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EDUCATION AND WORK EXPERIENCE

United States Army	4/72 to 4/74 Honorable Discharge
University of Minnesota	9/74 to 5/78 B.A. (Chemistry)
University of Arizona	9/78 to 12/81 M.S., Ph.D. (Organic Chemistry)
*Ph.D. Thesis entitled "Structural Elucidation of Antitumor Agents from Plants"	
Suntory Inst. for Bioorganic Research (Japan)	1/82 to 1/83 Post-doctoral Fellow (Natural Products)
Columbia University	1/83 to 8/83 Post-doctoral Fellow (Natural Products)
University of Missouri	9/83 to 9/90 Assistant Professor (Organic Chemistry)
Shaman Pharmaceuticals, Inc.	3/90 to 12/94 Vice President, Sr. VP, CSO, Co-Founder
Larex, Inc.	3/95 to 1/97 Chief Scientific Officer
Pharmaprint, Inc.	3/97 to 1/99, Senior Vice President, R; R&D
Health Enhancement Products, Inc.	6/05 to 11/05, President
Technology Funding	12/96 to 6/06, Independent General Partner
Nat Prod Consulting Services	1/95 to present, President & Founder
Phenolics, LLC	11/01 to present, Managing Partner & Founder
IOCD/OCDI	2/05 to present, Treasurer

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science, American Chemical Society, American Society of Pharmacognosy, International Union of Pure and Applied Chemistry, Phytochemical Society of Europe, Sigma Xi, Phytochemical Society of North America.

PROFESSIONAL SERVICE

American Chemical Society (Missouri Chapter) Treasurer and Secretary: 1988; 1989

American Society of Pharmacognosy (ASP) Awards and Funds Committee Member: 1989 to 1994

American Society of Pharmacognosy (ASP) Regional Executive Committee Member: 1998 to 2006

Associate Editor: *International Journal of Pharmacognosy* (Formerly *Int. J. Crude Drug Research*), 1988 to 1995

Director: Analytical Service Center, IOCD (International Organization for Chemical Development, Dr. Jean-Marie Lehn, President), 1985-1994

Editorial Board Member: *Phytomedicine* 1995-97

Grant Proposal Reviewer: National Science Foundation, National Cancer Institute (ad hoc panel member; special panel member), American Chemical Society-Petroleum Research Fund, PSC-CUNY Research Award Program, International Foundation for Science.

Journal Referee: *Canadian Journal of Chemistry*, *Journal of the American Chemical Society*, *International Journal of Pharmacognosy*, *Journal of Natural Products*, *Journal of Organic Chemistry*, *Planta Medica*, *Science*, *Tetrahedron*, *Tetrahedron Letters*.

Member: Plant Sciences Working Group-International Organization for Chemistry in Development (IOCD), 1989-1997; Biotic Exploration Group-IOCD, 1997-2006; IOCD Affiliate 1983-2006.

Treasurer, Executive Committee Member: IOCD and OCDI, 2005-present.

REFEREED JOURNAL ARTICLES

[including BOOK CHAPTERS/PATENTS/PUBLISHED ABSTRACTS/PAPERS (1982-2006)]

Cytotoxic Agent from *Penstemon deustus* (Scrophulariaceae): Isolation and Stereochemistry of Liriodendrin, A

Symmetrically Substituted Furofuranoid Lignan Diglucoside. Shivanand D. Jolad, Joseph J. Hoffmann, Jack R. Cole, Michael S. Tempesta and Robert B. Bates. *J. Org. Chem.* **1980**, *45*, 1327-1329.

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Structures of Zeylenol and Zeylena, Constituents of *Uvaria zeylanica* (Annonaceae). Shivanand D. Jolad, Joseph J. Hoffmann, Jack R. Cole, Michael S. Tempesta and Robert B. Bates. *J. Org. Chem.* **1981**, *46*, 4267-4272.

Constituents of *Eremocarpus setigerus* (Euphorbiaceae). A New Diterpene, Eremone, and Hautriwaic Acid. Shivanand D. Jolad, Joseph J. Hoffmann, Karl H. Schram, Michael S. Tempesta and Robert B. Bates. *J. Org. Chem.* **1982**, *47*, 1356-1358.

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An NMR Spectroscopic Study of Anadirachtin and its Trimethyl Ether. Christopher J. Turner, Richard B. Taylor, Michael S. Tempesta, Michael G. Zagorski, Min S. Lee, Koji Nakanishi, Takashi Iwashita, Michael L. Gross and Kenneth B. Tomer. *J. Am. Chem. Soc.* **1987**, 109, 1144-1150.

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