CURRICULUM VITAE Michael Jeffrey Balick

THE NEW YORK BOTANICAL GARDEN 2900 Southern Blvd. Bronx, New York 10458 USA Tel. 718-817-8763

e-mail: Mbalick@nybg.org

PROFESSIONAL POSITIONS

1980-present	Vice President for Botanical Science, Director and Senior Philecology Curator, Institute of Economic Botany (2007-present); Vice President & Chair, Research and Training, Director and Philecology Curator, Institute of Economic Botany (2000-2007); Associate Vice President & Chair, Research and Training (1999-2000); Director, Institute of Economic Botany (1990-present); Philecology Curator of Economic Botany (1989-present); Acting Director, Institute of Economic Botany (1988-1990); Executive Assistant to the President (1980-1989); Assistant Director, Institute of Economic Botany (1984-1988); Curator (1990-1998); Senior Curator (1998-present); Associate Curator (1988-1990); Assistant Curator, Herbarium (1980-1988), The New York Botanical Garden		
2016-present	Faculty, Integrative Medicine Fellowship Program, University of Arizona, Andrew Weil Center for Integrative Medicine.		
1997-present	Adjunct Professor of Ecology, Evolution and Environmental Biology, Columbia University in the City of New York.		
1982-present	Adjunct Professor, Department of Plant Sciences, City University of New York.		
2008-present	Adjunct Professor, Department of Biology, Fordham University		
2013-2015	Associate, Harvard University Herbaria		
2002-present	Research Associate, National Tropical Botanical Garden, Kalaheo, Kauai, Hawaii		
1997-2003	Adjunct Visiting Professor, New York University, Department of Biology.		
1983-2004	Adjunct Professor, School of Forestry and Environmental Studies, Yale University (1992-2004); lecturer in Tropical Studies (1983-1992).		
1999	Visiting Scholar, Green College [now Green Templeton College], University of Oxford, UK (summer).		
1990-1995	Honorary Research Associate, La Salle Foundation, Caracas, Venezuela.		
1980-1986	Research Associate in Plant Domestication, Botanical Museum of Harvard University.		
1979	Research Assistant, Agribusiness Associates, Inc., Wellesley Hills, Massachusetts (summer).		

1977	Curatorial Assistant, Economic Herbarium of Oakes Ames, Botanical Museum
	of Harvard University.
1975	Research Fellow in Tropical Horticulture and Economic Botany, Las Cruces
	Tropical Botanical Garden, Costa Rica. Sponsored by The Organization for
	Tropical Studies.
1974	Intern, The Henry Foundation for Botanical Research, Gladwyne,
	Pennsylvania (summer).
1970	Intern, Winterthur Gardens, Winterthur, Delaware (summer).

UNIVERSITY EDUCATION

1976-1980	Harvard University, Ph.D. in Biology; Harvard Graduate School of Business
	(3 semesters of course work); Certificate, Harvard Introduction to Business
	Program for Ph.D.'s; course work also taken at Harvard School of Public
	Health.
1975-1976	Harvard University, A.M. in Biology.
1972-1973	Tel Aviv University, Junior Year Abroad Program in Biology and Humanities.
1970-1975	University of Delaware, B.Sc. with Honors in Agriculture and Plant Science.

WIKIPEDIA SITE: https://en.wikipedia.org/wiki/Michael Jeffrey Balick

FIELDWORK AND RESEARCH EXPERIENCE

2019	Melanesia: Vanuatu: Ethnobotany and Floristics (August)
2019	Micronesia: Palau: Ethnobotany (March-April)
2018	Melanesia: Vanuatu: Ethnobotany and Floristics (November-December)
2018	Melanesia: Vanuatu: Ethnobotany and Floristics (August)
2018	Micronesia: Palau: Ethnobotany (March)
2017	Melanesia: Vanuatu: Ethnobotany and Floristics (November-December)
2017	Melanesia: Vanuatu: Ethnobotany and Floristics (July-August)
2017	Micronesia: Palau: Ethnobotany (January-February)
2016	Melanesia: Vanuatu: Ethnobotany and Floristics (November-December)
2016	Melanesia: Vanuatu: Ethnobotany and Floristics (April)
2015	Melanesia: Vanuatu: Ethnobotany and Floristics (November-December)
2015	Jordan: Ethnobotany (September)
2015	Melanesia: Vanuatu: Ethnobotany and Floristics (March)
2014	Micronesia: Palau: Ethnobotany (November)
2014	Melanesia: Vanuatu: Ethnobotany and Floristics (June)
2013	Micronesia: Palau: Floristics (November)
2013	Melanesia: Vanuatu: Ethnobotany and Floristics (September-October)
2013	Melanesia: Vanuatu: Ethnobotany and Floristics (February-March)
2012	Micronesia: Palau: Ethnomedical Studies (September-October, November)

2012	Micronesia: Palau: Ethnomedical Studies (March-April)
2011	Micronesia: Pohnpei: NSF-Sponsored Conservation Workshop (September)
2011	Micronesia: Palau: Ethnomedical Studies (September)
2011	Micronesia: Palau: Ethnomedical Studies (June)
2010	Micronesia: Palau: Ethnomedical Studies (October - November)
2010	Costa Rica: Studies of Medicinal Plants (February)
2009	Micronesia: Pohnpei: Ethnobotany and Floristics (February-March)
2008	Micronesia: Palau: Ethnobotany and Floristics (July-August)
2008	Micronesia: Palau: Ethnobotany and Floristics (January)
2007	Micronesia: Pohnpei: Ethnobotany and Floristics (November-December)
2007	Micronesia: Palau: Ethnobotany and Floristics (July-August)
2006	Micronesia: Palau, Yap, Pohnpei: Ethnobotany and Floristics (August-
2000	September)
2006	Micronesia: Kosrae, Pohnpei: Ethnobotany and Floristics (May-June)
2005	Micronesia: Palau, Pohnpei: Ethnobotany and Floristics (October)
2005	Micronesia: Kosrae, Pohnpei, Palau: Ethnobotany and Floristics (January-
2003	February)
2005	Belize: Ethnobotany and Floristics (September)
2004	Micronesia: Pohnpei. Ethnobotany and Floristics (August)
2003	Belize: Ethnobotany (January)
2003	Micronesia: Pohnpei. Ethnobotany and Floristics (August)
2002	Micronesia: Pohnpei, Pingelap, Mokil: Ethnobotany and Floristics (August)
2002	Micronesia: Palau, Pohnpei: Ethnobotany and Floristics (August)
2001	Belize: Ethnobotanical Studies (March)
2000	Micronesia: Kosrae, Pohnpei: Ethnobotany and Floristics (August-September)
1999	Micronesia: Kosrae, Pohnpei: Ethnobotany and Floristics (August-September)
1998	Micronesia: Guam, Palau, Kosrae, Pohnpei: Ethnobotany and Floristics
1990	(August-September)
1998	China: Traditional Healing (July)
1998	Micronesia: Ethnobotany and Floristics (August-September)
1997	Brazil: Maranhão. Studies of the Babassu Palm (November)
1997	Belize: Ethnobotanical Studies (May)
1997	Sri Lanka: Ayurvedic Medicinal Plants (January)
1996	Sri Lanka: Ayurvedic Medicinal Plants (November) Brazil: Maranhão. Studies of the Babassu Palm
1996	
1995	Belize: Ethnobotanical Studies (July)
1995	India: Ayurvedic Medicinal Plants, Pune (January)
1995	Belize: Ethnobotanical Studies (May)
1994	Belize: Punta Gorda, Kekchi Ethnobotanical Studies (November-December)
1994	India: Ayurvedic Medicinal)Plants, Kerala (February-March)
1994	Belize: Video Archival Project (June)
1994	Belize: Ethnobotanical Studies (April)
1993	Brazil: Maranhão, Tocantins. Studies of <i>Orbignya</i> palms (November-
1002	December)
1993	Belize: Punta Gorda. Kekchi ethnobotanical studies (March-April)
1992	Belize: Cayo District. Ethnobotanical Studies (September)

1992	Thailand: Northern Provinces. Ethnobotanical Studies (December)
1992	Belize: Cayo and Corozal Districts. Ethnobotanical Studies (March)
1991	Belize: Cayo District. Forest Inventory of Native Species Used as Medicinal Plants (May)
1990	Belize: Stann Creek. Ethnobotanical Studies in the Cockscomb Jaguar Preserve (May)
1990	Belize: Cayo District. Valuation of Tropical Forest as a Source of Medicinal Plants (August)
1990	Brazil: Maranhão, Goiás, Minas Gerais. Systematic Studies and Germplasm Collection of <i>Orbignya</i> (October)
1990	Belize: Cayo District. Ethnobotanical Studies, Medicinal Plants, Dooryard Gardens. Toledo District, Dolores Estate. Conservation assessment (January-February)
1989	Brazil: Maranhão. Studies of <i>Orbignya</i> palms and their utilization (December)
1989	Belize: Corozal and Orangewalk Districts. Ethnobotanical Studies (November)
1989	Belize: Cayo District, Vaca Plateau. Ethnobotanical Studies; Botanical Inventory (July-August)
1989	Haiti: Conservation Biology and Taxonomy of the Endangered Palm <i>Attalea</i> crassipatha (May-July)
1989	Belize: Caye Caulker, Ambergris Caye. Ethnobotanical Studies, Collection of Plant Samples for National Cancer Institute Screening Program (January-February)
1988	Brazil: Goiás, Matto Grosso. Studies of Brazilian Palms (November)
1988	Belize: Cayo. Ethnobotanical Studies in Cayo; Collection of Plant Samples for National Cancer Institute Screening Program (June)
1987	Belize: Cayo. Ethnobotanical Studies Among the Mopan, Maya Indians. Collection of <i>Orbignya cohune</i> germ plasm; collection of plant samples for National Cancer Institute screening program (July-November)
1987	Honduras: Colón, Atlantida, Comayagua. Collection of <i>Orbignya cohune</i> germ plasm; collection of plant samples for National Cancer Institute screening program (July)
1986	Brazil: Piauí, Goiás, Minas Gerais. Biological and Domestication Studies of <i>Orbignya</i> (January-February)
1985	Colombia: Chocó. Agroforestry Practices with Jessenia bataua
1984	Brazil: Goiás, Minas Gerais. Biological and Domestication Studies of <i>Orbignya</i> (October)
1983	Brazil: Ethnobotany of the Apinayé and Guajajara, and their Utilization of <i>Orbignya</i> (August-September)
1983	Mexico: Studies of the Distribution and Utilization of <i>Orbignya</i> spp., an Oil Yielding Group of Palms (March)
1981	Jamaica: Economic and Botanical Studies Concerning the Use of New Crops in Regional Development (August-September)
1981	Brazil: Pará, Goiás, Piauí, Maranhão. Biological and Domestication Studies of <i>Orbignya</i> (November-December)
1980	Bolivia: Biological and Domestication Studies of <i>Orbignya phalerata</i> (July-August)

1980	Venezuela: Identifying Sites for a Palm Germ Plasm Bank in the Orinoco
	Valley (July)
1980	England: Studies in Herbaria and Botanical Institutes (January)
1978	European Botanical Centers: Amsterdam, Leiden, Utrecht (Holland); West
	Berlin (Federal Republic of Germany) (August)
1978	Israel: Studies of Plant-Insect Interaction (August-September)
1977-1978	Amazonian Regions of Brazil, Peru, Ecuador, Colombia, Venezuela and Areas
	of Trinidad: Biological Studies of Palms and Other Useful Plants (October-
	May)
1976	The Northwest Amazon Valley and Llanos Regions of Colombia: Biological
	Studies of Palms and Other Useful Plants (July-September)
1976	Mexico: Studies of Fern-Anthropod Interaction (April)
1975	Costa Rica: Aspects of Tropical Slash and Burn Agriculture and Horticulture
	(February-July)
1973	Cultivation and Propagation of Native American Plants (June-August)
1972-1973	Israel: Floristic and Ethnobotanical Studies of All Major Phytogeographic
	Regions (August, 1972-July, 1973)

