**EDUCATION**

PhD Botany, Punjab University, Chandigarh, India, l967.

MS Honors, Punjab University, Chandigarh, India, l962.

BS Honors, Punjab University, Chandigarh, India, l960.

BS Punjab University, Chandigarh, India, l958.

**PROFESSIONAL EXPERIENCE**

Ashoka Trust for Research in Ecology and the Environment, Bangalore, India, 1996–present.

Founder and President.

Biology Department, University of Massachusetts, Boston, MA, 1996–present.

Distinguished Professor of Biology.

Harvard University, Cambridge, MA, 2009–10.

Ruffolo Giorgio Fellow in Sustainability Science.

Biology Department, University of Massachusetts, Boston, 1974–81.

Chairman, 1989–92.

Professor, 1981–96.

Associate Professor, 1977–81.

Assistant Professor, 1974–77.

Harvard University Gray Herbarium, Cambridge, MA, 1973–74.

Research Fellow.

College of Forest Resources, University of Washington, Seattle, WA 1967–72.

Postdoctoral Research Associate and Instructor.

Botany Department, Punjab University, Chandigarh, India, 1962–67.

Graduate Research Assistant.

**SELECTED HONORS/AWARDS**

Honorary Doctor of Science, Concordia University, Montreal, June 2019

Linnean Medal, Linnean Society of London, 2018

Jose Cuatrecasas Medal for Excellence in Tropical Botany, Smithsonian Institution, 2016

S.R Kashyap Oration Award, Punjab University, India, 2016

MIDORI Prize for Biodiversity, bestowed by AEON Environmental Foundation, Tokyo, and the Secretariat of the Convention on Biological Diversity, 2014.

Honorary Doctor of Science, University of Alberta, Edmonton, Canada, 2014.

Gunnerus Sustainability Award, Gold Medal bestowed by The Royal Norwegian Society of Sciences and Letters, 2012.

Giorgio Ruffolo Research Fellowship in Sustainability Science, Harvard University, 2009.

Charles Bullard Research Fellowship, Harvard University, 2009.

Distinguished Service Award 2009, Society for Conservation Biology, 2009.

Chancellor’s Award for Distinction in Service, University of Massachusetts, Boston, 2007.

Honorary Fellow, Association for Tropical Biology and Conservation, 2003.

Distinguished Professorship, University of Massachusetts, Boston, 1996.

Pew Scholar in Conservation and the Environment, 1991–1996.

Research Professor, University of Massachusetts, Boston, 1991–1994.

Guggenheim Fellowship, 1987–1988.

Dean’s Outstanding Achievement Award, University of Massachusetts, Boston, 1984, 1988, 1996, and 1999.

Chancellor’s Award for Distinction in Scholarship, University of Massachusetts, Boston, 1981.

Maria Moors Cabot and Charles Bullard Research Fellowships, Harvard University, 1972.

**SELECTED HONORS (ACADEMIC SOCIETIES /PROFESSIONAL ASSOCIATIONS)**

American Philosophical Society, 2019, Elected Fellow

Royal Society (London), 2015, Elected Fellow.

Royal Norwegian Society of Sciences and Letters, 2012, Elected Fellow.

American Academy of Arts and Sciences, 2012, Elected Fellow.

American Association for the Advancement of Sciences, 2007, Elected Fellow.

National Academy of Sciences, India, 2002, Elected Fellow.

Association for Tropical Biology and Conservation, 2000, President.

Association for Tropical Biology, 1999, President Elect.

Society of Economic Botany, since 2000, Councilor.

Association for Tropical Biology, 1985–1987, Councilor.

### SELECTED ADVISORY PANELS

National Geographic Society: Committee for Research and Exploration, since 2011;

Executive Committee, since 2018.

CONABIO, Mexico, since 2011.

Nature Serve, since 2010.

Science Panel for Ecosystem Change and Human Well Being, ICSU Program for Asia and Pacific, 2008–09.

US National Committee for the International Union of Biological Sciences, 2002–08.

DIVERSITAS Agrobiodiversity Group Science Committee, since 2006.

Scientific Advisory Board, TEAM Program, Conservation International, since 2007.

Center for Sustainability, Missouri Botanical Garden, 2006.

