

**Degrees**

- B.S. 1963, Cornell University (Conservation)
- M.S. 1966, University of Michigan, Ann Arbor (Zoology)
- Ph. D. 1969, University of Michigan, Ann Arbor (Zoology)

**Employment and visiting positions**

Current position: Distinguished Professor Emeritus, Department of Ecology and Evolution, Stony Brook University.

State University of New York at Stony Brook, Dept. of Ecology and Evolution: Assistant Professor 1969-1976, Associate Professor 1976-1983, Professor 1983-2003; named Distinguished Professor 2001; reappointed as Distinguished Professor 2004. Distinguished Professor Emeritus from May 31, 2018.

University of Michigan (Ann Arbor), Dept. of Ecology and Evolutionary Biology, Chair, 2002-3; Professor 2002-4 ; Lawrence B. Slobodkin Collegiate Professor 2003-4.

American Museum of Natural History: Research Associate, 2005-present.

**Visiting Appointments:**

- Dept. of Zoology, University of California, Berkeley, winter 1977 (Visiting Assoc. Prof.)
- Dept. of Zoology, University of Texas, Austin, March 1980 (Visiting Assoc. Prof.)
- Cornell University, Section of Ecology and Systematics and Department of Entomology, 1984-85 (Visiting Prof.)
- Università di Padova, Italy, March 1992 (Visiting Prof.)
- Smithsonian Institution (National Museum of Natural History), Washington, D.C., 1992-93
- University of Miami, Florida, February 1994 (Distinguished Visiting Professor)
- University of Melbourne (Australia), School of Botany, Sept. 1999-Feb. 2000 (Fellow)
- LaTrobe University (Australia), Dept. of Genetics, Jan. - June 2000 (Honorary Visiting Fellow)
- James Cook University (Australia), School of Tropical Biology, 2000 (Visiting Professor)
- New York University, Center for Genomics and Complex Systems, 2012-13 (Visiting Scholar)

**Honors, awards:**

- SUNY Chancellor's Award for Excellence in Teaching, 1974
- John Simon Guggenheim Fellow, 1992-93
- Fellow, American Association for the Advancement of Science, 1985
- Fellow, American Academy of Arts and Sciences, 1996
- Sewall Wright Award, American Society of Naturalists, 1997

Fulbright Senior Scholar, USIA Fulbright Senior Scholar Program, for lecturing and research at LaTrobe University, University of Melbourne, James Cook University, Australia, AY 1999-2000

Tetelman Fellow, Jonathan Edwards College, Yale University, April 2006

National Academy of Sciences of the U.S.A., elected member April 25, 2006

Joseph Leidy Award, Academy of Natural Sciences of Drexel University (formerly Academy of Natural Sciences of Philadelphia), October 2012

Honorary Doctor, National University of Mongolia, May 2013

Marquis Who's Who: Albert Nelson Marquis Lifetime Achievement Award, 2018

### **Grants:**

SUNY Faculty Research Fellowship, 1971, 1973

Whitehall Foundation grant, 1983-1985

National Science Foundation grants 1974-76, 1976-79, 1979-81, 1983-85, 1986-89, 1989-93, 1995-99, 2001-06 (co-PI with F. VencI) (all from Population Biology and Physiological Ecology, Systematics); Dissertation Improvement grants for graduate students, 1988, 1991, 1993, 1993, 1998, 2002.

### **Professional societies and positions held**

Society for the Study of Evolution

Member since 1963

Councillor, 1980-82

Associate Editor of *Evolution*, 1980

Editor of *Evolution*, 1981-1983

President, 1987

Editorial search committee, chair, 1998

Education committee, 1997-1999

Committee on Evolution and Society (chair), 2000

Book review Editor of *Evolution*, 2000-2002, 2004-6

American Society of Naturalists

Member since 1963

Editorial search committee, chair, 1989; member, 1997

President, 1994

Working group on Evolution, Science and Society, Editorial Co-chair, 1995-98 (for preparation of document on "Evolution, Science and Society")

American Association for the Advancement of Science

Reviewing Editor for *Science*, 1985

American Institute of Biological Sciences

Board of Directors, 1995-96

President 2007, Past President 2008

*Journal of Evolutionary Biology*, editorial board 1995-97

*Mitteilungen aus dem Museum für Naturkunde in Berlin, Zoologische Reihe*: advisory board, 1998-2007

Sigma Xi (member)

*Quarterly Review of Biology*, editor 2000-2002; consultant 1979-2000.

*Annual Review of Ecology and Systematics* (later *Annual Review of Ecology, Evolution, and Systematics*), Editorial Board 1987-1991, Associate Editor 1992 - 2001; Editor 2002 - present.

*Proceedings of the National Academy of Sciences*, Editorial board, 2008-present

### **Other professional service and activities**

Organization for Tropical Studies (Costa Rica)

Tropical Biology course co-coordinator 1971, 1984; full-time faculty 1966, 1969, 1974; part-time faculty 1981, 1989, 1990, 1991, 1994, 2001, 2002, 2013; Institutional representative 1992-98, 2013-.