PRINCIPAL INVESTIGATOR, CO-INVESTIGATOR, RESEARCH GRANTS & CONTRACTS

2023-2025	Nia Tero: Forest Guardianship in Vanuatu.(Co-PI with	
	G.M. Plunkett, PI)	\$140,000
2023-2025	Marisla Foundation: Ethnobotany and Floristics of Vanuatu.	\$60,000
2022-2024	National Science Foundation: Capacity: Biological Collections:	
	Securing and Sharing Biocultural Diversity Collections at The New	
	York Botanical Garden. (Co-PI with Matthew Pace)	\$424,728.
2022-2023	National Science Foundation: Collaborative Research: Plant and Funga	.1
	Diversity of Tafea Province, Vanuatu, A Threatened Pacific Hotspot	
	Supplement (PI with G.M. Plunkett)	\$109,939
2021-2024	Velux Stiftung: Daylight, Culture and Plants in two Pacific Island	
	Societies (PI with K. D. Harrison and G.M.Plunkett, Co-PI)	\$216,722
2020-2023	Franklinia Foundation: Conserving Vanuatu's Only Currently Known	
	Critically Endangered Tree Species, with a Roadmap to Conserving	
	Vanuatu's Poorly Understood Tree Flora (G.M.Plunkett, PI)	\$253,280
2019-2023	Marisla Foundation: Ethnobotany and Floristics of Southern Vanuatu,	
	Tafea Province	\$80,000
2019-2020	Christensen Fund: Ethnobotany and Floristics of Southern Vanuatu,	
	Tafea Province (Co-PI with G.M. Plunkett)	\$37,000
2018-2020	Christensen Fund: Ethnobotany and Floristics of Southern Vanuatu,	
	Tafea Province (Co-PI with GM. Plunkett)	\$100,000
2018-2019	Gildea Foundation: Belize Bush Medicine Camp and Plants and	
	People of Vanuatu Project	\$20,000
2018-2019	Marisla Foundation: Ethnobotany and Conservation in Palau	\$80,000

2016-2017 2016-2021	Marisla Foundation: Ethnobotany and Conservation in Palau National Science Foundation: Collaborative Research: Plant and Fungal Diversity of Tafea Province, Vanuatu, A Threatened Pacific Hotspot	\$100,000
2016	(PI with G.M. Plunkett Co-PI) Gildea Foundation: Belize Bush Medicine Camp	\$1,294,759 \$12,000
2015	Gildea Foundation: Belize Bush Medicine Camp and Ethnobotanical Studies in Palau	\$22,000
2014-2017	National Institutes of Health: <i>In Silico</i> identification of Phytotherapies (Co-PI with W. Law, PI)	\$348,876
2014-2016	Critical Ecosystems Partnership Fund: Plants and People: Baseline Floristic and Ethnobotanical Surveys in Tafea Province Vanuatu	·
2014-2017	(#64251)(Co-PI with G.M. Plunkett) Christensen Fund: Ethnobotany and Floristics of Southern Vanuatu, Tafea Province (Co-PI with G.M. Plunkett)	\$156,849 \$120,000
2013-2015	Marisla Foundation: Ethnobotany and Conservation in Palau	\$120,000
2012-2014	Christensen Fund: Ethnobotanical research and Conservation in	\$80,000
2012-2014	Southern Vanuatu (Co-PI with G.M. Plunkett)	φου,σου
2012-2013	National Geographic Society: Towards an Annotated Plant Checklist of The Republic of Palau	\$22,240
2011-2013	Marisla Foundation. Ethnobotany and Conservation in the Federated States of Micronesia and Palau	\$100,000
2012-2013	Gildea Foundation: Preparation and Publication of a Primary Health Care Manual for Palau	\$30,000
2010-2011	National Geographic Society: Floristic and ethnobotanical exploration in the Republic of Palau: The traditional villages of Ibobang and Oikull and the Rock Islands region	\$18,500
2011	Aetna Foundation: Improving Healthcare for Underserved Immigrant Latino Communities in New York City	\$25,000
2010–2011	United Hospital Fund: Cultural Competency Training for Health Care Professionals in Latino Ethnomedical Systems in New York City	\$50,000
2009-2012	United States Department of Agriculture: Enhancing Plant Science Education in the Bronx: Training the Next Generation of Botanists to Protect U.S. Natural Resources (Co-PI: NYBG subcontract from Lehman College/CUNY)	\$54,514
2009-2012	V. Kann Rasmussen Foundation. Biodiversity and Human Health in Micronesia	\$450,000
2009-2010	Germeshausen Foundation. Biodiversity and Human Health in Micronesia	\$50,000
2009-2011	Marisla Foundation. Ethnobotany and Conservation in the Federated States of Micronesia	\$100,000
2008-2012	The National Science Foundation. A Biodiversity Survey of Pohnpei and Kosrae Islands, Federated States of Micronesia; Understanding the Impact of Anthropogenic Disturbance on Plant, Fungal, and Stream Biodiversity (Co-PI with W. Law)	\$399,500

2008-2009	Marisla Foundation. Ethnobotany and Conservation in the Federated States of Micronesia	\$60,000
2007-2009	The Jacob and Valeria Langeloth Foundation. Dominican Ethnomedicine and Culturally Effective Health Care in New York City	\$238,421
2006-2008	V. Kann Rasmussen Foundation. Biodiversity and Human Health in Micronesia	\$750,000
2005-2007	MetLife Foundation. Implications for Healthy Aging-Phase II	\$30,000
2005-2007	Marisla Foundation. Ethnobotany and Conservation in the Federated States of Micronesia	\$60,000
2005-2009	National Institutes of Health/National Center for Complementary and Alternative Medicine. Dominican Herbal Medicine: Plants Used for Inflammation	\$549,223
2004-2005	MetLife Foundation. Implications for Healthy Aging	\$30,000
2004	Gildea Foundation. Micronesia Ethnobotany Project	\$35,000
2004	The New York Community Trust. Dominican Ethnomedicine and Culturally Effective Health Care in New York City	\$45,000
2004	United Hospital Fund. Dominican Ethnomedicine and Culturally Effective Health Care in New York City	\$50,000
2004	Homeland Foundation. Ethnobotany and Conservation in the Federated States of Micronesia	\$30,000
2002	Gildea Foundation: Micronesia Ethnobotany Project	\$40,000
2002	Homeland Foundation: Ethnobotany and Conservation in the Federated States of Micronesia	\$25,000
2002-2003	Metropolitan Life Foundation: Studies of Traditional Medicine and Health	\$100,000
2001-2003	The Educational Foundation of America: Herbal Therapies for Women's Health	\$120,000
2001-2003	The Overbrook Foundation: Ethnobotany and Conservation in the Federated States of Micronesia: An Integrative Approach to Understanding, Preserving, Utilizing and Teaching Traditional Knowledge in the Pacific Region	\$150,000
2001-2003	Merck & Co., Inc. Merck Research Laboratories: Plant Collection and Extraction Project (Dennis Stevenson Co-PI)	\$1,721,906
2000-2002	Gildea Foundation, Inc.: Micronesia Ethnobotany Project	\$45,000
2000	Center for Environmental Research and Conservation, Columbia University: Understanding Traditional Plant Use on Pohnpei: Impacts on Habitat Destruction, Biodiversity Loss, and Conservation	\$ 16,828
	Potential	
2000	Gildea Foundation, Inc.: Ethnobotany of Micronesia	\$20,000
1999	Nature's Herbs, Twin Laboratories. Herbal Interventions for	\$10,000
	Women's Health Issues in the Urban Environment	
1999-2001	Edward John Noble Foundation, Inc.: Support of the Use of Ethnobotanical and Ethnoecological Techniques for Monitoring	\$133,032
1998-2001	Changes in Northeast Brazil The Overbrook Foundation: Support for Ethnobotany of Micronesia	\$50,000