W. L. Brown Center for Plant Genetics Resources, Missouri Botanical Garden, since 2003.

Forest Genetic Resources, International Plant Genetic Resources Institute, Rome, Italy, 1998.

WWF Program on Socio-Economic Root Causes of Biodiversity Loss, 1997–1999.

National Science Foundation Advisory Panel on Population Biology, 1993 and 1994.

National Science Foundation Advisory Panel on Conservation and Restoration Biology, 1991.

Friends of Lomas Barbudal (A Conservation Organization based in Costa Rica).

Academy of Sciences on Global Management of Forest Genetic Resources, 1987–1989.

Forest Genetic Resources Work Group constituted by the National Research Council/National.

La Selva Advisory Committee, Organization for Tropical Studies, 1978–1985.

National Science Foundation Council on Undergraduate Research, 1977 and 1979.

### SELECTED EDITORIAL BOARDS

Conservation and Society, Editor in Chief, since 2001.

Ecology, Economy and Society, Editor, since 2017

PLoS One, Academic Editor, since 2011.

Ecology and Society, Associate Editor, since 2009.

Plant Systematics and Evolution, Editorial Advisory Board, 1993-1998.

Journal of Sustainable Forestry, since 1992.

Evolutionary Trends in Plants, 1987–1992.

Journal of Tree Sciences, 1986–1991.

Journal of the Arnold Arboretum, 1986–1990.

Economic Botany, since 1997.

Conservation Biology, Associate Editor 1987–1993.

##### SELECTED BOARD MEMBERSHIPS

S M Sehgal Foundation, Gurgaon, India. Trustee, since 2005.

Center for Interdisciplinary Studies in Environment and Development, Bangalore, Founder and Trustee, 2000–2009.

Solutions Benefiting Life, Sudbury, MA, since 2005.

New England Forestry Foundation, Groton, MA, 2000– 2004.

Ashoka Trust for Research in Ecology and Environment, Belmont, MA, Governing Board Chairman, since 1996, President, since 1996–

Ashoka Trust for Research in Ecology and Environment, Bangalore, India, Founder and Trustee, since 1996.

Foundation for Rehabilitation of Local Health Traditions, Bangalore, India, since 1998.

**INVITED PRESENTATIONS IN SYMPOSIA AND CONFERNCES ( Only Until 2016)**

First International Agrobiodiversity Congress, New Delhi, Nov 6-8, 2016

Radcliffe College Symposium on Himalaya Tectonics and Biodiversity, August 23, 2016

Sustainability Science Symposium, JFK School of Government, Harvard University, May 20,21, 2016

Harvard University Executive Education Program, April 26, 2016

Harvard College Conservation Society, Cambridge, MA March 5, 2016

S. R. Kashyap Lecture, Punjab University, Chandigarh, India, February 6, 2015

Mussoorie Writers’ Festival, Mussoorie, India. Lecture and Panel Discussion. October 22, 23, 2015

Foundation Day Lecture, Punjab University, Chandigarh, India October 19, 2015

Asian Elephant Conference in Guwahati, Keynote Lecture, November 7, 2015

Critical Ecosystems Program Fund, Conservation International. Concluding Workshop on Western Ghats Biodiversity Hotspot, August 2,3 2015

IPBES 3rd author meeting: Thematic Assessment of Pollinators, Pollination and Food Production,

Rome, Italy 27-31 July 2015

SANDEE Workshop on Ecosystem Services, Bangalore, April 14-15, 2015

“START Workshop,” Delhi, India, January 22-23, 2014

“Climate Change and Livelihoods in the Himalaya,” United Nations University, Tokyo, October 22, 2014.

“Biodiversity Informatics Workshop,” co-organizer, sponsored by the Indo-US Science and Technology Cooperative Program, Bangalore, India. 21–23 January 2013.

“Ecosystem Services in Mountains Synthesis” Workshop. Sponsored by Mountain Research Institute, Bern, Switzerland 11–14 September 2012.

“Ecosystem Services and Poverty Alleviation,” workshop sponsored by ESPA. Oxford, May 27–29, 2012.

“Climate Change in Mountains,” workshop sponsored by NatureServe and MacArthur Foundation, Cali, Colombia. March 20–22, 2012.