Visiting faculty, Univ. of Minnesota Biological Station, 1978

National Science Foundation, Population Biology and Physiological Ecology panel member 1984-1987

New York Council for Evolution Education, Executive Board, 1984 -88

National Research Council Committee on Research Opportunities in Biology, Panel on Evolution and Diversity, 1988

American Institute of Biological Sciences, Task Force for the '90's, 1990

Systematics Agenda 2000 (Standing Committee on Comparative Physiology), 1991

Comité Asesor, Museo de la Historia Natural de la Amazonia, Iquitos, Peru, 1991

Review panel for Swedish National Research Council for chemical ecology research, 1987

Uppsala University (Sweden), Appointments Committees for Conservation Biology (1990) and Entomology (1993); Science Policy Advisory Committee, 1991

Swiss Academy of Sciences, workshop on education and research in organismal biology, 1987  
Batsheva de Rothschild Frontiers of Science Workshop on Evolution, Israel, Jan. 1999 (review panel to assess evolutionary biology in Israel)

Ph. D. defense opponent, Dept. of Zoology, Stockholm University (Sweden), March 1999

NSF Workshop on National Center for Evolutionary Synthesis, Arlington, Va., May 2001

President's ad hoc committee on tenured appointment, Harvard University, March 2003

Academic Review Panel (chair) for Dept. of Ecology and Evolutionary Biology, University of Arizona, April 2003

Consultant, "Darwin" exhibit, American Museum of Natural History, 2005

Evolution Education Working Group, National Evolutionary Synthesis Center, 2006-

National Research Council, Ad hoc committee for report, "Conceptual Basis of Biology," 2006-7

Editorial board member, "Evolution Education and Outreach" (Springer), 2007- .

Consultant, Koshland Museum (National Academy of Science) "Darwin's Legacy" exhibit, 2007

Editorial board, *Proceedings of the National Academy of Sciences of the U.S.A.*, 2007- present

Conference "Public Interfaces of Science: Identifying Opportunities for the National Academies," October 28-29, 2010, Washington, D.C., The National Academies. (Invited participant)

Member, Visiting Review Committee, Graduate Program, Cornell University, 1983

Member, Visiting Review Committee, Biology Department, College of William and Mary, 1985

Member, Visiting Review Committee, Graduate Program, University of Chicago, 1988

Member, Visiting Review Committee, Graduate Program, Duke University, 1990

Member, Visiting Review Committee, Graduate Program, Harvard University 2001, 2007 (chair)

Member, Visiting Review Committee, Graduate Program, University of California-Irvine, 2001  
Member, Visiting Review Committee, Graduate Program, University of Arizona, 2003  
Member, Visiting Review Committee, Graduate Program, University of Montana, 2008  
Member, Visiting Review Committee, Graduate Program, University of Minnesota, 2011  
Member, Visiting Review Committee, Department of Biological Sciences, University of Maryland (College Park), 2012  
Member, Visiting Review Committee, Department of Biological Sciences, National University of Singapore, January 2014  
Member, Visiting Review Committee, Department of Biology, McGill University, 2015  
Member, Professional Accomplishment Evaluation Committee, Smithsonian Tropical Research Institute, 2014- present.  
Visiting Professor, Instituto de Biologia, Universidade de São Paulo, São Paulo, Brazil, July-August 2018  
Member, Visiting Review Committee, University of California –Riverside, March 2019  
Member, Personnel Advancemnt Evaluation Committee, Smithsonian Tropical Research Institute, 2013-2023

## **Symposia and presentations**

### Symposia organized:

Society for the Study of Evolution (SSE) (symposia on Coevolution and on History of Evolutionary Controversies; also co-organizer of meeting held at SUSB, 1982)  
Society for the Study of Evolution, 1988 (Phylogeny and Evolutionary Processes)  
Society for the Study of Evolution and Society of Systematic Biologists, 1993 (Phylogenetic Studies of Interspecific Interactions, co-organizer)  
XXII International Congress of Entomology, Brisbane, Australia, 2004 (Section co-coordinator, genetics and evolutionary biology)  
American Institute of Biological Sciences symposium, “Evolutionary Biology and Human Health,” May 2007, Washington, D.C.  
Darwin 200 symposium, Stony Brook University (NSF-supported), November 2009 (member, organizing committee)

### Invited symposium and congress presentations (since 1987):

Presidential address, Society for the Study of Evolution, 1987  
Academy of Natural Sciences, Philadelphia (Speciation and Adaptation), 1987  
Universidade Estadual de Campinas, Brazil (Evolutionary Ecology of Tropical Plants and Herbivores), 1988  
Hamilton College, New York (Theories of Time and Change), 1989  
Columbus, Ohio, Workshop on Philosophical Issues in Evolution, 1988  
Field Museum of Natural History (Chicago) (History and Evolution), 1989  
International Congress of Chemical Ecology, Gothenburg, Sweden, 1989  
Entomological Society of America (Phylogenetics of Insect-Plant Associations), 1989  
IV International Congress of Systematic and Evolutionary Biology, College Park, Md. (plenary speaker), 1990  
British Ecological Society Symposium, Norwich (Genes in Ecology), 1991  
Iquitos, Peru (Biodiversidad en la Amazonia), 2 presentations in Spanish, 1990