1998 Nu Skin International, Inc.: Support for Local Community Development Project in Brazil		Project	
1998-1999 Pfizer Înc.: Collection and Extraction Research Plans and Budgets \$250,000 1998-2000 Merck & Co., Inc. Merck Research Laboratories: Plant Collection and Extraction Project (Dennis Stevenson, Co-PI) \$1,576,250 1998 Gildea Foundation: Support for Micronesia and Belize Projects \$40,000 1997-1999 Edward John Noble Foundation: Linking Sustainable Utilization and Conservation of Plant Resources in Belize \$40,000 1996 Gildea Foundation: Support of Micronesia and Belize Projects \$40,000 1996 Man & The Biosphere Tropical Ecosystems Directorate: Support of Tri-National Activities in Central American Ethnobotany \$5,000 1996 National Geographic Society: Ethnobotany in the Urban Environment: Alternative Therapies for Women \$11,000 1996 Nu Skin International: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems: A Pilot Study \$5,000 1996-1998 NYBG/Pfizer Phytochemical Survey: Plant Collection & Extraction Program \$899,710 1995-1997 Merck Research Laboratories: Collections & Extractions \$1,306,216 1995-1997 Center for Environmental Research and Conservation, Columbia University: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems \$20,000 1993-1996 Ed	1998	Nu Skin International, Inc.: Support for Local Community	\$29,700
and Extraction Project (Dennis Stevenson, Co-PI) Gildea Foundation: Support for Micronesia and Belize Projects Edward John Noble Foundation: Linking Sustainable Utilization and Conservation of Plant Resources in Belize 1997 Gildea Foundation: Support of Micronesia and Belize Projects S40,000 1996 Gildea Foundation: Support of Micronesia and Belize Projects S20,000 1996 Man & The Biosphere Tropical Ecosystems Directorate: Support of Tri-National Activities in Central American Ethnobotany 1996 National Geographic Society: Ethnobotany in the Urban Environment: Alternative Therapies for Women 1996 Nu Skin International: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems: A Pilot Study 1996-1998 NYBG/Pfizer Phytochemical Survey: Plant Collection & Extraction Program 1995 Gildea Foundation: Belize Video Project Merck Research Laboratories: Collections & Extractions University: Ethnobotanical Studies in the Urban Exposed University: Ethnobotanical Studies in the Urban Exposed University: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems 1994-1996 Edward John Noble Foundation: Ethnobotanical Studies in Brazil Pipas-1996 Rockefeller Foundation: Project to Stimulate the Development of Local Capabilities in Neotropical Economic Botany 1993-1996 Metropolitan Life Insurance Foundation: Botany Merck, Inc.: Natural Products Research Program Project Merck, Inc.: Natural Products Research Program Postanical Resources in Belize Posta	1998-1999	ı v	\$250,000
1998 Gildea Foundation: Support for Micronesia and Belize Projects \$40,000 1997-1999 Edward John Noble Foundation: Linking Sustainable Utilization and \$60,000 Conservation of Plant Resources in Belize 1997 Gildea Foundation: Support of Micronesia and Belize Projects \$40,000 1996 Gildea Foundation: Support of Micronesia and Belize Projects \$20,000 1996 Man & The Biosphere Tropical Ecosystems Directorate: Support of \$5,000 Tri-National Activities in Central American Ethnobotany 1996 National Geographic Society: Ethnobotany in the Urban \$11,000 Environment: Alternative Therapies for Women 1996 Nu Skin International: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems: A Pilot Study 1996-1998 NYBG/Pfizer Phytochemical Survey: Plant Collection & Extraction \$899,710 Program 1995 Gildea Foundation: Belize Video Project \$10,000 1995-1997 Merck Research Laboratories: Collections & Extractions \$1,306,216 1995-1996 Center for Environmental Research and Conservation, Columbia \$20,000 University: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems 1994-1996 Edward John Noble Foundation: Ethnobotanical Studies in Brazil \$90,000 1993-1996 Pfizer Inc.: Survey of the U.S. Flora for Pharmaceutical Products \$2,000,000 1993-1996 Rockefeller Foundation: Project to Stimulate the Development of Local Capabilities in Neotropical Economic Botany Metropolitan Life Insurance Foundation: Natural Products Research 1992-1999 The John D. and Catherine T. MacArthur Foundation: Diversity of \$95,000 1993-1994 Merck, Inc.: Natural Products Research Program \$245,000 1993-1994 Edward John Noble Foundation: Ethnobotanical Studies in Belize, Ecuador and Venezuela 1992 1994 1994 1994 1995 1994 1994 1994 1995 1994 1994 1995 1994 1995 1994 1995 1994 1995 1994 1995 1994 1995 1995 1995 1995 1995 1995 1995 1995	1998-2000		\$1,576,250
Edward John Noble Foundation: Linking Sustainable Utilization and Conservation of Plant Resources in Belize	1008		\$40,000
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1996 Gildea Foundation: Support of Micronesia and Belize Projects Man & The Biosphere Tropical Ecosystems Directorate: Support of \$5,000 Tri-National Activities in Central American Ethnobotany 1996 National Geographic Society: Ethnobotany in the Urban Environment: Alternative Therapies for Women 1996 Nu Skin International: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems: A Pilot Study 1996-1998 NYBG/Pfizer Phytochemical Survey: Plant Collection & Extraction Program Gildea Foundation: Belize Video Project \$10,000 1995-1997 Merck Research Laboratories: Collections & Extractions \$1,306,216 1995-1996 Center for Environmental Research and Conservation, Columbia University: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems 1994-1996 Edward John Noble Foundation: Ethnobotanical Studies in Brazil Edward John Noble Foundation: Ethnobotanical Studies in Brazil Project Inc.: Survey of the U.S. Flora for Pharmaceutical Products \$2,000,000 1993-1996 Rockefeller Foundation: Project to Stimulate the Development of Local Capabilities in Neotropical Economic Botany 1993-1996 Merok, Inc.: Natural Products Research Program \$245,000 1993-1994 Merok, Inc.: Natural Products Research Program \$245,000 1992-1999 The John D. and Catherine T. MacArthur Foundation: Diversity of Botanical Resources in Belize 1992-1994 Edward John Noble Foundation: Ethnobotanical Studies in Belize, Ecuador and Venezuela 1992 New York Community Trust: Support for the Belize Ethnobotany Project 1992-1994 Merck Foundation: Support for the IEB Program, Alternatives to Deforestation 1992-1994 Merck Foundation: Support for the IEB Program, Alternatives to Deforestation		Conservation of Plant Resources in Belize	ŕ
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National Geographic Society: Ethnobotany in the Urban Environment: Alternative Therapies for Women	1996	• • •	\$5,000
Environment: Alternative Therapies for Women Nu Skin International: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems: A Pilot Study 1996-1998 NYBG/Pfizer Phytochemical Survey: Plant Collection & Extraction Program 1995 Gildea Foundation: Belize Video Project \$10,000 1995-1997 Merck Research Laboratories: Collections & Extractions \$1,306,216 1995-1996 Center for Environmental Research and Conservation, Columbia University: Ethnobotanical Studies in the Urban Environment of Therapies for Women's Health Problems 1994-1996 Edward John Noble Foundation: Ethnobotanical Studies in Brazil \$90,000 1993-1996 Pfizer Inc.: Survey of the U.S. Flora for Pharmaceutical Products \$2,000,000 1993-1996 Rockefeller Foundation: Project to Stimulate the Development of \$300,000 1993-1996 Metropolitan Life Insurance Foundation: Natural Products Research in the Tropics 1993-1994 Merck, Inc.: Natural Products Research Program \$245,000 1992-1999 The John D. and Catherine T. MacArthur Foundation: Diversity of \$95,000 Botanical Resources in Belize 1992-1994 Edward John Noble Foundation: Ethnobotanical Studies in Belize, \$100,000 Ecuador and Venezuela 1992 New York Community Trust: Support for the Belize Ethnobotany Project 1992 Joyce Mertz-Gilmore Foundation: Support for the IEB Program, \$20,000 Alternatives to Deforestation 1992-1994 Merck Foundation: Support for the IEB Program, \$20,000 Alternatives to Deforestation 1992-1994 Merck Foundation: Support for the IEB Program, Alternatives to Deforestation	1996	•	\$11,000
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1992-1999 The John D. and Catherine T. MacArthur Foundation: Diversity of Botanical Resources in Belize 1992-1994 Edward John Noble Foundation: Ethnobotanical Studies in Belize, Ecuador and Venezuela 1992 New York Community Trust: Support for the Belize Ethnobotany Project 1992 Joyce Mertz-Gilmore Foundation: Support for the IEB Program, Alternatives to Deforestation 1992-1994 Merck Foundation: Support for the IEB Program, Alternatives to Deforestation \$95,000 \$95,000 \$10,000	1993-1994	±	\$245,000
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New York Community Trust: Support for the Belize Ethnobotany Project 1992 Joyce Mertz-Gilmore Foundation: Support for the IEB Program, Alternatives to Deforestation 1992-1994 Merck Foundation: Support for the IEB Program, Alternatives to Deforestation \$75,000	1002 100 .		Ψ100,000
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Deforestation	1992-1994		\$75,000
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1991-1994 Nathan Cummings Foundation: Support for Ethnopolanical Research Sociolog	1991-1994	Nathan Cummings Foundation: Support for Ethnobotanical Research	\$60,000
in Belize	/ / •		+ = = , = = =
1991-1994 Overbrook Foundation: Support for the Belize Ethnobotany Project \$120,000	1991-1994		\$120,000

1991-1996	National Cancer Institute: Collection of Neotropical Rainforest Plants for Screening for Anti-cancer and Anti-AIDS Activity –NCI-	\$1,264,012
1991-1993	CM-17515-30 (Co-PI; Douglas Daly, PI) Rockefeller Foundation: Stimulating the Development of Local Capabilities in Neotropical Economic Botany – RF900073 #2	\$275,000
1990-1992	U.S. Agency for International Development: Economic and Biological Studies Related to the Development of Extractive Reserves in Ecuador–518-0780-G-00-0247-00	\$108,680
1990-1992	Edward John Noble Foundation: Ethnobotanical Studies in South America	\$50,000
1990-1992	Rex Foundation: Support for the Belize Ethnobotany Project	\$15,000
1990-1991	Joyce Mertz-Gilmore Foundation: Preparation of a Flora on the Palms of Brazilian Amazonia and Their Uses	\$20,000
1989-1993	Metropolitan Life Insurance Foundation: Tropical Plans as Potential Sources of Anti-AIDS Compounds	\$150,000
1989-1992	U.S. Agency for International Development: Application of a Novel Method for Selection and Domestication of Indigenous Plants Among Food Gatherers in Ecuador (Jacob Friedman, PI) DHR-5544-G-SS-9064-00	\$200,000
1989-1991	Boehringer Ingelheim: Natural Products Research	\$25,000
1988-1991	U.S. Agency for International Development: Useful plants and traditional healing systems in Belize–505-0035-G-OPG-8001-00	\$100,000
1988-1991	U.S. Agency for International Development: Improving management practices for biomass (fruit) production from native stands of babassu palms, and developing techniques for improving exploitation of this resource – DPE-5542-G-SS-8070-00	\$149,846
1986-1991	National Cancer Institute: Collection of Neotropical rainforest plants for screening for anti-cancer and anti-AIDS activity–N01-CM-67924	\$626,826
1987-1989	Joyce Mertz-Gilmore Foundation: Preparation of a flora on the palms of Brazilian Amazonia and their uses	\$20,000
1987-1989	U.S. Agency for International Development: Economic botany studies of the lowland tropical forest of Ecuador–LAC-0605-G-SS-7037-00	\$100,000
1987	Rockefeller Foundation: Support for publication of an annotated bibliography of useful palms	\$6,000
1986-1988	Joyce Mertz-Gilmore Foundation: Support of the babassu palm project	\$15,000
1984-1987	U.S. Agency for International Development: Forest palms as tropical tree crops: their agronomic improvement through application of germplasm collection, tissue culture techniques and mycorrhizal symbiosis–DPE-SS42-G-SS-4061-00	\$137,366
1984-1987	U.S. Agency for International Development: Economic botany and floristic studies of the lowland tropical forest of Ecuador–518-0023-G-00-4110-00-0605	\$182,253
1984-1985	Joyce Mertz-Gilmore Foundation: Support of the babassu palm project	\$10,000

1984-1986	Pittsburgh Foundation: Agronomic and ecological studies of babassu palms	\$27,000
1982	Rockefeller Foundation: Identification of Neotropical Sites for Palm Germplasm Banks	\$8,000
1981-1986	Rockefeller Foundation: Preparation of an Annotated Bibliography on Economic Palms–RF7023	\$15,750
1981-1985	U.S. Agency for International Development: Domestication of the Babassu Palm–DAN-SS42-G-SS-1089-00	\$184,724
1980-1981	Charles A. Lindbergh Foundation: Babassu an Economically Important Native Amazonian Palm and Its Role in the Rational Use of Tropical Forest Lands	\$8,890
1979-1980	U.S. Agency for International Development: Introduction of the Jessenia-Oenocarpus complex of palms as an agronomic crop for economic development in Latin America	\$10,215
1979-1980	National Science Foundation: Doctoral Dissertation Research in Systematic Biology–DEB 7918347	\$1,375

HONORS

Dr. H. Marc Cathey Award for outstanding scientific research that has enriched horticulture and plant science. American Horticultural Society, Great American Gardeners National Award. 2020.

Mary W. Klinger Book Award for *Messages from the Gods: A Guide to the Useful Plants of Belize*, with Rosita Arvigo. Society for Economic Botany. 2018.

David Fairchild Medal for Plant Exploration, National Tropical Botanical Garden. 2018.

Elected as a Founding Member of the Daylight Academy, Zurich, Switzerland, May, 2017.

Doctor of Science, Honoris Causa, Lehman College, City University of New York, May 2014

President's Award for Outstanding Contributions to the Society for Economic Botany, 53rd Annual Meeting, Frostburg, Maryland. 2012

Distinguished Economic Botanist Award, Society for Economic Botany 50th Annual Meeting, Charleston, South Carolina. 2009

Accorded High Title of *Luhk en Kairoir Dolen Katau Nett*, Pohnpei, Federated States of Micronesia, 2009

Natural Products Association's 2007 Rachel Carson Award Environmental Award, Las Vegas, Nevada. 2007

John Simon Guggenheim Memorial Foundation Fellowship. 2005

International Scientific Cooperation Award, The American Association for the Advancement of Science. 2005

Frontiers of Science Awardee, Society of Cosmetics Chemists. 2001

Elected Fellow of The American Association for the Advancement of Science. 1999

Janaki Ammal Medal for Ethnobotany, Society of Ethnobotanists. 1999

Jean Andrews Centennial Visiting Professorship in Tropical and Economic Botany, University of Texas, Austin. 1997

American Library Association, Oberly Award for Bibliographic Excellence (in Agriculture and Related Sciences), for the publication, "<u>Useful Palms of the World</u>." 1991 (co-authored by H.T. Beck).

Metropolitan Life Insurance Company Fellowship. 1989-1992; 2000–2002

Elected Fellow of the Linnean Society (London). 1981

Charles A. Lindbergh Foundation Grant Recipient. 1980

George H. M. Lawrence Memorial Award. 1979

Sigma-Xi, The Scientific Research Society of North America, Associate Member,

Harvard Chapter, Chapter, 1976-1985. Elected to full membership, Columbia University Chapter, 1985-present.

Student Travel Award, American Association of Botanical Gardens and Arboreta. 1975

Outstanding Young Horticulturist of 1970, The Pennsylvania Horticultural Society.