“Himalayas: Environment, Culture and Livelihoods” keynote, Yale University. May 11, 2011.

“Land Use Change,” workshop sponsored by CSIRO. Sydney. April 4–8, 2011.

Conference to Honor Ignacy Sachs, Grenoble, France. June 3, 2011.

“Science and Diplomacy,” workshop sponsored by AAAS, Washington, DC. May 22, 2010.

“National Consultation on Taxonomy,” panelist. Bangalore, India. March 2010.

“Climate Change and Food Security,” International Conference, M. S. Swaminathan Research Foundation, Chennai, India, February 15–17, 2010.

“Darwin and Human Evolution,” Asiatic Society, Calcutta. February 10–12, 2010.

“International Forum on Biodiversity and Climate Change,” keynote. Bogota, Colombia. November 5–6, 2009.

“Biodiversity Change and Human Well-Being,” organizer. DIVERSITAS Open Science Congress, Cape Town. October 13–16, 2009.

“Invasive Species,” DIVERSITAS Open Science Congress, Cape Town, October 13–16, 2009.

“Human Dimensions of Biodiversity Change,” workshop organizer. International Union of Biological Sciences, Cape Town. October 11, 2009.

“Traditional Knowledge and Environmental Change,” co-organizer. International Union of Biological Sciences, Cape Town. October 8, 2010.

“New Approaches to Monitoring Biodiversity,” Society for Conservation Biology Annual Meeting, Beijing. July 11–16, 2009.

“International Conference on Canopy Research,” keynote. Bangalore, India. October 2009.

“Global Taxonomy Partnership Fund,” Museum of Natural History, Paris. June 17–18, 2009.

“Global Taxonomy Initiative of Bionet,” Teddington, England. June 406, 2009.

“Indian Traditional Knowledge: History, Influences, and New Directions for Natural Science,” International Conference, Bangalore, India. February 22–24, 2009.

“Integrating Traditional and Scientific Knowledge,” Missouri Botanical Garden. November 5, 2008.

“International Conference on Tropical Rainforests and Agroforests Under Global Change,” keynote. Bali, Indonesia. October 9–10, 2008.

“International Conference on Sustaining Biocultural Diversity,” panelist. American Museum of Natural History, New York. April 2008.

“International Symposium on Agrobiodiversity,” University of California, Davis. April 2008.

“Encyclopedia of Life” Meetings, St. Louis. MO. November 2007.

“Association for Tropical Biology and Conservation,” keynote. Annual Meeting, Morelia, Mexico. August 2007.

“Biological Sciences for the 21st Century. Meeting the challenges of sustainability in an era of global change.” International Union of Biological Sciences Conference. “Capacity Building,” panel chair. Washington, DC. May 2007.

“Unshackling Tropical Biology,” keynote. Annual Meeting, Association for Tropical Biology and Conservation, Morelia, Mexico, July 2007.

“Community-Based Conservation,” International Conference on Participatory Plant Breeding, Chennai, India, October 2006.

Canadian Botanical Association, keynote. Annual Meeting, Montreal, June 2006.

“Regional Cooperation in Biodiversity Hotspots of the South Asian Region,” workshop. Bangalore, India. September 2004.

“Greening of Agriculture” workshop, DIVERSITAS, Alexandria, Egypt. May 2004.

“Research Priorities in Tropical Biology,” workshop organizer. Association for Tropical Biology and Conservation Annual Meeting, Aberdeen, Scotland. July 2003.

“Human Dimensions of Biodiversity Loss,” workshop organizer. US National Committee of the International Union of Biological Sciences, Washington, DC. October 2002.

“Research Priorities in Tropical Biology,” workshop organizer. Association for Tropical Biology Annual Meeting, Panama City, Panama. July–August 2002.

“Non Timber Forest Products,” Association for Tropical Biology and Annual Meeting, Panama City, Panama. July–August 2002.

“Land Use And Land Cover Change,” Association for Tropical Biology Annual Meeting, Panama City, Panama. July–August 2002.

“Demography of Non Timber Forest Product Species,” Society for Economic Botany Annual Meetings, New York Annual Meeting, NY. June 22–28, 2002.