NSF Workshop, Friday Harbor, Wash. (Evolutionary, Population, and Community Responses to Global Change), 1991

Eighth International Symposium on Insect-Plant Relationships, Wageningen, The Netherlands, 1992

Seventeenth International Congress of Genetics, Birmingham, U.K. (Speciation Mechanisms), 1993

American Society of Naturalists presidential address and banquet speaker, joint meeting of ASN, SSE, SSB, SMBE, Athens, GA, 1994

Gordon Conference on Plant-Herbivore Interactions, invited speaker, 1995

AAAS annual meeting, symposium on Biodiversity and Social Needs, invited speaker, 1995

Amer. Soc. of Zoologists annual meeting, symposium on Applications of Phylogeny, invited speaker, 1995

Royal Society discussion meeting, Plant Life Histories, London, Feb. 1996

Institute of Evolutionary and Ecological Sciences Sixth Annual Symposium, University of Leiden, The Netherlands: the Swets and Zeitlinger Lecture, March 1998

Dickfest 98 (retirement symposium for Prof. R. C. Lewontin, Harvard University), Sept. 1998

International Symposium of the Society for the Study of Species Biology, Kyoto, Japan, April 1999

X International Symposium on Biological Control of Weeds, Bozeman, Mont., July 1999

V Student Congress in Biology, Universidade Estadual de Campinas, Brazil, plenary speaker, October 2001

American Institute of Biological Sciences annual meeting, Arlington, Va., plenary speaker, March 2002

American Museum of Natural History, symposium "Assembling the Tree of Life," plenary speaker, May 2002

Entomological Society of America, symposium on "Insect Speciation," October 2003

World Summit on Evolution, San Cristobal, Galapagos Islands (Ecuador), commentator, June 2005

Biology 2006 (meeting of Swiss Societies of Zoology, Botany, and Mycology), Geneva, Switzerland; speaker, February 2006

Gordon Research Conference on Plant-Herbivore Interactions, speaker, February 2007.

"The Buffon Legacy: Natural History in the 21<sup>st</sup> Century," Université de Bourgogne, Dijon, France, plenary speaker, September 2007

Sociedad de Biología Evolutiva de Chile, inaugural meeting, Pucón, Chile, Inaugural lecture, November 2007

Southwest Consortium for Innovations in Psychology in Education, symposium on "Evolution Challenges," November 2007

Congreso Mexicano de Ecología, Mérida, Mexico, plenary speaker, November 2008

"Evolution: The Experience" (Darwin bicentennial celebration), Melbourne, Australia, February 8-13, 2009

"Evolution in Action" BioEd 2009, Symposium, Allan Wilson Centre, Christchurch, New Zealand, February 14, 2009

"Darwin en Sevilla" (Darwin bicentennial celebration), University of Seville, Spain, February 25-27, 2009

III STOQ International Conference, "Biological Evolution: Facts and Theories," Pontifical Gregorian University, Rome, Italy, March 3-7, 2009

“Symposium of Evolution, Science and Education,” Bogazici University, Istanbul Turkey, May 23-24, 2009  
 National Taiwan University and Academia Sinica, Taipei, Taiwan, “Darwin 200” lecture series, June 1-5, 2009  
 Brazilian Congress of Genetics, Aguas de Lindoia, Brazil, September 1, 2009  
 Symposium: “150 Years of Darwin’s Evolutionary Theory: A South American Celebration,” Punta del Este, Uruguay, September 3-6, 2009  
 Symposium “Evolution: 150 Years After ‘The Origin of Species’,” Instituto de Ecología, Xalapa, Mexico, October 8-9, 2009  
 Symposium “Darwin – China 200,” Peking University, Beijing, China, October 24-26, 2009  
 Universidad Central de Venezuela, Department of Biology, Caracas, Venezuela, November 24-25, 2009  
 ISPA, Lisbon, Portugal, December 21, 2009  
 III Simposium ColEvol, Red Colombiana de Biología Evolutiva, Universidad de Antioquia, Medellín, Colombia, July 28-29, 2011  
 I International Symposium on Evolutionary Biology, Cabo Branco Station of Science, Culture and Art, João Pessoa, Brazil, June 2012  
 Association for Tropical Biology and Conservation annual meeting, symposium The Ecology and Evolution of Plant Defenses, Bonito, Brazil, June 2012  
 Association for Tropical Biology and Conservation, symposium Global Change, Species Extinctions and the Coextinction of Plant-Animal Interactions, San José, Costa Rica, June 2013  
 Brazilian Society of Mammalogy, First Brazilian Symposium on Mammalian Evolution, Rio de Janeiro, Brazil, October 2013  
 ANSES Workshop on Ragweed Beetle: Fortunate Coincidence or Threat? Paris, France, April 29, 2015  
 XXV International Congress of Entomology, Symposium “From Diet Breadth to Diversification: Understanding Host Shifts in Phytophagous Insects” (keynote speaker). Orlando, Florida, September 2016.  
 Discussion Meeting: New trends in evolutionary biology: biological, philosophical and social science perspectives. The Royal Society and the British Academy, London, November 2016  
 Darwin Day lecture, Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway, February 2017  
 12. Aykut Kence Evolution Conference, Middle Eastern Technical University, Ankara, Turkey, February 10-11, 2018  
 Ecology and Evolutionary Biology Symposium, Turkey, Ankara, Turkey, July 10-12, 2019 (keynote speaker)