Harvard Club of Delaware Scholarship. 1976-1980

Garden Club of Delaware Scholarship. 1975

Florists Transworld Delivery Scholarship. 1975

TEACHING EXPERIENCE

2020-2023	Ethnobotany: A Practitioner's Perspective. NYBG Adult Education Program, October-November, 2020; April-May, 2021, January-February, 2023 (virtual courses comprising 6 contact hours).
2016-present	Botanical Medicine Course. Fellowship Program for Integrative Medicine Physicians Andrew Weil Center for Integrative Medicine, University of Arizona. Taught twice yearly.
1988-present	ENVB W4086 – "Ethnobotany: The Study of People and Plants," Spring term.
-	Center for Environmental Research and Conservation, Columbia University (currently with A. McAlvay).
2014	Bio502- "Ethnobotany, The Study of People and Plants," Fall term, Macaulay
	Honors College, Lehman College (with I. Vandebroek).
1997-2002	New York University, Plant Resources II: Economic Botany and the Global
	Environment Lecture Series, Spring term, "Essential Oils, Perfumes and the
	Nutraceutical Industry." (Team taught, 1 lecture)
1996-2007	Faculty Member, Botanical Medicine in Modern Clinical Practice, One Week
	Continuing Medical Education (CME) Course, Columbia University College of
	Physicians & Surgeons, taught annually in May
1981-2001	Forestry and Environmental Science 583B—"Botanical Resources of the
	Tropics," Spring term. School of Forestry and Environmental Studies, Yale
	University
1985-1994	Bio. U792.01 – "Economic Botany (Advanced Study," Fall term. City
	University of New York
1982, 1986,	Botany 220 – "Economic Botany," The New York Botanical Garden Education
1989, 1991	Program
1979-1980	"Management of Technological Innovation in Agriculture," co-organizer of non
	credit seminar course offered at the Harvard Graduate School of Business
1978-1979	Biology 104 – "Plants and Human Affairs," Spring term. Teaching Fellow,
	Harvard University

1978-1979	Biology E104C – "Foods and Beverages: Their Botany, Chemistry, and Role in
	Human Affairs," Fall term. Course Assistant, Harvard University
1976-1977	Biology 104 – "Plants and Human Affairs, "Fall term. Teaching Fellow,
	Harvard University
1975-1976	Biology: Extension course – "The Importance of Plant Chemistry in Human
	Affairs," Spring term. Course Assistant, Harvard University
1975-1976	Biology: Extension course – "Plants and Human Affairs," Fall term. Teaching
	Assistant, Harvard University

POSTDOCTORAL, DOCTORAL, MASTERS AND INTERNATIONAL FELLOWSHIP STUDENTS: ADVISOR OR COMMITTEE MEMBER

Luis E. Forero P. (Palms) 1982; Claudio U.B. Pinheiro (palms, economic botany) 1986; Anna Arguello (palms, economic botany) 1987; Marc Baker (Post-doc, economic botany) 1987; Andrew Henderson (palms) 1987; Steven R. King (economic botany) 1988; Bradley C. Bennett (Post-doc, economic botany) 1988-92; Hans T. Beck (systematics, economic botany) 1991; N. Hasegawa (Molecular Systematics of Ranunculaceae) 1992; Miguel Alexiades (economic botany) 1997; Claudio U.B. Pinheiro (palms, economic botany) 1997; Flor Chavez (palms, economic botany) 1997; Alfredo Gomez-Beloz (ethnomedicine) 2000; Andreana Ososki (ethnobotany) 2004; Sarah Khan (ethnomedicine) 2006; Ryan Huish (ethnomedicine) 2009; Jillian DeGezelle (ethnomedicine) 2013; Lisa Offringa (ethnomedicine) 2013; Jon Ferrier (natural products chemistry and ethnomedicine) 2013; Fabiana Fonseca (Post-doc 2013); C. Kitalong (natural products chemistry and ethnomedicine) 2014; Daniel Kulakowski (natural products chemistry and ethnomedicine) 2014; C. Tipton (ethnobotany [on leave]); R. Wolkow (ethnomedicine [dropped]); Taylan Morcol (ethnobotany, natural products chemistry (2021)); Lan Truong (ethnomedicine (2022)); Ashley McGuigan, University of Hawaii, ethnoecology [2022].

SYMPOSIA AND CONFERENCES ORGANIZED

Daylight Academy, Annual Conference, Lausanne, Switzerland. Perspectives on Daylight and Health in Traditional Societies of Oceania. June 2, 2023 (Keynote with K. David Harrison).

Daylight Academy, Annual Conference, Zurich, Switzerland. Workshop on "The Impact of Daylight in Biology and Medicine. February 25, 2022. (with Heinrich Walt and K. David Harrison).

Daylight Academy, Annual Conference, Zurich, Switzerland. Workshop on "The Impact of Daylight in Biology and Medicine. November 2019. (with Heinrich Walt).

Society for Economic Botany, Annual Meeting, Bragança, Portugal. Workshop on publishing economic botany topics. June 2017. (with Ina Vandebroek)

International Congress on Natural Products Research, American Society of Pharmacognosy. New York City, July 28-August 1, 2012. (Scientific Organizing Committee member and Co-

- Organizer with Barbara Timmerman of Symposium on Ethnobotanical Research and Development)
- Annual Symposium on Ethnomedicine, Conservation and Clinical Research, Alan G. Johnson Memorial Symposium on Ethnomedicine, Health, and Environmental Conservation, Costa Rica 2007,2008, 2009, 2010 (Organizer)
- Traditional Knowledge in the 21st Century. AAAS Annual Meeting" Grand Challenges, Great Opportunities, "The Erosion of Traditional Knowledge and The Impact of Its Loss." Ancient Wisdom and Contemporary Science: St. Louis, MO. 2006. (Co-organizer)
- Discussion and Commentary on Ethnobotany, U.S. National Committee, International Union of Biological Sciences: Internet Symposium (www4.nas.edu/usnc/home.nsf) 1998.
- Botanical Medicine in Modern Clinical Practice, The Columbia University College of Physicians & Surgeons at The Columbia-Presbyterian Medical Center, 1997-2002 (Course co-organizer and lecturer), "Ethnobotany and pharmaceuticals from tropical forests."
- Society for Economic Botany 27th Annual Meeting Symposium: Palms—Biology, Utilization and Conservation. The New York Botanical Garden, Bronx, New York, June 13-16, 1986 (Symposium Organizer, Meeting Co-organizer).
- CENARGEN/EMBRAPA/UEPAE-Teresina: International Workshop on Babassu Palm Research Activities, Teresina, Piauí, Brazil, March 10-15, 1986 (Co-organizer).
- Interciencia/Colciencias: Workshop on promising oil crops, Bogotá, Colombia, November 4-6, 1985 (Vice President).
- FAO/CATIE: Workshop on Underutilized Palms of Tropical America, Turríalba, Costa Rica, August 8-10, 1983 (Co-organizer).
- American Association of Botanical Gardens and Arboreta Annual Meeting: Ethnobotany Symposium, Columbus, Ohio, June 17, 1992 (Symposium Organizer; Member of Program Committee).
- Ciba Foundation Meeting: Ethnobotany and the Search for New Drugs. Fortaleza, Brazil. November 30-December 2, 1993.
- Society for Economic Botany Annual Meeting Symposium: "New Directions in Ethnobotany." Fairchild Tropical Garden, Miami, Florida, June 23-27, 1993.
- Society for Economic Botany Annual Meeting Symposium: "Pacific Island Ethnobotany." With Will McClatchey, Botanical Research Institute of Texas, June 5, 2005.

SELECTED INVITED SEMINARS AND PRESENTATIONS

1978	"The biology and economics of the <i>Oenocarpus—Jessenia</i> Palm Complex."
1770	Botanical Museum of Harvard University, Cambridge, Massachusetts.
1980	"Jessenia bataua and Oenocarpus species: Native Amazonian palms as new
	sources of edible oil." Presented at the symposium "New Sources of Fats and Oils,"
	International Society for Fats/Research/American Oil Chemists Society
	(ISF/AOCS) World Congress, New York.
1981	"Research prospects and opportunities for Amazonian palms." Museu Paraense
	Emilio Goeldi, Belém, Pará, Brazil.
1983	"Useful palms of Amazonia: germplasm conservation and research priorities."
	Centro Nacional de Recursos Geneticos, CENARGEN/EMBRAPA, Brasilia, Brazil.
1983	"Prospects for the domestication of the <i>Oenocarpus–Jessenia</i> palm complex", and
	"Advances in Babassu palm research." FAO symposium on underutilized
	Neotropical palms, Turrialba, Costa Rica.
1983	"A Report on progress in studies of the Babassu palm complex." Society for
	Economic Botany Annual Meeting, Gainesville, Florida.
1984	"Palms and development in the humid tropics." Invited seminar, First Symposium
1007	on the Humid Tropics, Belém, Brazil.
1985	"O complexo Jessenia/Oenocarpus (Palmae): sistemática, ethnobotânica e potencial
	para domesticão," and "O que é Babaçu." XXXVI Congresso Nacional de Botânica,
1005	Botanical Society of Brazil, Curitiba, Paraná, Brazil.
1985	"Palms and progress: genetic resources for Brazilian development." Cornell
	University, International Agriculture 650, Agriculture and Biomass Resource
1985	Development: The Case of Brazil. Ethnologous of New World palms " Cornell University Feenomic Potenty course.
1963	Ethnobotany of New World palms." Cornell University, Economic Botany course taught by Dr. David Bates.
1985	"Amazonian Indians and their useful palms." Biology seminar series, Connecticut
1703	College, New London, Connecticut.
1985	"Palms, people and progress." New England Botanical Club, Yale University, New
	Haven, Connecticut.
1985	"Perspectives on the rational utilization of the <i>Oenocarpus-Jessenia</i> (Palmae)
	complex." Workshop on Promising Native Oil Plants, Programa Internacional de
	Recursos Bioticos, Interciencia Association, Bogota, Colombia.
1985	"Babassu (Orbignya sp.) palm complex: systematics and utilization." Seminar
	series, New York Botanical Garden, Bronx, New York.
1985	"Hybridization in the Babassu (Orbignya, Attalea, Maximiliana spp.) palm
	complex," and "ethnobotanical utilization of Babassu palms." International
	Workshop on Babassu Palm Research Activities, Teresina, Piauí, Brazil.
1986	"Ethnobotany of the Guajajara and Apinayé Indians of Northeastern Brazil." Palm
	Symposium, Society for Economic Botany, Annual Meeting, New York Botanical
	Garden, Bronx, New York.
1987	"Hybridization in Neotropical palms." International Palm Symposium. L. H.
100=	Bailey Hortorium, Cornell University, Ithaca, New York.
1987	"Tropical deforestation and economic botany alternatives." Institute of Ecosystem

- Studies, The Mary Flagler Cary Arboretum, Millbrook, New York.
- "Neotropical palms as new sources of food, fuel and raw materials for industry and development." University of Southampton, England, International Symposium on New Crops for Food and Industry.
- "Mayan medicine in the 20th Century." The Environmental Center, Belize City, Belize.
- "Ethnobotanical studies in the tropical rain forest and the search for anti-cancer agents." New York Rainforest Alliance Symposium, New York, New York.
- "Ethnobotany and its implications for modern medicine." American Association of Botanical Gardens and Arboreta Annual Meeting, Phoenix, Arizona.
- "Scholarly research in botanical gardens and arboreta." Symposium on Scholarly Research in Museums, Ninth Annual Museum Studies Conference, University of Delaware, Newark, Delaware.
- "The tropical forest, ethnobotany and the search for modern medicine." Haverford College, Haverford, Pennsylvania.
- "Systematics and economic botany of *Orbignya*." Bailey Hortorium, Cornell University, Ithaca, New York.
- Biological conservation: the case of the world's rarest palm, *Attalea crassispatha*. "International Conflict and Cooperation: Environmental Security in the 1990's," University of Wisconsin.
- "Perspectives on the role of the ethnobotanist in pharmaceutical research." New York Zoological Society.
- "Ethnobotany and the identification of therapeutic agents from the rain forest."

 CIBA Foundation Symposium on Bioactive Compounds from Plants. Bangkok,
 Thailand.
- "The tropical forest, ethnobotany and the search for modern therapeutics," Morris Arboretum, Philadelphia; North Carolina State University (July 17, 1990); Scott Arboretum, Swarthmore, PA (September 10, 1990); Lederle Laboratories, New Jersey (April 23, 1991).
- "An overview of palm germplasm research employing tools from molecular biology," CENARGEN, Brasilia, Brasil.
- "Ethnobotanical Research and Perspectives on the Issue of Compensation." Environmental Defense Fund–Rainforest Alliance Workshop.
- "Medicinal plants and the conservation of tropical biodiversity." American Museum of Natural History–Rainforest Alliance Workshop.
- "Tropical conservation: the case of *Attalea cras*sis*patha* in Haiti," Annual Meeting, American Association of Botanical Gardens and Arboreta.
- "The potential of the tropical rain forest as a source of new pharmaceutical products." Sterling Drugs, Pennsylvania.
- "Ethnobotany and the search for modern medicine." NYBG Symposium "Plants for Health and Healing—Their Role in Modern Medicine".
- "The tropical rain forest and the search for plants that heal." Bartlett Arboretum.
- "The role of the NCI in drug development (for G. Cragg)." IEB/Rainforest Alliance Symposium: Tropical Forest Medical Resources and the Conservation of Biodiversity.
- "Ethnobotany and the search for modern therapeutics." Lehman College,

- Department of Biological Sciences Seminar.
- "Progress in the NCI collection program" including panel discussion on the ethics of this issue, NCI Contractors Meeting, Frederick, Maryland.
- "The tropical rain forest, ethnobotany and the search for modern medicine."