“Integrated Management for Sustainable Agriculture,” International Conference keynote. Forestry and Fisheries. CIAT, Cali, Colombia. August 2001.

“Tropical Ecosystems: Structure, Diversity and Human Welfare,” four symposia at international conference, Bangalore, India. July 2001.

“Climate Change and Biodiversity,” International Union for Conservation of Nature (IUCN), Gland, Switzerland. February 2001.

“Conservation of Forest Genetic Resources,” Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore. July 2000.

“Sustainable Use and Management of Tropical Forests,” distinguished lecture, Biodiversity Institute, University of Agricultural Sciences, Uppsala, Sweden. April 2000.

“Natural Resource Management and Agricultural Production,” International Conference, Indian Agricultural Research Institute, New Delhi. February 2000.

“Global Change and Biodiversity,” International Botanical Congress. St. Louis, MO. August 1999.

“Forest Fragmentation and Genetic Diversity,” International Botanical Congress, St. Louis, MO. August 1999.

“Ethnoecology and Traditional Knowledge,” International Botanical Congress, St. Louis, MO. August 1999.

“Evolution and Development,” University Of Minas Gerais, Minas Gerias, Brazil. December 1999.

“Fiftieth Brazilian Botanical Congress,” keynote. July 1999.

“Conservation of Plant Genetic Resources,” International Congress of Genetics, Beijing, China. August 1998.

“Community-Based Conservation,” International Conference on Medicinal Plants, Bangalore, India. February 1998.

“Data Requirements for Land Use Change,” Paper on Data Requirements for Biodiversity Conservation, Barcelona, Spain. November 1997.

“Gene Flow in Tropical Trees,” Annual Meeting of Association for Tropical Biology. July 1998.

“Land Use Change in South Asia,” Meeting on Earth’s Changing Land, Barcelona, Spain. March 1998.

“Biodiversity Losses: Magnitude and Solutions,” AIBS Meeting, Montreal, Canada. August 1997.

“Deforestation and Conservation of Biodiversity in Western Ghats,” MacArthur Grantees Meeting, Kunming, China. April 1997.

“Land Use and Biodiversity Conservation,” International Workshop on Land Use and Land Cover Change. Himalaya Climate Center, Kathmandu, Nepal. April 1997.

“Conservation Of Biodiversity in the Western Ghats,” Salim Ali School of Ecology Centenary Symposium. November 1996.

“Brazilian Genetics Congress,” Plenary Lecture. September 1996.

“Measuring Conservation Impact: An Interdisciplinary Approach to Project Monitoring and Evaluation. ESA/SCB Meetings. Providence, RI. August 1996.

“Thinking Globally and Working Globally: Ecological Insights Form Interregional Comparative Studies,” ESA/SCB Meetings. Providence, RI. August 1996.

“Building Ecological Management Capacity Within Developing Nations: Relevance of Core Principles and Tools of Ecological Science,” Ecological Society of America/Society for Conservation Biology Annual Combined Meeting. August 1996.

“Diversity and Adaptation in Forest Ecosystems in a Changing World,” University of British Columbia, Vancouver, Canada. August 1996.

“International Workshop on Sustainable Forest Management: Monitoring and Verification of Greenhouse Gas Flows,” San Jose, Costa Rica. July 1996.

“International Corporate Biodiversity Group: Review of the Bioprospecting Program,” National Institutes of Health, Bethesda, MD. July 1996.

“Setting Priorities for the Conservation of Biodiversity,” World Wildlife Fund. New Delhi, India. April 1996.

“Permanent Forest Plots and Biodiversity,” keynote. Karnataka Forest Department. Bangalore, India. April 1996.

“Population, Environment, and Development,” TATA Energy Research Institute. Washington, DC. March 1996.

“In Situ Conservation of Forest Genetic Resources,” workshop. Center for International Forestry Research. Bogor, Indonesia. November 1995.

“Climate Change and Tropical Forests,” San Juan, Puerto Rico. April 1995.

“Priority Setting for Conservation in Asia,” Baltimore, MD. April 1995.

“Expert Consultation on Non-wood Forest Products,” Yogjakarta, Indonesia. January 1995.

“Measurement and Monitoring of Biodiversity,” Chiang Mai, Thailand. August 1994.