Other invited lectures since 1987, outside North America:

Universities of Basel and of Zurich, Switzerland, 1987  
 Uppsala University, Sweden (Nils von Hofsten Memorial Lecture), 1989  
 Smithsonian Tropical Research Institute, Panama, 1991  
 Università di Padua, Università di Roma (Tor Vergata), Italy, 1992  
 Université de Paris Sud, France, 1993

Universidad Autónoma de Barcelona; Estación Doñana de Sevilla, Spain (in Spanish), 1993  
Universidad de Valencia, Spain (Distinguished Lecturer; 2 lectures in Spanish), April 1998  
Stockholm University (Sweden), Department of Zoology, March 1999  
University of Melbourne, Australia, September 1999  
University of Western Australia, October 1999  
Monash University, Melbourne, Australia, November 1999  
Centre for Plant Biodiversity Research, CSIRO, Canberra, Australia, November 1999  
Australian National University, Canberra, November 1999  
Macquarie University, Sydney, Australia, November 1999  
LaTrobe University, Melbourne, Australia, February 2000  
University of Queensland, Brisbane, Australia, March 2000  
James Cook University, Townsville campus, Australia, March 2000  
James Cook University, Cairns campus, Australia, March 2000  
Università di Ferrara (Italy), Department of Genetics, February 2006  
Middle Eastern Technical University (Ankara, Turkey), May 2006  
Bosphorus University (Istanbul, Turkey), May 2006  
Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway, October 2007  
Pontífica Universidad Católica, Santiago, Chile, November 2007  
Universidade Estadual de Campinas, Brazil, May 2008 (series of 3 lectures)  
Congreso Mexicano de Ecología, Merida, Mexico, November 2008  
Istanbul University, Turkey, May 2009  
National Taiwan University, Department of Life Sciences, Taipei, Taiwan, June 2009  
Academia Sinica, Institute of Biodiversity, Taipei, Taiwan, June 2009  
University of Stirling, School of Natural Sciences, Stirling, Scotland, May 2012  
Delhi University, Department of Botany, Delhi, India, April 2013  
India National Science Academy, New Delhi, India, April 2013  
India International Centre, New Delhi, India, April 2013  
National University of Mongolia, Division of Ecology and Environment, Ulaan Baatar, Mongolia (2 lectures), May 2013  
Université de Fribourg, Fribourg, Switzerland, April 28, 2015

Other invited lectures since 1987, North America:

University of Toronto, Inaugural Speaker for Program in Evolutionary Biology, 1988  
Harvard University, The John M. Prather Lectures in Biology (3 lectures), 1988  
Michigan State University Kellogg Biological Station, Eminent Ecologists Seminar Series, 1989  
University of Kentucky, Annual Darwin Lecture, 1989  
University of Calgary, Annual Darwin Lecture, 1990  
San Diego State University, Distinguished Visiting Scientist, 1990  
University of California, Riverside (Boyce Lecturer, Entomology), 1992  
University of Chicago, The Sewall Wright Lecture, 1993  
University of Miami, Visiting Distinguished Professor, 1994  
Wayne State University Inaugural Symposium "Evolutionary Biology Entering the New Millennium," 1998  
North Carolina State University, W. M. Keck Center for Behavioral Biology; Professional Development Workshop, October 2005

Symposium “Darwin-Chicago 2009,” University of Chicago, November 2009  
Professional Development Day, American Museum of Natural History, New York, lecture to  
science educators, November 2009  
Symposium “Darwin 2009,” Stony Brook University, November 2009  
Panel Discussant, “Creationism in the Classroom,” City College of New York, December 2010  
USA Science and Engineering Festival, Washington, D.C., April 2012

#### Invited seminars

1987: SUNY-Binghamton, University of Massachusetts  
1988: University of Texas, University of Georgia  
1989: Duke University, Columbia University Population Biology Series, University of  
Kentucky, University of Arizona, Rutgers University  
1990: SUNY-Albany, Princeton University, University of California-Berkeley  
1991: University of Pittsburgh, University of Ottawa, University of Michigan, University  
of South Carolina, University of Washington, Carleton University, Agriculture  
Canada (Biosystematics Research Centre)  
1992: Cornell University, Ithaca College, University of Maryland, National Museum of  
Natural History  
1994: University of Arizona, University of Rochester, University of California (Davis),  
Colorado State University, Duke University  
1995: American Museum of Natural History, Penn State University, Michigan State  
University, University of New Orleans, University of Georgia  
1996: University of Oregon  
1997: Washington University, University of Tennessee ("Darwin Day" lecturer)  
1998: University of Connecticut, Miami University, Harvard University  
1999: University of Illinois, Linnaean Society of New York  
2000: The Walton Lecture, Mountain Lake Biological Station (University of Virginia)  
2001: University of Toronto, University of Oklahoma, Florida State University,  
University of Michigan  
2002: University of California-Santa Cruz, Ohio State University, University of Arizona  
(Distinguished Visiting Professor), University of Texas-Austin (Distinguished  
Lecturer), Universidad Autónoma de México (Distinguished Visiting Professor),  
University of Kentucky  
2003: University of Pittsburgh/Carnegie Museum, University of Puerto Rico Biology  
Student Symposium (plenary speaker), Midwest Ecology and Evolution Conference,  
University of Akron (plenary speaker), Michigan State University, University of  
Massachusetts  
2004: Duke University, Washtenaw (Michigan) Audubon Society, Bowling Green State  
University, Ohio (Distinguished Speaker), University of Nevada-Reno (Distinguished  
Speaker), University of California-Davis (2004), Harvard University MCZ, Mayr  
Centennial celebration  
2005: North Carolina State University,  
2006: Yale University (Tetelbaum Lecture), Manhattan College, University of Colorado  
Center for Astrobiology symposium  
2007: American Museum of Natural History, University of Wyoming (L. Floyd Clarke  
Memorial Lecturer), University of Maryland, National Museum of Natural History,



