boulder, CO, May 19-21, 1999.
- Pezzuto, J.M. Natural Product Cancer Chemopreventive Agents, Chicago Experimental Group, Northwestern University, Chicago, IL, June 23, 1999.
- Bhat, K.P.L. and Pezzuto, J.M. Evaluation of Resveratrol as a Selective Estrogen Receptor Modulator. FIVIN 2nd International Scientific Congress, "Wine and Health", Madrid, Spain, Oct. 21-22, 1999.
- Pezzuto, J.M. Discovery and Characterization of Novel Natural Products that may be of Value in the Prevention of Human Cancer, International Conference on Molecular Targets and Cancer Therapeutics (AACR-NCI-EORTC meeting), presented in workshop entitled "Prevention Targets," Washington, DC, Nov. 16-19, 1999.
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- Pezzuto, J.M. Natural Inhibitors of Carcinogenesis, Department of Hematology/ Oncology Seminar Series, College of Medicine, UIC, February 3, 2000.
- Pezzuto, J.M. and Das Gupta, T.K. Therapeutic Application of Betulinic Acid in Melanoma, presented betulinic acid RAID application at the National Cancer Institute, Bethesda, MD, March 15, 2000.
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- Pezzuto, J.M. Discovery and Characterization of Natural Product Cancer Chemopreventive Agents. Grand Rounds presentation at Ohio State University Cancer Center, Columbus, OH, September 6, 2000.
- Blatt, C.T.T., Chávez, D., Chai, H., Graham, J.G., Cabieses, F., Farnsworth, N.R., Cordell, G.A., Pezzuto, J.M., and Kinghorn, A.D. Activity-Guided Isolation of Cytotoxic Constituents of *Muellera denudata* Bark. 22nd International Symposium on Natural Products Chemistry (IUPAC), São Carlos, Brazil, September 4-8, 2000.
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- Cordell, G.A., Kinghorn, A.D., and Pezzuto, J.M. Recent Studies in Natural Product Chemistry. Indonesia, October 2001.
- Pezzuto, J.M. Importance of Bioassays for the Discovery of Anti-HIV, Anticancer and Antimalaria Drugs. Congress of the Pharmaceutical Federation of South America, Caracas, Venezuela, November 27-December 1, 2001.
- Pezzuto, J.M. Cancer Chemoprevention. Faculty of Pharmacy, University of Central Venezuela, Caracas, Venezuela, November 29, 2001.
- Pezzuto, J.M. Discovery and Characterization of Cancer Chemopreventive Agents. College of Pharmacy, University of Minnesota, Minneapolis, MN, December 11, 2001.
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- Park, E.J. and Pezzuto, J.M. Discovery of Biologically Active Phenolic Substances. Plant Phenolics and Health Research Interest Group, FASEB, New Orleans, LA, April 20, 2002 (Keynote Address).
- Koch, A., Tamez, P., Mathenge, S., Pezzuto, J.M., and Soejarto, D.D. Evaluation of anti-malarial plant remedies used by the Maasai of Kenya. 43rd Annual Meeting of the Society for Economic Botany, The New York Botanical Garden, June 22-27, 2002.
- Cuendet, M., Lantvit, D.D., McChesney, J.D., Helson, L., and Pezzuto, J.M. Antitumor activity of bruceantin: An old drug with new promise. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Zhang, H.J., Tan, G.T., Hoang, V.D., Hung, N.V., Cuong, N.M., Thao, D.T., Soejarto, D.D., Pezzuto, J.M., and Fong, H.H.S. Natural anti-HIV constituents from *Litsea verticillata*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.