“Management of Tropical Forests,” Guadalajara, Mexico. July 1994.

“Indigenous Knowledge and Conservation,” Kathmandu, Nepal. April 1994.

“Genetic Conservation and Production of Seed in Tropical Forest Trees,” Chiang Mai, Thailand. June 1993.

“Conservation of Biodiversity in The Himalayas,” G. B. Plant Institute of Himalayan Environment and Development, Almora, India. October 1992.

“Methods for Social Science Research on Non-Timber Forest Products,” Bangkok, Thailand. May 1992.

“Research Agenda for Biodiversity,” Harvard Forest, Petersham, MA. June 1991.

“Conservation of Biodiversity,” Kuala Lumpur, Malaysia, June 1990.

“Biology of Rare Plants: Implications for Conservation and Management,” St. Louis, MO. March 1989.

“Genetic Diversity In Tropical Forest Trees: Implications For Conservation Biology,” AIBS Meeting at Davis, California. August 1988.

“Evolution and Maintenance of Biotic Diversity in The Tropics: The Role Of Ecological Factors” Workshop organized to celebrate the Silver Jubilee Anniversary of the Organization for Tropical Studies, La Selva, Costa Rica. June 1988.

Twenty Five Years of Organismic and Population Biology Meeting organized to celebrate the Silver Jubilee Anniversary of the Organization for Tropical Studies. Miami. June 1988.

International Conference: Research in Plant Sciences and Its Relevance to Future, Delhi, India. March 1988.

“Conservation Biology,” First Asian School, Bangalore, India. December 1987.

“Rehabilitation of Disturbed Ecosystems: A Global View,” Varanasi, India. December 1987.

“Synecology of Flowers and Their Pollinators,” International Botanical Congress, Berlin, August 1987.

“Sexual Dimorphism in Plants,” organizer and participant. International Botanical Congress, Berlin. August 1987.

“Reproductive Ecology of Tropical Forest Plants,” organizer and participant. MAB Program of UNESCO and the Decade of Tropics Program of IUBS. Bangi, Malapsia. June 1987.

“Ecology and Management of Tropical Rain Forests,” Guri, Venezuela. November 1986.

“Tropical Forest Regeneration: Conservation and Management,” Harvard Forest, Petersham, MA. July 1985.

“Labile Sexuality in Plants,” AIBS Meeting at Fort Collins, CO. August 1984.

“Changing Concepts of Gemetophytic Self-Incompatibility in Plants,” AIBS Meeting at Fort Collins, CO. August 1984.

“Advances in Chromosomal Cytology and Self-Incompatibility,” Post-International Genetics Congress Symposium. Punjab University, Chandigarh, India. December 1983.

“Perspectives in Population Biology of Tropical Forest Trees,” organizer and participant, AIBS Meeting at University Park, PA. August 1982.

“Evolution of Dioecy,” AIBS Meeting at University Park, PA. August 1982.

“Pollination and Evolution,” International Botanical Congress, Sydney, Australia. August 1981.

“Speciation in Tropical Rain Forest Trees,” International Botanical Congress, Sydney, Australia. August 1981.

“Reproductive Strategies in Plants and Animals,” 27th Annual Systematics Symposium of the Missouri Botanical Garden, sponsored in part by the National Science Foundation. October 1980.

“Evolution of Patterns of Sexuality,” organizer and participant, 2nd International Congress in Systematics and Evolutionary Biology. Vancouver, BC. July 1980.

“Tropical Ecology of Costa Rica,” AIBS Meeting at Stillwater, OK. August 1979.

Symposium of the International Society of Tropical Ecology, Kuala Lumpur. April 1979.

“Reproduction in Flowering Plants,” symposium held in Christchurch, New Zealand. February 1979.

“Modern Trends in Plant Taxonomy, held at the National Botanical Research Institute,” Lucknow, India. March 1978.

“Tropical Trees,” Cabot Foundation (Fourth Cabot Symposium), Harvard University, April 1976; and XVI IUFRO World Congress, Oslo, Norway (Chaired a session; no paper presented). June–July 1976.

“Variation, Breeding, and Conservation of Tropical Forest Trees,” Linnean Society of London at Oxford. April 1975.