 Princeton University. Special Lecture Series for the Columbian Quincentenary.
- Symposium on biodiversity conservation and development, "Ethnobotany, drug development and conservation of biodiversity." Penn State University, Pennsylvania.
- "Ethnobotany and the tropical rain forest—the search for modern medicines," Chicago Botanic Garden, Zimmerman Lecture Series.
- "Linking ethnopharmacology and conservation in Belize." Harvard University, OEB Seminar Series.
- "Conservation and preservation of medicinal plants." Morris Arboretum, WHO Medical Plant Symposium.
- "Ethnobotany and conservation in Belize." The Nature Conservancy of Texas, 1993 Annual Meeting, Keynote Speaker.
- "Valuation of extractive medicine from tropical forests—implications of conservation." Princess Science Congress II, Bangkok, Thailand.
- "Ethnopharmacology and tropical forest conservation—is there a link?." Royal Botanic Garden, Kew, U.K. Chapter of the Society for Economic Botany.
- "Ethnobotany and the search for new pharmaceuticals in tropical forests." Tulane University, Graduate Anthropology Colloquim.
- "Ethnopharmacology and conservation in Belize." Vassar College, Tropical Biology Seminar.
- "Linking modern medicine, ancient healing and conservation in the tropical forests of Belize." Central Westchester Audubon Society.
- "Linking traditional healing and tropical forest conservation in Belize." The New York Botanical Garden Healing Plants Symposium.
- "Ethnobotany and conservation in the rain forests of Belize." The Belizean Cultural Society of New York.
- "A new market—trees for medicine?" Menninger Sunbelt Tree Conference, Orlando.
- "Linking ethnopharmacology and conservation in the rain forest of Belize." Buffalo Medicinal Chemistry Symposium.
- "Primary health care and pharmaceutical prospecting." Metropolitan Life Insurance Company Officer's Lunch.
- "Good botanical practices" in botanicals: a role in U.S. health care? NIH Office of Alternative Medicine in Cooperation with the U.S. Food and Drug Administration, Washington, D.C.
- "Uncovering ancient remedies in the tropical rain forest." Delaware Center for Horticulture, Wilmington, Delaware.
- "Ancient wisdom and modern medicine: the search for new therapies in the tropical rain forest." Sasqua Garden Club, Southport, CT.
- "Consequences of extinction" a panel, in "The living planet in crisis: biodiversity science and policy." American Museum of Natural History Center for Biodiversity and Conservation, New York.

- 1995 "Ethnobotany for the new millennium" Keynote Address for "Biodiversity: Keystone of Life," Annual Systematics Symposium. Missouri Botanical Garden, St. Louis, Missouri.
- "Ethnopharmacology and tropical forest conservation in Belize." Kansas Academy of Science, Pittsburgh State University, Pittsburgh, Kansas.
- "Ethnobotany, conservation and corporate responsibility." Mitsubishi International Corporation, New York.
- "Ancient wisdom and modern medicine." Greenwich Garden Club, Greenwich, Connecticut.
- "Richard Evans Schultes: life of a legend." Botanical Research Institute of Texas, Fort Worth, Texas.
- "Ethnomedicine and modern health care." Memorial Sloan-Kettering Cancer Center, New York.
- "Ethnobotany, biodiversity prospecting and conservation in Belize" The Botanical Garden of Smith College, Northampton, Massachusetts.
- 1996 "Traditional healers and herbal remedies." Herb Society of America, New York.
- "Assessment of future activities in the rain forest biome." Biodiversity Cycle Working Group, Research Program Review and Planning Meeting, Biosphere 2, Oracle, Arizona.
- "Ethnopharmacology and tropical forest conservation in Belize." Adelphi University, Garden City, New York.
- "Drug discovery in the rain forest." Bronx-Lebanon Hospital Center, Bronx, New York.
- 1996 "Ethnobotany and pharmaceutical prospecting in tropical forests." Continuing Medical Education Course, Herbal Medicine and Your Health, Columbia University College of Physicians and Surgeons, New York.
- "The ethical issues in ethnobotanical research." The Ethical Society of Northern Westchester, Ossining, New York.
- "Studies of plants and people in Belize." The Conservancy of Southwest Florida, Naples, Florida.
- "Studies of plants and people in Belize." The Barbara Cushing Paley Horticultural Seminars, The New York Botanical Garden.
- "Learning from the rain forest: plants, people and culture." The NYBG Conservatory Lecture Series, The Rockefeller University.
- "Ethnobotany and conservation in Belize." Wesleyan University, CT.
- 1997 "Public health related activities of the Institute of Economic Botany." Columbia University, NY.
- "Linking traditional medicine and forest conservation in Belize." "Ethnobotany of New World palms;" and "Traditional healers in Belize—educating the next generation." The Jean Andrews Centennial Visiting Professorship in Tropical and Economic Botany, The University of Texas at Austin, Austin, Texas.
- "Ethnomedical studies in the urban environment." <u>The New York Times</u>, NY.
- "Linking ethnomedicine and conservation in Belize." The Newark Museum, Newark, NJ
- "The importance of the tropical forest as a source of modern therapeutic drugs."

 National Catholic Franciscan Sisters of Poor Health Care System.

- "NYBG's role in the development of therapeutic drugs." Cancer Information Service, New York City.
- "Ethnobotany and conservation in Belize." Easton Garden Club and the Friends of the Easton Public Library, Easton, CT.
- 1997 Radio show, "Revealing secrets for mind and body." Interview on Medicinal Plants.
- 1997 "New ethnobotany project in Micronesia." Botanical Science Committee and Library Visiting Committee, The New York Botanical Garden, Chase Manhattan Bank, NY.
- "Ancient wisdom and modern medicine: the search for new therapies from the tropical rain forest." Adelphi University, Garden City, NY.
- "Ancient wisdom and modern Medicine." The Southampton Garden Club, New York
- "Linking ethno-medicine and conservation in the tropical forest." Contemporary Club of Albemarle, Charlottesville, VA.
- "Plants, people and culture: the science of ethnobotany and tropical rain forests."

 Department of Ecology, Evolution and Natural Resources, Cook College, New Brunswick, New Jersey, Distinguished Lecturer Series Seminar.
- "Ethnobotany, drug development and conservation: exploring the linkage." Shaman Pharmaceuticals, Inc., San Francisco, CA.
- "Ancient wisdom and modern medicine." New England Science Center, 130th Annual Meeting of the Worcester Natural History Society, Worcester, MA.
- "Plants, people and culture: linking ethnobotany, conservation and traditional medicine in the tropical rain forest." Santa Barbara Botanic Garden, Second Annual Vernon Cheadle Memorial Lecture, Santa Barbara, CA.
- 1998 "Plants, people and culture: the science of ethnobotany." Department of Biology, University of Utah, Salt Lake City, UT.
- "Ethnobotany and conservation in Belize." Red Butte Garden and Arboretum, University of Utah, Salt Lake City, UT.
- "Ethnobotany and pharmaceuticals from tropical forests." Botanical Medicine in Modern Clinical Practice, The Columbia University College of Physicians and Surgeons at the Columbia-Presbyterian Medical Center, New York.
- "Human impacts on the environments of Brazilian Amazonia: does traditional ecological knowledge have a role in the future of the region?." Centre for Brazilian Studies, University of Oxford, Oxford, England, an International Conference.
- "The role of plants in medicine: past, present and future." The Royal Society of Medicine, Medicines from Nature: Scientific, Legal and Ethical Aspects, London, England.
- "Ancient wisdom and modern medicine." Today's Horticulture at Longwood Gardens, Chanticeer Foundation, Wayne, PA.
- "Ancient wisdom and modern medicine: Ethnobotany of Belize." The Garden Club of America, New York, N.Y.
- "Ethnobotany and conservation in the tropics." Leadership Conference, Nu Skin International, Salt Lake City, Utah.
- "Women's health studies on herbal medicines in New York City." Richard and Hinda Rosenthal Center for Complementary and Alternative Medicine, Columbia

1999 "Ethnobotany and cultural conservation." Seed Seminar Series, Nightingale-Bamford School, New York, N.Y. "The study of bioactive compounds from Belize: Linking Ethnomedicine, 1999 Floristics, Biodiversity Conservation, and Education." International Conference on Ethnomedicine and Drug Discovery, Silver Spring, MD. 1999 "Searching for, evaluating, and cultivating new botanicals: New Responsibilities for Industry." The Cosmetic, Toiletry, and Fragrance Association Science Conference, Boston, MA. "Effectiveness of herbals in western medicine: beliefs and proofs." The Science 2000 Center of Eastern Connecticut, New London, CT. "Ancient wisdom and modern medicine: lessons from the rain forest." Symposium 2000 on Integrative Medicine: Foundation for the Advancement of Innovative Medicine Education Fund, Oradell, NJ. "Ancient wisdom and modern medicine: The search for new therapies in the 2000 tropical rain forest." University of Pennsylvania, Institute for Environmental Studies, Philadelphia, PA "Ancient wisdom and modern medicine: ethnobotany, conservation and therapies 2000 of the tropical rain forest." Distinguished Lecture Series for 1999-2000, Botanical Research Institute, Forth Worth, Texas. "Healing herbs: ethnobotany of medicinal plants." Walt Disney World, Orlando, 2000 Florida. "Between plants and people." Penn State Berks-Lehigh Valley, College, PA. 2000 "The economic, medicinal & cultural impact of the loss of the rain forest." 2000 University of Connecticut at Avery Point, Groton, CT. "Ancient wisdom and modern medicine: ethnobotanical exploration in Central 2000 America and the Pacific." The Arboretum of Los Angeles County, Arcadia, California. 2001 "Plants, people and culture: the science of ethnobotany." Trinity School, Science Department Faculty, New York, N.Y. "Ethnobotanical and floristic research in Belize—accomplishments, experiences, 2001 and challenges." Building Bridges with Traditional Knowledge II: An International Summit Meeting on Issues Involving Indigenous Peoples, Conservation, Sustainable Development and Ethnoscience, University of Hawaii, Honolulu, Hawaii. "Ethnobotanical studies and educational opportunities." National Institutes of 2001 Health/Peabody Biodiversity and Human Health Program, Peabody Museum of Natural History, Yale University, New Haven, CT. "Ancient wisdom for contemporary healing." From Plants to Medicines: Honoring 2001 our Relationship to Nature's Pharmacy, 12th Annual Symposium of the American Herbalists Guild, Helen, GA. (Plenary address) "Plants, People, and Culture: The Science of Ethnobotany." Long Island 2001 University, Arnold & Marie Schwartz College of Pharmacy and Health Sciences. "Ancient wisdom for modern times: an ethnobotanist's perspectives on the 2001 cosmetics industry." Frontiers of Science Award Lecture, Society of Cosmetic Chemists, New York, N.Y.

University College of Physicians and Surgeons, New York, N.Y.

"The healing herbs." SUNY Rockland Community College, Suffern, N.Y.