Smithsonian Institution, University of Toronto (Atwood Memorial Lecture), Texas A&M University, University of Wyoming (L. Floyd Clarke Memorial Lecture), University of Pennsylvania  
 2008: University of South Carolina  
 2009: Columbia University; Dartmouth College (Chris Reed Memorial Lecture);  
 2010: University of Miami; American Museum of Natural History; Cornell University; Provost's Lecture on Evolutionary biology, Stony Brook University (online at <https://mail.google.com/mail/u/0/#inbox/1517b32e96ff9031?projector=1>)  
 2011: University of Alabama, University of Arizona, University of Nebraska,  
 2012: Duke University  
 2013: University of California – Los Angeles  
 2015: University of Connecticut, Distinguished Ecologist and Evolutionary Biologist Series, University of Michigan  
 2016: Wichita State University, University of North Carolina  
 2017: Cornell University, University of Winnipeg  
 2018 Cambridge Entomological Club, Cambridge, Mass.  
 2020 Yale University, Hutchinson Lecture (virtual).

### **Community service and outreach**

American Museum of Natural History, public lecture (2006)  
 Guggenheim Museum, New York (“24-Hour Program on the Concept of Time” November 2008)  
 Stony Brook University “Darwin Day” lecture (2010)  
 Linnaean Society of New York, public lecture (2012)  
 Birders’ Coalition for Gateway (environmental advocacy, 2013-2014)  
 Queens County Bird Club, public lecture (November 2014)  
 Great South Bay Audubon Society (May 2016)  
 Long Pond Greenbelt Association (Bridgehampton, NY) (April 8, 2018)  
 Linnaean Society of New York, invited lecture (April 9, 2019)  
 Four Harbors Audubon Society, invited lecture (April 23, 2019)  
 New York State Ornithological Association (NYSOA), Board of Directors 2017-2019, 2019-  
 Regional compiler, winter bird records, The Kingbird (NYSOA journal), 2019-  
 Linnaean Society of New York, Board member 2021-2023; Vice-president 2023  
 Hofstra University lecture (2022)  
 Central Suffolk Audubon Society, public lecture 2022

### **Courses taught, SUNY-Stony Brook**

#### Undergraduate:

Ecology, Ecology Laboratory (until ca. 1975)  
 Adaptation and Evolution (until ca. 1974)  
 Introductory Biology (part, sporadically)  
 Evolution  
 Entomology (with lab)  
 The Living World (1999)

First-year Seminar: Evolution and Society (2011)

Graduate:

Principles of Evolution (part, annually)  
Seminar courses on evolutionary topics  
Graduate and undergraduate research and tutorial courses  
Evolutionary Ecology

Courses taught, University of Michigan

Biology Seminar (EEB 800) winter 2003 (graduate)  
Principles of Evolution (EEB 516), fall 2003 (graduate)

**Graduate students**

Major advisor for Richard P. Seifert (Ph.D. 1974), Steven Martindale (M.S. 1977), J. Daniel Hare (Ph. D. 1978), Charles Mitter (Ph.D. 1978), Steven S. Wasserman (Ph.D. 1979), Graham A. Mark (Ph.D. 1980), Carl Schlichting (M.S. 1980), Lawrence Harshman (Ph.D. 1982), Margaret E. Saks (Ph.D. 1983), Steven C. Peterson (Ph.D. 1985), Edward M. Golenberg (Ph.D. 1986), Robert S. Unnasch (Ph.D. 1990), Gabriel Moreno-Viqueira (Ph.D. 1990), Mark C. Keese (Ph.D. 1994), Sonja J. Scheffer (Ph. D. 1996), Leo Shapiro (Ph.D. 1997), Daniel J. Funk (Ph.D. 1996), Lacey Knowles (Ph. D. 1999), Gregory Bole (Ph. D. 2001), Aaron Gassmann (Ph. D. 2003), André Levy (Ph. D. 2004), Sabrina Hepburn (M.S. 2004), Rodrigo Cogni (Ph. D. 2010), Aman Gill (2014).