“Tropical Ecosystems,” Ecological Society of America at the Annual AAAS Meetings in Mexico City. June 1973.

**Awards and Grants**

Barr Foundation. Climate Change in Eastern Himalaya. $450,000/3 yrs. 2015.

National Science Foundation. Tropical Forests Today: Reproduction and Conservation in the Face of Global Change. $151,526/2 yrs. 2014.

Climber Scientist Program. Climate Change in Himalaya. $97,000/1 yr. 2012.

National Science Foundation. Research Priorities in Tropical Forest Canopies. $25,000/1 yr. 2011.

MacArthur Foundation. Exploration and Sustainable Use of Biodiversity in Eastern Himalayas. $250,000/2 yrs. 2009.

National Science Foundation. Workshops to Articulate and Disseminate Research Priorities in Tropical Biology. $32,000. 2009.

Blue Moon Fund. Enhancing Conservation and Livelihood Security in Biodiversity Hotspots $600,000/3 yrs. 2008.

JRS Biodiversity Foundation. Ecoinformatics for Conservation and Sustainable Use. $175,980/2 yrs. 2007.

Save the Tiger Fund. Conservation of Biological Diversity at the Manas World Heritage Biodiversity Site, Assam, India. $66,000/1 yr, 2002.

Blue Moon Fund. Engaging Markets to Advance Conservation and Rural Livelihoods. $195,000/3 yrs. 2002.

Conservation International. Preparation of the Western Ghats Profile. $165,000/1 yr. 2002.

Millennium Ecosystem Assessment Program. Sub-Global Assessment of Western Ghats and Eastern Himalayas. $30,000/1yr. 2002.

National Science Foundation. Impact of Land Use and Land Cover Change on the Breeding Systems of Cordia. $350,000/3 yrs. 2002.

Sehgal Family Foundation, 3-yr grant on Checklist of India’s plants. $450,000. 2002.

National Science Foundation. Support for a workshop on Research Priorities in Tropical Biology, $24,000. 2002.

Ford Foundation, New Delhi, $30,000. Individual grant. 2001.

NSF-REU Program for Mentoring Minority Students in Environmental Biology and Conservation (Co-PI). $350,000. 3-yr grant. 2001.

National Science Foundation. Support for an international conference on Tropical Ecosystems. $50,000. 2001.

National Science Foundation. Mentoring for minority students in Environmental Biology. (Roger Wrubel, Principal Investigator) $274,000/3 yrs. 2000.

Ford Foundation, New Delhi. Institutional Support for Ashoka Trust for Research in Ecology and the Environment. $800,000/3 yrs. 2000.

Conservation, Food, and Health Foundation.Impact of Human Populations on Biodiversity in Protected Areas of India. (Awarded to Support the doctoral research of Mr. S. Jha) $12,000/2 yrs. 1998.

Conservation, Food, and Health Foundation. Institutional Resource Development. (Awarded to Ashoka Trust for Research in Ecology and Environment, Belmont, MA). $23,000 (including $11,000 in 1997). 1998.

MacArthur Foundation, Conservation of Biodiversity in the Eastern Himalayas Small Grants Program. (Grant Awarded to Ashoka Trust for Research in Ecology and Environment, Belmont, MA). $200,000/3 yrs. 1998.

MacArthur Foundation, Research, Action, Policy Inputs, and Capacity Building for Biodiversity Conservation. 370,000/3 yrs. 1998.

International Plant Genetics Resources Institute. *In Situ* Conservation of Forest Genetic Resources in Costa Rica. $25,000/2 yrs. 1996.

International Plant Genetics Resources Institute. Conservation of Forest Genetic Resources in the Western Ghats. $30,000/2 yrs. 1996.

National Science Foundation. Graduate Research Training Grant. (Michael Rex, Principal Investigator)$525,000/5 yrs. 1995.

National Institutes of Health. Bioprospecting for Potential Insecticides. $120,000/3 yrs. 1995.

World Wildlife Fund. An integrated Approach Towards the Management of Tropical Forests for Extraction on Non-timber Forest products. $610,000/3 yrs. 1995.

MacArthur Foundation. Conservation of Biodiversity in the Western Ghats and Eastern Himalayas. $360,000/3 yrs. 1994.