1999

2002 "Ancient wisdom and modern medicine: ethnobotany, conservation, and therapies of the tropical rain forest." The Power of Herbs: Tenth Anniversary Weekend Celebration, The New York Botanical Garden, Bronx, N.Y. 2002 "The globalization of ethnomedicine." Health Care Education in the Developing World: Bridging Global and Local Health Care Practices, Harvard Health Caucus at the Harvard Medical School, Boston MA "Ancient wisdom and modern medicine: plants, people, and culture. The 2002 Therapeutic Relationship, Scientific, Cultural and Personal Perspectives." The Sixth Annual Alternative Therapies Symposium and Exhibition, San Diego, CA. "Ancient wisdom, modern medicine." Chappaqua Library, Chappaqua, New York. 2002 "Ethnobotany an pharmaceuticals from tropical forests." Botanical Medicine in 2002 Modern Clinical Practice, Columbia University College of Physicians & Surgeons at Columbia-Presbyterian Medical Center, New York, New York. 2002 "Ethnomedicine and the environment." Society of Environmental Journalists 12th Annual Conference, Baltimore, Maryland. "Traditional knowledge: lessons from the past, lessons for the future." Conference 2003 on Biodiversity, Biotechnology and the Protection of Traditional Knowledge, Washington University, St. Louis, Missouri. "Ancient wisdom and modern medicine: ethnobotany, conservation and therapies 2003 of the tropical rain forest." The Healing Power of Herbs, The New York Botanical Garden, Bronx, New York. "Urban ethnobotany: plants, people and culture in New York City." Biodiversity 2003 and the Empire State: Conserving our Landscapes, The Nature Conservancy and The Center for Environmental Research and Conservation at the Earth Institute, Columbia University, New York. 2003 "Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the Tropical Rainforest." Cantor Arts Center, Stanford University, Stanford, CA. "Nature's Subsidy: A Current Perspective on Plants and the Healing Process." 2004 Plants and Your Health, The New York Botanical Garden, Bronx, New York. "Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the 2004 Tropical Rainforest." Copeland Lecture, Delaware Center for Horticulture, Wilmington, Delaware. "Ethnomedicine and Ethnobotany: A Consideration of Their Potential Contribution 2004 to the Development of CAM." National Center for Complementary and Alternative Medicine, Bethesda, MD. "Ancient Wisdom and Modern Medicine: Rainforest Remedies." Valencia 2005 Community College, Orlando, Florida. "Plants, People and Culture: The Science of Ethnobotany," Department of Biology 2005 and Curriculum in Ecology Seminar;" and "Ancient wisdom and modern medicine," public lecture. University of North Carolina at Chapel Hill, NC. "Exploring Ancient Wisdom and Traditional Healing in Micronesia." Botanical 2005 Research Institute of Texas, Fort Worth, Texas. "Ancient Wisdom and Modern Medicine: Examining the Value of Traditional 2005 Healing in Contemporary Patient Care." Strang Cancer Prevention Center, Weill

"Piper methysticum (Sakau) and its cultural use in Pohnpei." Society for Economic

College of Cornell University, New York.

2005

2005	Botany Annual Meeting, Botanical Research Institute of Texas.
2005	"Ancient Wisdom and Modern Medicine: Plants, People and Culture in the Tropical Rainforest." Rainforest Alliance, New York City.
2006	"Ancient Wisdom, Modern Science: Biodiversity and Cultural Conservation in Pohnpei, Micronesia." Briefings from the Field, The New York Botanical Garden,
2006	Sotheby's, New York City "Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
2000	Tropical Rainforest." The Plant Biology Seminar Series. Rutgers University – Cook College, New Brunswick, New Jersey.
2006	"Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
2000	Tropical Rainforest." Cornell University, Cooperative Extension, Westchester County, Valhalla, New York
2006	"The Erosion of Traditional Knowledge and The Impact of Its Loss." Ancient
2000	Wisdom and Contemporary Science: Traditional Knowledge in the 21 st Century.
	AAAS Annual Meeting" Grand Challenges, Great Opportunities," St. Louis, MO.
2006	"Ancient Wisdom, Modern Practices: Ethnomedical Studies and Conservation in
	Belize." Maya Shamans, The 24th Annual Maya Weekend. The University of
	Pennsylvania Museum of Archaeology and Anthropology, Philadelphia, PA.
2006	"Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
	Tropical Rainforest." United States National Herbarium, National Museum of
	Natural History, Smithsonian Institution, Washington, D.C.
2006	"Bioprospecting in the Cragg Era: Accomplishments and the Road Ahead." Legal
	and Ethical Issues: From the Convention on Biological Diversity to Conservation,
	Realizing Nature's Potential: The Once and future King of Drug Discovery, A
	Symposium Honoring the Lifetime Achievements of Dr. Gordon Cragg of the National Cancer Institute, The William L. brown Center of Plant Genetic Resources
	and The Missouri Botanical Garden, St. Louis, MO
2006	"Ethnobotany and The Development of Phytopharmaceuticals." MB&B 230
2000	Rainforest Expedition and Laboratory, Spring/ Summer Semester, Yale University
2007	"Evening with Ethnobotanists." The Public Face of Ethnobotany, Ethnobotany
	Summit, The National Tropical Botanical Garden (NTBG), Kauai, Hawaii.
2007	Ethnobotany, MB&B230 Rainforest Expedition and laboratory Spring/ Summer
	2007 Yale University, CT
2007	"Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
	Tropical Rainforest." Harvard Museum of Natural History, Cambridge, MA
2007	Ethnobotany, MB&B230 Rainforest Expedition and laboratory Spring/ Summer
	2007 Yale University, CT
2008	"Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
• • • • •	Tropical Rainforest." Valencia Community College, FL
2008	Ethnobotany, MB&B230 Rainforest Expedition and laboratory Spring/ Summer
2000	2008. Yale University, CT. February 4.
2008	"Ancient Wisdom and Modern Medicine: Plants, People, and Cultures in the
2008	Tropical Rainforest." Adelphi University, NY. February 21. "Traditional Knowledge & Modern Practice": Science Across Border: Global NHP.
2008	"Traditional Knowledge & Modern Practice": Science Across Border: Global NHP Research, 5 th Annual NHP Research Conference, Toronto, Canada. March 26-29
2008	"Ethnobotany in the Urban Environment": Featured Symposium, Building Upon the
2008	Ethnocotany in the Orban Environment. Featured Symposium, Building Opon the

- Legacy of Botanical Education and Traditional Knowledge, The Society of Economic Botany, 49th Annual Meeting, Duke University, Durham, NC. June 1-5. "Greening the Personal Care Industry": 16th Annual HBA Global Expo & 2008 Educational Conference. Jacob K. Javis Convention Center, NY. September 9-11. "Ancient Wisdom and Modern Medicine": 1st Symposium on Drug Discovery, 2008 Development and Clinical Research in Academia, School of Pharmacy Medical Sciences Campus, University of Puerto Rico, San Juan, Puerto Rico. September 17-19 2008 "Indigenous Practices in the Context of Integrative Care": Pangea 2008 Conference: a Conference for the Future of Pediatric Wellness, NY. November 15-16. 2009 "Ethnomedical Systems, Biodiversity and Primary Health Care in Micronesia": The Center for Biodiversity and Conservation Milstein Sciences Symposium, Exploring the Dynamic Relationship between Health and Environment, American Museum of Natural History, NY. April 2-3. "Ethnobotany, Traditional Medicine and Dietary Supplements: Research Priorities 2009 and Lessons to be Learned, 8th Oxford International Conference on Science of Botanicals (ICBS), University of Mississippi, MS. April 6-9. "Greening the Future": Society of Cosmetics Chemists, NJ Convention Center, 2009 Edison, NJ. May 12-13. "A Sense of Wonder": Distinguished Economic Botanist Lecture, Society for 2009 Economic Botany 50th Annual meeting, College of Charleston, SC. May 30-June8. "Community-based conservation of plant diversity and traditional medical 2009 knowledge in Micronesia": Conservation conversations: a dialog, Fordham University, Bronx, NY. September 25. "Ecological Impact of Sakau (Piper methysticum) production in Pohnpei and 2010 Kosrae, Micronesia and update on animal studies": Alan G. Johnson Memorial Symposium, Luna Nueva, Costa Rica. February 19. "Ethnomedical Studies in the Urban Environment with Dominican Immigrant 2010 Populations, Jardin Botanico, Santo Domingo, Dominican Republic, Aug 19-21 "Reflections on Richard Evans Schultes": Healing the planet: medicinal plants and 2011 the legacy of Richard E. Schultes, The Society for Economic Botany and the trajectory of ethnobotanical research, St. Louis, MO. July 9-15 2011 "Increased local demand for sakau (Piper methysticum) in Micronesia, and the impact on biodiversity": 70 Years After Schultes [W. Law], The Society for Economic Botany and the trajectory of ethnobotanical research, St. Louis, MO. July 2011 "Ethnobotany and Medical Education": 70 Years After Schultes [I. Vandebroek], The Society for Economic Botany and the trajectory of ethnobotanical research, St. Louis, MO. July 9-15 2011 "Effect of Kava (Piper methysticum G. Forst.) on Social and Affect Behaviors of Prairie Voles (*Microtus ochrogaster*)" [K. Herrera]: Annual Meeting, The Society for Economic Botany, St. Louis, MO. July 9-15
- "Ancient Wisdom, Modern Science"; Valencia College, Orlando, FL. February 14.

New London, CT. January 30.

2012

"Ancient Wisdom and Modern Medicine: Plants, People and Cultures in the

Tropical Rainforest": Sherman Fairchild Foundation Lecture, Connecticut College,

- 2012 "A Botanists' Perspective on Personal Care Ingredients from Nature: Opportunities, Challenges and Responsibilities": Health and Beauty Association, Sustainability and Eco-Responsibility Workshop. Javits Center, New York City. June 21. 2012 "Ethnobotany and its Application to Improving Primary Health Care Delivery": International Congress on Natural Products Research, American Society of Pharmacognosy, New York City, July 28-August 1, 2012. "Ancient Wisdom and Modern Medicine: Plants, People and Culture"; Taft School, 2012 November 28, 2012, Watertown, Connecticut. "Sakau (Kava) on Pohnpei: Traditional use, animal studies and environmental 2013 effects of uncontrolled cultivation on a small Pacific Island habitat—What can we learn?" Lehman College, Bronx, New York May 13, 2013. "Wild Medicine: Healing Plants Around the World" Opening lecture and awards 2013 ceremony, New York Botanical Garden, Bronx, New York, May 18, 2013. "The Garden of Good and Evil" Guggenheim Museum, New York City, June 2, 3, 2013 "Ancient Wisdom and Modern Medicine" Closing lecture, Wild Medicine, New 2013 York Botanical Garden, September 8, 2013. "Healing Herbs: Bodies in Balance: The Art of Tibetan Medicine" Rubin Museum 2014 of Art, April 30, 2014 "Ancestral Wisdom in Modern medicine: Plants, People, and Cultures in the tropical 2014 Rainforest" University of Delaware, May 5, 2014 "Ancient Wisdom and Modern Therapies" Sigma Xi Dinner and Lecture, Lehman 2014 College, May 7, 2014 "Herbs in Health and Healing: Ancient Wisdom and Modern Medicine" Macaulay 2014 Honors College, May 16, 2014 "Ancient Wisdom and Modern Medicine: Plants, People and Cultures in the 2014 Tropical Rainforest, June 24, 2014 "The Institute of Economic Botany's Plants and Human Health Program," NYBG 2014 Intern Program, July 2, 2014 "Plants and People of Vanuatu: An interdisciplinary approach to survey, understand 2019 and conserve biological diversity." (With Gregory M. Plunkett) Britton Gallery Talk, NYBG. February 15, 2019.
- 2019 "Exploring Vanuatu: Plants, People and Traditional Culture." (With Gregory M. Plunkett). NYBG Education Department Talk. February 26, 2019.
- 2019 "American Eden and The New York Botanical Garden" with Prof. Victoria Johnson, Harvard Club of New York City, March 5, 2019. "Botanical Remedies in Clinical Practice: Historic and Contemporary Use."
- 2019 University of Arizona, Andrew Weil Center for Integrative Medicine. March 18, 2019.
- 2019 "Scientific Research at The New York Botanical Garden: Nature and Purpose." Princeton Alumni Association. April 13, 2019.
- 2019 "The Nature and Purpose of Ethnobotanical Research." NYBG School of Professional Horticulture. August 2, 2019.
 "Plants Mo Pipol Blong Vanutatu: A Progress Report." A seminar to the Port
- 2019 Resolution Community, Tanna, Vanuatu. (With Gregory M. Plunkett). August 15, 2019.