External member, Ph. D. committee of Carlos Robles-García, University of Miami (2005-2010)

**Publications**

I. Books

Futuyma, D. J. 1979. *Evolutionary Biology*. Sinauer, Sunderland, Mass. 565 pp. (Italian translation 1984)  
Futuyma, D.J. 1982. *Science on Trial: The Case for Evolution*. Pantheon, N.Y. 251 pp. (Italian translation)  
Futuyma, D. J. 1995. *Science on Trial: The Case for Evolution*. Sinauer. (Reissue with updated material).  
Futuyma, D. J., and M. Slatkin (eds.). 1983. *Coevolution*. Sinauer, Sunderland, Mass. 555 pp.  
Futuyma, D. J. 1986. *Evolutionary Biology*, 2d edition. Sinauer, Sunderland, Mass. 600 pp. (Translations in German 1990, Japanese 1991, Greek 1992, Portuguese 1992)  
Futuyma, D. J., and J. Antonovics (eds.). *Oxford Surveys in Evolutionary Biology*. Volumes 7 (1990), 8 (1992), 9 (1993). Oxford University Press, N.Y.  
Futuyma, D. J. 1998. *Evolutionary Biology*, 3d edition. Sinauer, Sunderland, Mass. 828 pp.  
Futuyma, D. J. 2005. *Evolution*. Sinauer, Sunderland, Mass. 603 pp. (Italian, Korean, Polish and Turkish translations 2008,)

- Futuyma, D. J. 2007. *Evolution: Das Original mit Übersetzungshilfen*. Elsevier Spektrum Akademischer Verlag, Munich. (English text of *Evolution*, with German translation aids by A. Held.)
- Futuyma, D. J. 2009. *Evolution*, second edition. Sinauer, Sunderland, Mass. (Mongolian translation 2012)
- Futuyma, D. J. 2013. *Evolution*, third edition. Sinauer, Sunderland, Mass.
- Bell, M. A., D. J. Futuyma, W. F. Eanes, and J. F. Levinton (eds.), *Evolution Since Darwin: The First 150 Years*. Sinauer, Sunderland, Mass.
- Futuyma, D. J. 2013. *The Princeton Guide to Evolution*, J. B. Losos, ed. Princeton University Press. (I was Associate Editor of the section "Adaptation and Natural Selection," and wrote an introduction to the 100-page section that includes 15 chapters.)
- Futuyma, D. J., and M. Kirkpatrick. 2017. *Evolution*, fourth edition. Sinauer Associates, Oxford University Press.
- Futuyma, D. 2021. *How Birds Evolve: What Science Reveals About Their Origin, Lives & Diversity*. Princeton University Press.
- Futuyma, D. J., and M. Kirkpatrick. 2022. *Evolution*, fifth edition. Oxford University Press
- Futuyma, D. J., editor (with H. B. Shaffer and D. Simberloff), *Annual Review of Ecology, Evolution, and Systematics*, vol 33-53 (2002 -2022).

## II. Articles

- Futuyma, D. J., C. Sutherland, and W. Birkhead. 1963. Harris's sparrow near Ithaca, New York. The Kingbird (pp).
- Hairston, N.G., J.D. Allan, R. K. Colwell, D. J. Futuyma, J. Howell, M.D. Lubin, J. Mathias, and J.H. Vandermeer. 1968. The relationship between species diversity and stability: An experimental approach with protozoa and bacteria. *Ecology* 49:1091-1101.
- Futuyma, D.J. 1969. Evolution of competition between *Drosophila melanogaster* and *Drosophila simulans*. Ph. Dissertation, University of Michigan. University Microfilms, Ann Arbor.
- Futuyma, D.J. 1970. Variation in genetic response to interspecific competition in laboratory populations of *Drosophila*. *Am. Nat.* 104:239-252.
- Colwell, R.K., and D.J. Futuyma. 1971. On the measurement of niche breadth and overlap. *Ecology* 52:567-576. (Cited as a "Citation Classic" in Current Contents, January 18, 1982. Reprinted in *The Niche: Theory and Applications*, ed. S. Levin and R.H. Whittaker.)
- Futuyma, D.J. 1973. Community structure and stability in constant environments. *Am. Nat.* 107:443-446.
- Futuyma, D.J. 1976. Food plant specialization and environmental predictability in Lepidoptera. *Am. Nat.* 110:285-292.
- Mitter, C., and D.J. Futuyma. 1977. Parthenogenesis in the fall cankerworm, *Alsophila pometaria* (Lepidoptera: Geometridae). *Ent. Exp. Appl.* 21:192-198.
- Hare, J.D., and D. J. Futuyma. 1978. Different effects of variation in *Xanthium strumarium* L. (Compositae) on two insect seed predators. *Oecologia* 39:109-120.
- Futuyma, D.J., and F. Gould. 1979. Associations of plants and insects in a deciduous forest. *Ecol. Monogr.* 49:33-50.
- Mitter, C., and D.J. Futuyma. 1979. Population genetic consequences of feeding habits in some forest Lepidoptera. *Genetics* 92:1005-1021.
- Mitter, C., D.J. Futuyma, J.C. Schneider, and J.D. Hare. 1979. Genetic variation and host plant relations in a parthenogenetic moth. *Evolution* 33:777-790.
- Futuyma, D.J., and S.S. Wasserman. 1980. Resource concentration and herbivory in oak forests. *Science* 210:920-922.