- Su, B.-N., Park, E.J., Vigo, J.S., Graham, J.G., Cabieses, F., Santarsiero, B.D., Mesecar, A.D., Fong, H.H.S., Farnsworth, N.R., Pezzuto, J.M., and Kinghorn, A.D. Activity-guided isolation and cancer chemopreventive potential of unusual C-18 norwithanolides with a new type of carbon skeleton from *Solanum altissimum*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Gu, J.-Q., Park, E.J., Vigo, J.S., Graham, J.G., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Constituents of *Renalmia nicolaioides* with the potential to induce the phase II enzyme, quinone reductase. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
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- Hwang, B.Y., Chai, H.-B., Kardono, L.B.S., Riswan, S., Farnsworth, N.R., Cordell, G.A. Pezzuto, J.M., and Kinghorn, A.D. Cytotoxic triterpenes from the twigs of *Celtis philippinensis*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Gu, J.-Q., Park, E.J., Totura, S., Riswan, S., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Constituents of the twigs of *Hernandia ovigera* that inhibit the transformation of JB6 murine epidermal cells. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Jang, D.S., Cuendet, M., Hawthorne, M.E., Kawanishi, K., Kardono, L.B.S., Fong, H.H.S., Mehta, R.G., Pezzuto, J.M., and Kinghorn, A.D. Prenylated flavonoids of the leaves of *Macaranga conifera* with cyclooxygenase (COX-2) inhibitory activity. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Jang, D.S., Park, E.J., Hawthorne, M.E., Vigo, J.S., Graham, J.G., Cabieses, F., Santarsiero, B.D., Mesecar, A.D., Fong, H.H.S., Mehta, R.G., Pezzuto, J.M., and Kinghorn, A.D. Constituents of *Musa sapientum* (banana) with the potential to induce the phase II enzyme, quinone reductase. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Su, B.-N., Park, E.J., Mbwambo, Z.H., Santarsiero, B.D., Mesecar, A.D., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Chemical constituents of *Euphorbia quinquecostata* and absolute configuration assignment by a Mosher ester procedure conveniently carried out in a NMR tube. 43rd Annual

Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.

- Zhang, H.-J., Tamez, P.A., Hashimoto, K., Nakata, M., Aydogmus, Z., Tan, G.T., Hung, N.V., Xuan, L.T., Cuong, N.M., Soejarto, D.D., Pezzuto, J.M., and Fong, H.H.S. Isolation of potent antimalarial trichothecenes from *Ficus fistulosa* and *Rhaphidophora decursiva*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Park, E.J., Tan, Y., Su, B., Yu, R., Kosmeder II, J.W., Kinghorn, A.D., and Pezzuto, J.M. Development of high throughput screening assays for inducers of the antioxidant and xenobiotic response elements. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Seo, E.-K., Kim, N.-C., Mi, Q., Chai, H., Navarro, H.A., Burgess, J.P., Mukherjee, R., Tan, G.T., Farnsworth, N.R., Pezzuto, J.M., Kinghorn, A.D., Wani, M.C., and Wall, M.E. New benzophenone and phloroglucinol derivatives from *Rhedia brasiliensis*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Chen, S.-N., Burdette, J.E., Xu, H.-Y., Lu, Z.-Z., Zhang, H., Fabricant, D.S., Constantinou, A.I., Bolton, J.L., Pezzuto, J.M., Fong, H.H.S., and Farnsworth, N.R. Cimidifugates A-D, novel dilignan phenolic acid esters from the rhizomes of *Cimicifuga racemosa*. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Chadwick, L.R., Chen, S.-N., Burdette, J.E., Bolton, J.L., Pezzuto, J.M., Nikolic, D., Sun, Y., van Breemen, R.B., Fong, H.H.S., and Farnsworth, N.R. Chemical and pharmacological standardization of hops. Part I: Isolation and characterization of estrogenic constituents. 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Plocher, J., Best, K., Cuendet, M., Chai, K.-H., Kang, Y.H., Park, E.J., Gills, J., Pezzuto, J., Knight, C., Smith, M.A.L., and Seigler, D.S. Bioactive components from purple chokeberry (*Aronia prunifolia*) and American elderberry (*Sambucus Canadensis*). 43rd Annual Meeting of the American Association of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
- Kosmeder II, J.W., Hirschelman, W.H., Song, L.S., Park, E.J., Tan, Y., Yu, R., Hawthorne, M., Mehta, R.G., Grubbs, C.J., Lubet, R.A., Moriarty, R.M., and Pezzuto, J.M. Cancer chemopreventive activity of oxomate, a monofunctional inducer of Phase II detoxification enzymes. 224th American Chemical Society National Meeting, Boston, Massachusetts, August 18-22, 2002.
- Hirschelman, W.H., Kosmeder II, J.W., Song, L.S., Park, E.J., Moriarty, R.M., and Pezzuto, J.M. Design and lead optimization of oxomate, a novel phase II enzyme inducer. 224th American Chemical Society National Meeting, Boston, Massachusetts, August 18-22, 2002.
- Pezzuto, J.M. Discovery and characterization of novel natural cancer chemopreventive agents. 224th American Chemical Society National Meeting, Boston, Massachusetts, August 18-22, 2002.
- Pezzuto, J.M. Discovery and characterization of novel natural cancer chemopreventive agents. American Association for Cancer Research Frontiers in Cancer Prevention Research Meeting, Boston, Massachusetts, October 14-18, 2002.