2019 "Plants Mo Pipol Blong Vanutatu: An Introduction." A seminar to the Futuna Community, Futuna, Vanuatu. (With Gregory M. Plunkett). August 18, 2019. 2019 "Indigenous Perspectives on Daylight: Examples from Vanuatu," Plenary address, Annual meeting of the Daylight Academy, November 15, 2019. "Plants, People and Culture: The Science of Ethnobotany," Rutgers University 2020 Department of Plant Biology, Natural Products. February 21, 2020. Plants, People and Culture: The Science of Ethnobotany. American Botanical 2020 Council Webinar with Paul A. Cox. September 17, 2020. "The History of Medicinal Plant Use: Ethnomedicine and Clinical Application," 2020 College of Pharmacy, University of Minnesota. September 23, 2020. "Ethnobotany and Ethnomedicine: Plants that Heal. CUNY Seminar "Current 2020 Topics in Plant Biology. October 2, 2020. "Ethnomedicine: Botanical Remedies in Clinical Practice," University of Arizona, 2020 Andrew Weil Center for Integrative Medicine. October 12, 2020. "Plants and People of Vanuatu," Earth Day video premier. April 22, 2021. 2021 2021 "Scott Mori memorial tribute." May 12, 2021. "Ethnobotany at the NYBG," Botanical Science Committee Meeting. May 13, 2021. 2021 "Ethnobotany of Palau: From concept to publication." Belau National Museum, 2021 May 18, 2021. 2021 "Ethnobotany and the Search for Bioactive Plants: Contemporary Approaches in the Pacific." Keynote Address, American Council of Medicinally Active Plants. June 24, 2021. 2021 "Ethnobotany: The Science of Indigenous Medicine." Podcast with Andrew Weil and Victoria Maizes. July 13, 2021. https://integrativemedicine.arizona.edu/podcast/episode21_balick.html "Introduction to Toxic Plants, in situ". Rutgers University Hospital Fellowship in 2021 Toxicology. July 29, 2021. Conversations with Great American Gardeners", with Michael Balick, hosted by 2022 Holly Shimizu. American Horticultural Society, January 27, 2022. https://us02web.zoom.us/rec/share/-Y4kxB3Uqi69q3KZrw96MemruNusGO6RjwLM4Oa ZCImw8hRnCknwr3nz8HzJRy.YKVDIkpBN_ErxKap [passcode 8?A335W=] Indigenous Perspectives on Daylight: Environmental, Cultural and Personal Health. 2023 With K. David Harrison. June 2, 2023. Annual meeting of the Daylight Academy, Lausanne, Switzerland. Plants that Harm: Developing a Toxic Plant Tour at NYBG. With Kenneth Walker. 2023 August 22, 2023. https://vimeo.com/858021842/556b078ea4 "The History of Medicinal Plant Use: Ethnomedicine and Clinical Application," 2023 College of Pharmacy, University of Minnesota. September 21, 2023. Plants and People of Vanuatu: Discussion of scientific outputs. CUNY PS 2023

Bio79302. With Gregory M. Plunkett. October 27, 2023.

DOCTORAL DISSERTATION

The Biology and Economics of the *Oenocarpus–Jessenia* (Palmae) Complex. A study of the systematics, ethnobotany, nutrition, growth and economics of the domestication of two genera of Neotropical Palms. Richard Evans Schultes, Advisor, Department of Biology, Harvard University, 1980.

DATABASES AND WEBSITES

Developed jointly with H. T. Beck, the PALM-USE database on economic palms of the world, indexed by product, use and genus. Primary users are scientists in tropical countries working on palm domestication or extractive production who have limited access to the literature. Funded by the Rockefeller Foundation and Andrew W. Mellon Foundation.

Flora of Vanuatu. Vanuatu National Herbarium, *Plants mo Pipol*. The Flora of Vanuatu (pvnh.net). Contributor.

New Pohnpeian-English Online Dictionary. <u>New Pohnpeian-English Online Dictionary</u>© (hawaii.edu). Botanical Consultant.

Vanuatu Talking Dictionaries[™] and Plant Lexicons for Aneityum, Futuna-Aniwa, Lenakel, Nafe, Naka, Newai and Raga languages. <u>Vanuatu Talking Dictionaries and Plant Lexicons</u> (swarthmore.edu). Botanical Consultant.

PATENT

Hetero-substituted cyclic lactone analogues and uses thereof. Guzman, M.L., Compadre, C.M., Ordonez, P., Martinez, M., Balick, M.J., Jones, D.E. Gaudio, F.G.. June 1,2021. US Patent Number 11,021,488.

COMMITTEE AND RELATED PROFESSIONAL SERVICE

Board of Trustees, American Botanical Council, 1996-present.

Advisory Committee, William L. Brown Center, Missouri Botanical Garden, 2012-present.

Board of Trustees, Sacred Seeds Foundation, Costa Rica, 2010-2019.

Editorial Advisory Board Member, Pharmaceutical Crops, 2010-1018

Contributing Editor, Explore: The Journal of Science and Healing, 2004-2019

Associate Editor, Journal of Economic Botany, 2000-present

Associate Editor, Alternative Therapies in Health and Medicine, 2001-present

International Advisory Board, Journal of Tropical Medicinal Plants; 2000-2019

Editorial Board, Fitoterapia; 1999-2015

Guest Editor, Advances in Economic Botany; 2019-2020.

Expert Panel Member, Research on Botanical Medicines. National Institutes of Health, 2013

Associate Editor, The Journal of Alternative and Complementary Medicine, 1997-2003

NYBG Biodiversity Convention Officer, 1997-2005

Editorial Board, Elaeis, Palm Oil Research Institute of Malaysia, 1997-2005

Board Member, Teatown Lake Reservation, Inc., 1997-2001

Scientific Advisory Board, Richard and Hinda Rosenthal Center for Complementary & Alternative Medicine, Columbia University, 1996-2007.

Board of Advisors, Indic Traditions of Healthcare, Dharam Hinduja Indic Research Center, Columbia University, 1996-2000.

Member, US National Committee for the International Union of Biological Sciences, 1995-2000.

National Genetic Resources Advisory Council, U.S. Department of Agriculture, 1995-1996.

Advisory Board, The Botanical Organization and Mae Sa Botanic Garden, Thailand, 1992-2008.

President, Society for Economic Botany, 1992-1993.

Council Member, Society for Conservation Biology, 1992-1995.

Editor, Columbia University Press series, Biology and Resource Management, 1990-2010.

Chairman, Ix Chel Tropical Research Center, Ltd., Belize, 1990-2001.

Council Member, Society for Economic Botany, 1984-1986; 1987-1991.

Review Editor, Journal of Ethnopharmacology, 1990-present.

Associate Editor, Advances in Economic Botany, 1990-1998.

Member, Conservation Committee, American Association of Botanical Gardens and Arboreta, 1989-1993.

Member, Advisory Committee, Las Cruces Tropical Botanical Garden, San Vito, Costa Rica (OTS), 1989-1996.

Advisory Committee on Technology Innovation (ACTI) of the Board on Science and Technology for International Development (BOSTID), National Research Council, 1988-1990.

Chairman, Palm Specialist Group, 1991-1997; Species Survival Commission of the International Union for the Conservation of Nature (IUCN); Member, Ethnobotany Specialist Group, 1981-1990.

Scientific Advisory Board, Society for Protection of Nature in Israel, U.S. Chapter, 1988-1995.

Plant Registration Committee, American Association of Botanical Gardens and Arboreta, 1980.

Member, Board of Directors, American Association of Botanical Gardens and Arboreta, 1984-1986.

Book Review Editor, American Association of Botanical Gardens and Arboreta for: Newsletter and <u>Public Gardens</u>, 1981-1986.

Coordinator, Summer Student Placement Service of the Education Committee, American Association of Botanical Gardens and Arboreta, 1974-1977.

Plant Collector, Ein Gedi Field School, Israel, 1973.

Paralegal Assistant, Community Legal Aid Society, Wilmington, Delaware, 1971-72.

Vice President, Student Coalition for the Environment, University of Delaware, 1970-71.

SELECTED EXHIBTIONS, PRESENTATIONS AND MEDIA APPEARANCES

A Gardening Calendar for the era of Climate Change. With Gregory M. Plunkett, Hosted by Tom Christopher. Growing Greener Podcast. November 15, 2023.

 $\underline{https://www.thomaschristophergardens.com/podcasts/a-gardening-calendar-for-the-era-of-climate-change}$

Psychoactive Plants. NPR WNYC Morning Edition, August 16, 2023. https://www.dropbox.com/scl/fi/7i407q3kcpuz4114xas0v/NYBG-WNYC-8am-8-16-23-1.mp3?rlkey=bbak75lh4zfhedegnuh2ddmrp&dl=0

Plants Mo Pipol Blong Vanuatu (Plants and People of Vanuatu). February, 2021. A video about the biocultural conservation program in Vanuatu. https://youtu.be/m3ii4qihIww

Plants, People and Culture: The Science of Ethnobotany. A webinar hosted by the American Botanical Council. September 17, 2020. https://vimeo.com/460565477

Unladylike 2020: Ynés Mexía. https://unladylike2020.com/profile/ynes-mexia/ (Scientific Advisor)

Poisonous Plants, with Dr. Michael Balick of NYBG. July, 27, 2020. https://awaytogarden.com/poisonous-plants-with-dr-michael-balick-of-nybg/

10 Best Healing Plants You Can Grow. Because Mother Nature knows what she is doing. Interviewed by Erica Elin Sansone, January 27, 2020.

https://www.countryliving.com/gardening/garden-ideas/g29804807/best-healing-plants/

Sacred Science: Remedy, Ancient Medicine for Modern Illness, a 9 part series. 2018, 2019. https://remedy.thesacredscience.com/

The Scientist Podcast: Michael Balick. 2018. http://www.scientistpodcast.org/home/027-michael-balick

"Incredible Healing Plants from Around the World.", Wild Medicine at Weather.com, interviewed by Annie Hauser, December 3, 2013 http://www.weather.com/health/incredible-healing-plants-around-world-photos-20130730

"Wild Botanical solutions for Beauty & Therapeutics", Beauty Inside Out Show, August 27, 2013 http://radiomd.com/show/beauty-inside-out/item/13862-wild-botanical-solutions-for-beauty-therapeutics

Science & U!: Science and Health, CUNY-TV, interviewed by Donna Hanover, August 27, 2013 http://www.cuny.tv/show/scienceandu/PR2002094

Curator, **Wild Medicine: Healing Plants Around the World**. An exhibition at The New York Botanical Garden, May 18 to September 8, 2013, seen by over 200,000 visitors.

Developed and presented two live performances at The Guggenheim Museum, entitled "The Garden of Good and Evil: Harmful and Healing Properties of Plants", combining performance art with a scientific lecture (June 2,3, 2013). http://www.guggenheim.org/new-york/calendar-and-events/2013/06/02/the-new-york-botanical-gardengarden-of-good-and-evil-harmful-and-healing-properties-of-plants/1257

"Learning the Lore of far-Flung Flora." Wall Street Journal Interview by Lisa Bannon September 15, 2012

http://www.nybg.org/files/scientists/mbalick/Wall%20Street%20Journal%20Balick%20091512.pdf

"Chocolate: Good for your Heart and you Brain." Fox News, The Medicine Hunter, October 11, 2011 http://www.foxnews.com/health/2011/10/11/chocolate-good-for-your-heart-and-your-brain/

"Surgery Has Use for Poisonous Plants." Fox News, The Medicine Hunter, October 10, 2011 http://www.foxnews.com/health/2011/10/10/surgery-has-use-for-poisonous-plant/

"A Cure for Dry Mouth." Fox News, The Medicine Hunter, October 3, 2011 http://video.foxnews.com/v/1197779104001/a-cure-for-dry-mouth/#sp=show-clips&v=1197779104001

"The Relaxing Power of Kava." Fox News, The Medicine Hunter, September 29, 2011 http://www.foxnews.com/health/2011/09/29/relaxing-power-kava/

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"Beauty in Botany" The Scientist, April 15, 2011 http://www.the-scientist.com/?articles.view/articleNo/29655/title/Beauty-in-botany/

The Leonard Lopate Show, Please Explain: Poisonous Plants Show WNYC, July 09, 2010 http://www.wnyc.org/story/70327-please-explain-poisonous-plants/

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Public Garden Association Linnean Society of London Society for Economic Botany Torrey Botanical Club