- Futuyma, D.J., and G.C. Mayer. 1980. Non-allopatric speciation in animals. *Syst. Zool.* 29:254-271.
- Wasserman, S.S., and D.J. Futuyma. 1981. Evolution of host plant utilization in laboratory populations of the southern cowpea weevil, *Callosobruchus maculatus* Fabricius (Coleoptera: Bruchidae). *Evolution* 35:605-617.
- Futuyma, D.J., S.L. Leipertz, and C. Mitter. 1981. Selective factors affecting clonal variation in the fall cankerworm, *Alsophila pometaria* (Lepidoptera: Geometridae). *Heredity* 47:161-172.
- Futuyma, D.J., and S.S. Wasserman. 1981. Food plant specialization and feeding efficiency in the tent caterpillars *Malacosoma disstria* Hübner and *M. americanum* (Fabricius). *Ent. Exp. Appl.* 30:106-110.
- Futuyma, D.J., and M. Saks. 1981. The effect of variation in host plant on the growth of an oligophagous insect, *Malacosoma americanum*, and its polyphagous relative, *Malacosoma disstria*. *Ent. Exp. Appl.* 30:163-168.
- Gould, F., C.R. Carroll, and D.J. Futuyma. 1982. Cross-resistance to pesticides and plant defenses: a study of the two-spotted spider mite. *Ent. Exp. Appl.* 31:175-180.
- Futuyma, D.J., and M. Slatkin. 1983. Introduction. In D.J. Futuyma and M. Slatkin (eds.), *Coevolution*, pp. 1-13. Sinauer, Sunderland, Mass.
- Futuyma, D.J. 1983. Evolutionary interactions among herbivorous insects and plants. In D.J. Futuyma and M. Slatkin (eds.), *Coevolution*, pp. 209-231. Sinauer, Sunderland, Mass.
- Mitter, C., and D.J. Futuyma. 1983. An evolutionary-genetic view of host plant utilization by insects. In R.F. Denno and M.C. McClure (eds.), *Herbivores and their variable hosts in natural and managed systems*, pp. 427-459. Academic Press, N.Y.
- Futuyma, D.J. 1983. Selective factors in the evolution of host choice by insects. In S. Ahmad (ed.), *Herbivorous insects: Host-seeking behavior and mechanisms*, pp. 227-244. Academic Press, N.Y.
- Futuyma, D.J. 1983. Interspecific interactions and the maintenance of genetic diversity. In C. Schonewald-Cox, S.M. Chambers, B. MacBride, and W.L. Thomas (eds.), *Genetics and conservation: A reference for managing wild animal and plant populations*, pp. 364-373. Benjamin Cummings, Menlo Park, Cal.
- Futuyma, D.J., R.P. Cort, and I. van Noordwijk. 1984. Adaptation to host plants in the fall cankerworm (*Alsophila pometaria*) and its bearing on the evolution of host affiliation in phytophagous insects. *Am. Nat.* 123:287-296.
- Futuyma, D.J., and S.J. Risch. 1984. Sexual orientation, sociobiology, and evolution. *J. Homosexuality* 9:157-168.
- Futuyma, D.J., and S.C. Peterson. 1985. Genetic variation in the use of resources by insects. *Annu. Rev. Entomol.* 30:217-238.
- Harshman, L.G., and D.J. Futuyma. 1985. The origin and distribution of clonal diversity in *Alsophila pometaria* (Lepidoptera: Geometridae). *Evolution* 39:315-324.
- Futuyma, D.J. 1985. Evolution as fact and theory. *Bios* 56:3-13.
- Futuyma, D.J. 1985. Is Darwinism dead? *The Science Teacher* 52(1):16-221.
- Harshman, L.G., and D.J. Futuyma. 1985. Survivorship and growth of sexually and asexually derived larvae of *Alsophila pometaria* (Lepidoptera: Geometridae). *Am. Nat.* 125:896-902.
- Harshman, L.G., and D.J. Futuyma. 1985. Variation in population sex ratio and mating success of asexual lineages of *Alsophila pometaria* (Lepidoptera: Geometridae). *Ann. Ent. Soc. Amer.* 78:456-458.
- Futuyma, D.J. 1986. Reflections on reflections: Ecology and evolutionary biology. *J. Hist. Biol.* 19:303-312.
- Futuyma, D.J. 1986. Evolution and coevolution in communities. In D.M. Raup and D. Jablonski (eds.), *Patterns and processes in the history of life*, pp. 369-381. Dahlem Konferenzen report 36, Springer-Verlag, Berlin.
- Futuyma, D.J. 1986. The role of behavior in host-associated divergence in herbivorous insects. In M.D. Huettel (ed.), *Evolutionary genetics of invertebrate behavior*, pp. 295-302. Plenum, N.Y.
- Futuyma, D. J., and T. E. Philippi. 1987. Genetic variation and covariation in responses to host plants by *Alsophila pometaria* (Lepidoptera: Geometridae). *Evolution* 41:269-279.