- Kang, Y.-H., Gu, J., Tan, Y., Yu, R., Kinghorn, A.D., and Pezzuto, J.M. Induction of antioxidant response element by withanolides isolated from *Physalis philadelphica* American Association for Cancer Research Frontiers in Cancer Prevention Research Meeting, Boston, Massachusetts, October 14-18, 2002.
- Pezzuto, J.M. Invited Speaker, "Discovery and Characterization of Natural Product Cancer Chemoprevention Agents", Spring Corporate Affiliates Meeting, Botanicals Center for Age Related Diseases with an Emphasis on Polyphenols, 2003 Purdue-UAB Symposium, Department of Foods and Nutrition, Purdue University, February 28, 2003.
- Pezzuto, J.M. Invited Speaker, "Novel Pharmacological Targets for Medicinal Plant Research", International Symposium of the Society for Medicinal Plant Research, Bad Camberg/Taunus, Germany, April 8, 2003.
- Tan, Y. and Pezzuto, J.M. Mitochondrial Events in Programmed Cell Death Modulated by Betulinic Acid in Human Melanoma Cells. *Proc. Am. Assoc. Cancer Res.* **44**: 146, 2003.
- Gills, J.J., Jeffery, E.H., Moon, R.C., Lantvit, D.D., and Pezzuto, J.M. Effects of Sulforaphane on UVB-Induced Skin Carcinogenesis. *Am. Assoc. Cancer Res.* **44**: 223, 2003.
- Cuendet, M., Ojima, I., and Pezzuto, J.M. Mechanism of the Second-Generation Taxoid-Induced Apoptosis in KB Cells. *Am. Assoc. Cancer Res.* **44**: 606, 2003.
- Cuendet, M., Christov, K.T., Lantvit, D.D., McChesney, J.D., and Pezzuto, J.M. Bruceantin-Induced Apoptosis *In Vitro* and *In Vivo* in a Multiple Myeloma Model. *Am. Assoc. Cancer Res.* **44**: 1057, 2003.
- Choi, J.K., Pawlus, A.D., Su, B.-N., Jang, D.S., Murillo, G., Pezzuto, J.M., Kinghorn, A.D., and Mehta, R.G. Efficacy of Potential Chemopreventive Agents of Plant Origin in Colon Carcinogenesis. *Am. Assoc. Cancer Res.* **44**: 1097, 2003.
- Burdette, J.E., Liu, J., Piersen, C., Chen, S.-N., Lu, Z.-Z., Fabricant, D.S., Barker, E., Pezzuto, J., Farnsworth, N.R., and Bolton, J.L. *Cimicifuga racemosa* as a Serotonin Receptor Agonist: A Potential Mechanism for the Treatment of Menopausal Hot Flashes Without Estrogenic Effects. *Am. Assoc. Cancer Res.* **44**: 1506, 2003.
- Carcache-Blanco, E.J., Kang, Y.H., Park, E.J., Su, B.-N., Kardono, L.B.S., Riswan, S., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Constituents of the Stem Bark of *Pongamia pinnata* with the Potential to Induce Quinone Reductase. 44th Annual Meeting of the American Association of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
- Jang, D.S., Cuendet, M., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Constituents of *Asparagus officinalis* (Asparagus) with Inhibitory Activity Against Cyclooxygenase-2. 44th Annual Meeting of the American Association of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
- Su, B.-N., Kang, Y.-H., Pinos, R.E., Santarsiero, B.D., Mesecar, A.D., Soejarto, D.D., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Isolation and Absolute Stereochemistry of Coussaric Acid, a New Bioactive Triterpenoid from the Stems of *Coussarea brevicaulis*. 44th Annual Meeting of the American Association of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.

- Su, B.-N., Cuendet, M., Kardono, L.B.S., Riswan, S., Fong, H.H.S., Pezzuto, J.M., and Kinghorn, A.D. Constituents of the Stems of *Macrocculus pomiferus* and the Evaluation of their Inhibitory Activity Against Both Cyclooxygenases-1 and 2. 44th Annual Meeting of the American Association of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
- Pawlus, A.D, Choi, J.K., Chai, K.H, Kang, Y.H., Farnsworth, N.R., Pezzuto, J.M., Mehta, R.G., and Kinghorn, A.D. Potential Cancer Chemopreventive Agents from *Aglaia ponapensis*. 44th Annual Meeting of the American Association of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
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