National Science Foundation. Conservation Genetics of Tropical Forestries. $275,000/3 yrs. 1994.

World Wildlife Fund. Conservation of Biodiversity in the Western Ghats, India. $50,000/1 yr. 1993.

Educational Foundation of America. Rainforest Collaboration: An Educational Project. (Joan Tonn, Principal Investigator) $175,000. 1991.

MacArthur Foundation and Tata Energy Research Institute, New Delhi, India. Deforestation and Loss of Biodiversity in the Western Ghats, $275,000/3 yrs. 1991.

Pew Scholarship, Pew Scholars Program in Conservation and the Environment, Conservation and Management of Forest Genetic Resources. $150,000/3 yrs. 1991.

Conservation Food and Health Foundation. Conservation and Management of Tropical Forest Genetic Resources, $10,000. 1990.

National Science Foundation, Genetic Variation, effective population size, mating systems and gene flow in tropical rain forest trees. $303,000/3 yrs. 1990.

Agency for International Development. Understanding the maintenance of tree species richness for silvicultural and conservation management (co-principal Investigator with Dr. Peter Ashton of Harvard University and Drs. N. and S. Gunatilleke of University of Peradeniya, Sri Lanka). $150,000/3 yrs. 1988.

Guggenheim Fellowship. 1987.

National Science Foundation, Research Experiences for Undergraduates. $40,000. 1987.

National Science Foundation, Equipment to support research in population genetics, $30,000. 1985.

Agency for International Development. Population biology of tropical plants in relation to conservation and domestication. $150,000 for 3 yrs, co-principal investigator with Dr. Peter Ashton of Harvard University and Drs. N. and S. Gunatilleke of the University of Peradeniya, Sri Lanka. 1984.

Smithsonian Institution, Conversion Rates of Indian Forests, $9500/1 yr. 1983.

National Science Foundation, Genetic Variation in Tropical Forest Trees, $155,590./3 yrs. 1982–1985.

National Science Foundation URP Grant (SMI 76-83985, Undergraduate Research Participation, $29,550/3 yrs. 1977–1979.

National Science Foundation, Equipment Grant, $5,600.00 ($2,800. with matching funds from University of Massachusetts). 1979.

National Science Foundation Grant (DEB 77-25558), Breeding Systems of Tree Species of a Tropical Rain Forest, $133,000.00/3 yrs. 1978–1981.

Smithsonian Institution, Reproductive Biology of Tropical Forest Trees in India, $4,100. 1977.

National Science Foundation URP Grant (SMI 75-03852), Undergraduate Research Participation, $8,600/1 yr. 1976.

National Science Foundation Grant (DEB 75-21018), Breeding Systems of Tree Species of a Tropical Rain Forest. $48,700/2 yrs. 1975.

Charles Bullard and Maria Moors Cabot Research Fellowships in Forest Sciences at Harvard University. 1972.

National Science Foundation Grant, Breeding Systems of Tree Species of a Tropical Deciduous Forest, $20,000. (participating scientist) 1970.

Organization for Tropical Studies Pilot Study, Breeding Systems of Tree Species of a Tropical Deciduous Forest, $3,000. 1970.

Organization for Tropical Studies Pilot Study, Chromosome Numbers in Tropical Tree Species, $3,000. 1969.

**PUBLICATIONS** (excluding published abstracts and book reviews)

#### *Books and Monographs*

Ashton, M. S., U. Goodale, K. S. Bawa, J. E. Niedel, and P.S. Ashton (eds). 2014. Special Section on Restoring Working Forests in Human Dominated Landscapes of South Asia. *Forest Ecology and Management.* 329: 384–400*.*

Bawa, K. S. and Sandesh Kadur. 2013. *Himalaya; Mountains of Life.* Ashoka Trust for Research in Ecology and the Environment, Bangalore, India. 324pp.

Bawa, K. S., Richard Primack, and Meera Ommeen. 2010. *Conservation Biology: A Primer for South Asia.* Universities Press, Hyderabad. 577pp.

Jackson, L., U. Pascual, L. Brussard, P. de Ruiter, and K. S. Bawa (eds*.*) July 2007. *Biodiversity in Agricultural Landscapes: Investing Without Losing Interest*. Special Issue of *Agriculture, Ecosystems and Environment*.