SCIENTIFIC PUBLICATIONS

BOOKS AND MONOGRAPHS AUTHORED OR EDITED

- M. J. Balick (Ed.). 1986. <u>Botanical Gardens and Arboreta: Future Directions</u>. Contributions from the International Working Meeting held at The New York Botanical Garden, October 6-8, 1980. Published by The New York Botanical Garden and The American Association of Botanical Gardens and Arboreta. 109 pp.
- M. J. Balick. 1986. Systematics and Economic Botany of the *Oenocarpus -Jessenia* (Palmae) Complex. Advances in Economic Botany 3. 140 pp.
- Claudio Urbano B. Pinheiro and M. J. Balick. 1987. **Brazilian Palms. Notes on Their Uses and Vernacular Names, Compiled and Translated from Pio Corrêa's "Dicionário das Plantas Uteis do Brasil e das Exóticas Cultivadas," with Updated Nomenclature and Added Illustrations.** Contributions from The New York Botanical Garden 17. 63 pp.
- M. J. Balick (Ed). 1988. The Palm—Tree of Life. Proceedings of a Symposium on the Biology, Conservation and Utilization of Palms. Advances in Economic Botany 6. 282 pp.
- M. J. Balick. 1988. *Jessenia* and *Oenocarpus*: Neotropical Oil Palms Worthy of Domestication. FAO Plant Production and Protection Paper. Rome. 191 pp.
- M. J. Balick and H. T. Beck. 1989. <u>Useful Palms of the World--A Synoptic Bibliography</u>. Columbia University Press, New York. 724 pp.
- G. T. Prance and M. J. Balick (Eds). 1990. **New Directions in the Study of Plants and People:**Research Contributions from the Institute of Economic Botany. Advances in Economic Botany 8. 1-278.
- A. B. Anderson, P. H. May and M. J. Balick. 1991. <u>The Subsidy from Nature: Palm Forests</u>, <u>Peasantry and Development on an Amazonian Frontier</u>. Columbia University Press, New York. 233 pp.
- R. Arvigo and M. J. Balick. 1993. <u>Rainforest Remedies: One Hundred Healing Herbs of Belize</u>. Lotus Press, Twin Lakes, Wisconsin. 221 pp.
- M.J. Balick, E. Elisabetsky, S. Laird. 1995. <u>Medicinal Resources of the Tropical Forest:</u> <u>Biodiversity and Its Importance to Human Health</u>. Columbia University Press, New York. 440 pp.
- M.J. Balick and P.A. Cox. 1996. <u>Plants, People, and Culture: The Science of Ethnobotany</u>. W.H. Freeman, Scientific American Library. 228 pp. Reprint paperback edition 2005.
- J.W. Sheldon, M.J. Balick and S.A. Laird. 1997. **Medicinal Plants: Can Utilization and Conservation Coexist?** Advances in Economic Botany 12:1-104.
- R. Arvigo and M. J. Balick. 1998. <u>Rainforest Remedies One Hundred Healing Herbs of Belize</u>. Lotus Press, Twin Lakes, Wisconsin. 283 pp. Second Edition.
- M.J. Balick, M.H. Nee, and D.E. Atha. 2000. **Checklist of the Vascular Plants of Belize, With Common Names and Uses**. Memoirs of The New York Botanical Garden Press, Bronx, N.Y. 246 pp.
- D.A. Posey and Michael J. Balick (Eds). 2006. <u>Human Impacts on Amazonia: The Role of Traditional Ecological Knowledge in Conservation and Development</u>. Columbia University Press, New York. 368 pp.
- Nelson, L., R. Shih, M. J. Balick, 2007. <u>Handbook of Poisonous and Injurious Plants</u>, Second Edition. Springer/The New York Botanical Garden, New York. 340 pp.

- M.J. Balick and Collaborators. 2009. <u>Ethnobotany of Pohnpei: Plants, People and Island Culture</u>. University of Hawaii Press/The New York Botanical Garden, Honolulu. 585 pp.
- R. Ocampo and M. J. Balick, with R. Goldstein and K. Herrera (Eds). 2009. <u>Plants of Semillas</u>
 <u>Sagradas: An Ethnomedicinal Garden in Costa Rica</u>. Finca Luna Nueva, San Jose, Costa Rica. 109 pp.
- Yukes, J. and M.J. Balick. 2009. <u>Dominican Medicinal Plants: A Guide for Health Care Providers</u>. New York Botanical Garden. 467 pp.
- Lee, R., N. Shere, M.J. Balick, F. Sohl, A.S. Roberts, K. Herrera, S. Dahmer, M. Lieskovsky, A. Dores, W. Raynor, P. Raynor, E. Albert, M. Hunt, C. Trauernicht, L. Offringa, I. Adam, and W. Law. 2010. **Pohnpei Primary Health Care Manual: Health Care in Pohnpei,**Micronesia, Traditional Uses of Plants for Health and Healing. The New York Botanical Garden, The Nature Conservancy, Continuum Center for Health and Healing and The Conservation Society of Pohnpei, Charleston SC. 178 pp.
- Herrera, K., D.H. Lorence, T. Flynn and M.J. Balick. 2010. <u>Checklist of the Vascular Plants of Pohnpei</u>, Federated States of Micronesia with Local Names and Uses. <u>Allertonia</u> 10:1-204.
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- Dahmer, S., M.J. Balick, A. Hillman Kitalong, C. Kitalong, K. Herrera, W. Law, R. Lee, V.R. Tadao, F. Rehuher, S. Hanser, K. Soaladaob, G. Ngirchobong, M. Besebes, F. Wasisang, D. Kulakowski and I. Adam. 2012. <a href="Palau Primary Health Care Manual: Health Care in Palau, Combining Conventional Treatments and Traditional Uses of Plants for Health and Healing. The New York Botanical Garden, Ministry of Health, Republic of Palau, The Continuum Center for Health and Healing and Belau National Museum. Charleston SC. 216 pp. Revised Edition 2018.
- Balick, M.J. 2014. 21st Century Herbal: A Practical Guide for Healthy Living Using Nature's Most Powerful Plants. Rodale Press, Emmaus, PA. 512 pp.
- Balick, M.J. and R.Arvigo. 2015. <u>Messages from the Gods: A Guide to the Useful Plants of Belize.</u> Oxford University Press/The New York Botanical Garden, New York, NY. 539 pp.
- Dahmer, S., M.J. Balick, A. Hillman Kitalong, C. Kitalong, K. Herrera, W. Law, R. Lee, V.R. Tadao, F. Rehuher, S. Hanser, K. Soaladaob, G. Ngirchobong, M. Besebes, F. Wasisang, D. Kulakowski and I. Adam. 2018 (revised edition). Palau Primary Health Care Manual: Health Care in Palau, Combining Conventional Treatments and Traditional Uses of Plants for Health and Healing. The New York Botanical Garden, Ministry of Health, Republic of Palau, The Continuum Center for Health and Healing and Belau National Museum. Charleston SC. 220 pp.
- Nelson, L. and M. J. Balick, 2020. <u>Handbook of Poisonous and Injurious Plants</u>, Third Edition. Springer/The New York Botanical Garden, New York. 333 pp.
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- Balick, M.J. and A. Hillmann-Kitalong. 2020. Ethnobotany of Palau: Plants, People and Island

 <u>Culture</u>. Volume II. Belau National Museum/The New York Botanical Garden, Koror, Palau. 374 pp.
- Balick, M.J. and Paul Alan Cox. 2020. <u>Plants, People and Culture: The Science of Ethnobotany,</u>

 <u>2nd edition</u> (an undergraduate/graduate level textbook). Taylor and Francis Group/CRC Press.
 Boca Raton, Florida. 218 pp.

Balick, M.J. and Andrew J. Henderson. 2022. **A Field Guide to the Palms of Belize.** New York Botanical Garden Press. 153 pp.

SCIENTIFIC PAPERS

- M. J. Balick. 1976. The palm heart as a new commercial crop from Tropical America. <u>Principes</u> 20(1): 24-28.
- M. J. Balick. 1976. Oleaginous palms with potential for commercial exploitation in Amazon regions. Report prepared for the Centro "Las Gaviotas," Bogota, Colombia, as a background to their oil studies program.
- M. J. Balick, D. G. Furth and G. A. Cooper-Driver. 1978. Biochemical and evolutionary aspects of arthropod predation on ferns. Oecologia 35: 55-89.
- M. J. Balick and G. A. Cooper-Driver. 1978. Effects of field preservation on the flavonoid content of *Jessenia bataua*. Botanical Museum Leaflets of Harvard University 26 (8): 257-265.
- M. J. Balick. 1979. Notes on the foraging behavior of a leaf-cutting Ant on *Oenocarpus bacaba* in the Northwest Amazon of Colombia. Principes 23(1): 26-31.
- M. J. Balick. 1979. Amazonian oil palms of promise. Economic Botany 33(1): 11-28.
- M. J. Balick. 1979. Economic botany of the Guahibo. I. Palmae. Economic Botany 33(4): 361-376.
- M. J. Balick. 1980. The current importance of the palm herbarium at Berlin-Dahlem. <u>Principes</u> 24: 33-36.
- M. J. Balick. 1980. Wallace, Spruce and <u>Palm Trees of the Amazon</u>: an historical perspective. Botanical Museum Leaflets of Harvard University 28: 263-269.
- M.J. Balick. 1981. *Jessenia bataua* and *Oenocarpus* species: native Amazonian palms as new sources of edible oil. New Sources of Fats and Oils, pp. 141-155. In Pryde, E. H., L. H. Princen and K. D. Mukherjee (eds.). American Oil Chemists Society, Champaign.
- M.J. Balick and S. N. Gershoff. 1981. Nutritional evaluation of *Jessenia bataua*: source of high quality protein and oil from Tropical America. <u>Economic Botany</u> 35(3): 261-271.
- M. J. Balick. 1981. Une huile comestible de haute qualite en provenance des especes *Jessenia* et *Oenocarpus*. Oleagineux 36(6): 319-326.
- M.J. Balick. 1981. Mauritiella (Palmae) Reconsidered. Brittonia 33(3): 459-460. .
- M. Zethelius and M. J. Balick. 1982. Modern medicine and shamanistic ritual: a case of positive synergistic response in the treatment of a snakebite. <u>Journal of Ethnopharmacology</u> 5(2): 181-185.
- M. J. Balick. 1982. Palmas Neotropicales: nuevas fuentes de aceites comestibles. <u>Interciencia</u>. 7:25-29.
- M. J. Balick, A. B. Anderson and M. Frietas da Silva. 1982. Palm taxonomy in Brazilian Amazonia: an evaluation of the state of systematic collections in regional herbaria. <u>Brittonia</u> 34: 463-477.
- M. J. Balick, L. Rivier and T. Plowman. 1983. The effects of field preservation on alkaloid content of fresh coca leaves (<u>Erythroxylum</u> spp.) <u>Journal of Ethnopharmacology</u> 6: 287-291. Reprinted in: proceedings of the 2nd International Meeting on Medicinal and Aromatic Plants, Città di Castello, 11-13 September 1981.
- M. J. Balick. 1983. Introduction to: Anotaciones sobre bibliografia seleccionada del complejo *Jessenia-Oenocarpus* (Palmae) (by L. E. Forero P.). <u>Cespedesia</u> 12: 21-49.

- M.J. Plotkin and M J. Balick. 1984. Medicinal uses of South American palms. <u>Journal of Ethnopharmacology</u> 10: 157-179.
- M.J. Balick. Ethnobotany of palms in the Neotropics. Advances in Economic Botany 1: 9-23. 1984.
- M.J. Balick. (contributing author). Palmeras poco utilizadas de América Tropical. Report of a workshop on little-known useful palms of Tropical America, CATIE, Turrialba, Costa Rica. Published by the Food and Agriculture Organization of the United Nations. 168 pp. 1984.
- M.J. Balick. Methods for evaluating tropical forest and woodland plants to indicate their potential as resources, 72 pp. A commissioned paper for: Office of Technology Assessment, Study on Technologies to Sustain Tropical Forest Resources, Congress of the United States, Washington, D.C. 1984.
- M.J. Balick. Useful plants of Amazonia: A resource of global importance. pp. 339-368. In: <u>Amazonia</u>, Key Environments Series, G. T. Prance and T. Lovejoy (eds.), Pergamon Press, Ltd., pp. 339-368. 1985.
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- M.J. Balick. Taxonomy of the *Oenocarpus-Jessenia* (Palmae) complex in Brazil. <u>Acta Amazonica</u> (Special Supplement), 15(1-2)87-113. 1985.
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- M.J. Balick. The economic utilization of the babassu palm: A conservation strategy for sustaining tropical forest resources. <u>Journal of the Washington Academy of Sciences</u>. 77(4)215-223. 1987.

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