Kadur, S and K. S. Bawa. 2005. *Sahyadris: India’s Western Ghats*. Ashoka Trust for Research in Ecology and the Environment, Bangalore, India. 245pp.

Seidler, R. and K. S. Bawa (eds). 2004. *Dimensions of Sustainable Development*. UNESCO. ELOSS. [http://www.eolss.net/E1-46B-toc.aspx](about:blank).

Ganeshaiah, K. N., R. U. Shaanker, and K. S. Bawa (eds.) 2001. *Tropical Ecosystems: Structure, Diversity and Human Welfare*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd. 792pp.

Ganeshaiah, K. N., R. U. Shaanker, K. S. Bawa (eds.) 2001 *Forest Genetic Resources: Status, Threats and Conservation Strategies*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd. 317pp.

McDade, L., K. S. Bawa, H. Hespenheide, G. Hartshorn (eds.). 1994. *La Selva: Ecology and Natural History of a Neotropical Rain Forest*. University of Chicago Press, Chicago. 488pp.

National Academy of Sciences/National Research Council. 1991. *Managing Forest Genetic Resources: Forest Trees*. National Academy Press, Washington, DC. 228pp.

Bawa, K. S., and M. Hadley (eds.). 1990. *Reproductive Ecology of Tropical Forest Plants*. UNESCO, Paris and Parthenon Publishing Group, Cranforth, UK. 421pp.

Bawa, K. S., P. S. Ashton, R. B. Primack, J. Terborgh, F. Ng, S. M. Nor and M. Hadley. 1989*. Reproduction Ecology of Tropical Forest Plants: Research Insights and Management Implication*. Biology International Special Issue, Vol. 21. 56pp.

***Journal Publications and Book Chapters***

Gordon, I.J., K. Bawa, G. Bammer, C. Boone, J. Dunne, D. Hart, J. Hellmann, A. Miller, M. New, J. Ometto, S. Pickett, G. Wendorf, A. Agrawal, P. Bertsch, C. D. Campbell, P. Dodd, A. Janetos, H. Mallee and K. Taylor. 2019. Forging future organizational leaders for sustainability science. *Nature Sustainability* 2: 647-649.

Bawa, K.S. 2019. Sustainability Science Remains a Challenge for Academia. *Ecology, Economy and Society–the INSEE Journal* 2 (2): 1–2

Bawa, K.S. 2019. Environment, Sustainability and Equity. *Ecology, Economy and Society–the INSEE Journal* 2 (1): 1–2

Rai, N., K.S. Bawa 2109. Giving rights to forest dwellers will not harm India’s forests. Hindustan Times, July 18 , 2019. [https://www.hindustantimes.com/analysis/giving-rights-to-forest-dwellers-will-not-harm-india-s-forests/story-7Ylyoz2rYPMpQHqpFwrnWJ.htm](about:blank)

Bawa, K. S., T. Ingty, L. Revell and K.N. Shiva Parkash. 2019. Correlated evolution of flower size and seed number in flowering plants (monocotyledons). *Annals of Botany* **123**: 181–190.

Junguo Liu, K. S. Bawa, T. P. Seager et al., 2019. On knowledge generation and use for

sustainability. *Nature Sustainability* 3:80-82

Divakaran P., K., R. Pethiyagoda, K S. Bawa, P. H. Raven, P. Dharma Rajan**.** 2018 When the

cure kills—CBD limits biodiversity research. *Science* 360:1405-1406.

Shrestha, S., U. B. Shrestha, and K. Bawa. 2018. Socio-economic factors and management

regimes as drivers of tree cover change in Nepal. *PeerJ*, DOI 10.7717/peerj.4855

Seidler, R. K. Dietrich, S. Schweizer, K. S. Bawa, et al, 2018. Progress on integrating climate

change adaptation and disaster risk reduction for sustainable development pathways in South Asia: Evidence from six research projects. *International Journal of Disaster Risk Reduction* 31 . 92–101

Bawa, K.S. and R. Ganesan. 2017. Document India’s floral biodiversity. *Nature*, 546: 474.

Shrestha,S., U. B. Shrestha , K. S. Bawa. 2017. Contribution of REDD? Payments to the

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