- Futuyma, D. J. 1987. On the role of species in anagenesis. *Amer. Nat.* 130:217-226.
- Futuyma, D. J. 1988. *Sturm und Drang* and the evolutionary synthesis. *Evolution* 42:217-226.
- Futuyma, D. J. 1988. Interindividual comparisons: a discussion. In M. E. Feder, A. F. Bennett, W. W. Burggren, and R. B. Huey (eds.), *New Directions in Physiological Ecology*, pp. 240-242. Cambridge University Press.
- Coyne, J. A., H. A. Orr, and D. J. Futuyma. 1988. Do we need a new species concept? *Syst. Zool.* 37:190-200.
- Futuyma, D. J., and G. Moreno. 1988. The evolution of ecological specialization. *Annu. Rev. Ecol. Syst.* 19:207-223.
- Futuyma, D. J. 1989. Macroevolutionary consequences of speciation. In D. Otte and J. A. Endler (eds.), *Speciation and its consequences*, pp. 557-578. Sinauer, Sunderland, Mass.
- Futuyma, D. J. 1989. Speciation trends and the role of species in macroevolution. *Amer. Nat.* 134:318-321.
- Futuyma, D. J. 1990. Observations on the taxonomy and natural history of *Ophraella* Wilcox (Coleoptera: Chrysomelidae), with a description of a new species. *J. New York Entomol. Soc.* 98:163-186.
- Petitpierre, E., C. Juan, and D. J. Futuyma. 1990. Cytogenetic and evolutionary relationships in the nearctic genus *Ophraella* and related genera of leaf beetles (Coleoptera: Chrysomelidae). *Ann. Entomol. Soc. Amer.* 83:689-693.
- Futuyma, D. J., and S. S. McCafferty. 1990. Phylogeny and the evolution of host plant associations in the leaf beetle genus *Ophraella* (Coleoptera: Chrysomelidae). *Evolution* 44:1885-1913.
- Futuyma, D. J. 1991. Evolution of host specificity in herbivorous insects: genetic, ecological, and phylogenetic aspects. In P. W. Price, T. M. Lewinsohn, G. W. Fernandes, and W. W. Benson (eds.), *Plant-animal interactions: Evolutionary ecology in tropical and temperate regions*, pp. 431-454. Wiley, N. Y.
- Mitter, C., B. Farrell, and D. J. Futuyma. 1991. Phylogenetic studies of insect-plant interactions: Insights into the genesis of diversity. *Trends Ecol. Evol.* 6:290-293.
- Futuyma, D. J. 1991. A new species of *Ophraella* Wilcox (Coleoptera: Chrysomelidae) from the southeastern United States. *J. New York Entomol. Soc.* 99:643-653.
- Futuyma, D. J. 1992. Systematics and the study of evolutionary processes. In E. C. Dudley (ed.), *The unity of evolutionary biology*, pp. 695-706. Proceedings of the Fourth International Congress of Systematic and Evolutionary Biology. Dioscorides Press, Portland, Ore.
- Farrell, B., C. Mitter, and D. J. Futuyma. 1992. Diversification at the insect-plant interface: insights from phylogenetics. *BioScience* 42:34-42.
- Futuyma, D. J. 1992. History and evolutionary processes. In M. Nitecki and D. V. Nitecki (eds.), *History and evolution*, pp. 103-130. University of Chicago Press, Chicago.
- Futuyma, D. J., and M. C. Keese. 1992. Evolution and coevolution of plants and phytophagous arthropods. In G. A. Rosenthal and M. R. Berenbaum (eds.), *Herbivores: Their interactions with secondary plant metabolites* (2d ed.), pp. 439-475. Academic Press, N.Y.
- Futuyma, D. J., and R. M. May. 1992. The coevolution of plant/insect and host/parasite relationships. In R. J. Berry, T. J. Crawford and G. M. Hewitt (eds.), *Genes in ecology*, pp. 139-166. Blackwell, London.

- Futuyma, D. J. 1992. Genetics and the phylogeny of insect-plant interactions. In S. B. J. Menken, J. H. Visser, and P. Harrewijn (eds.), *Proc. Eighth Internat. Congr. Insect-Plant Relationships*, pp. 191-200. Kluwer, Dordrecht, The Netherlands.
- Travis, J., and D. J. Futuyma. 1993. Global change: Lessons from and for evolutionary biology. In J. Kingsolver, P. Kareiva, and R. Huey (eds.), *Biotic interactions and global change*, pp. 251-263. Sinauer, Sunderland, Mass.
- Futuyma, D. J., M. C. Keese, and S. J. Scheffer. 1993. Genetic constraints and the phylogeny of insect-plant associations: Responses of *Ophraella communa* (Coleoptera: Chrysomelidae) to host plants of its congeners. *Evolution* 47:888-905.
- Futuyma, D. J. 1994. Genetic and phylogenetic aspects of host plant affiliation in *Ophraella* (Chrysomelidae: Galerucinae). In P. H. Jolivet, M. L. Cox, and E. Petitpierre (eds.), *Novel aspects of the biology of Chrysomelidae*, pp. 249-258. Kluwer Academic, Dordrecht, The Netherlands.
- Futuyma, D. J., C. Herrmann, S. Milstein, and M. C. Keese. 1994. Apparent transgenerational effects of host plant in the leaf beetle *Ophraella notulata* (Coleoptera: Chrysomelidae). *Oecologia* 96:365-372.
- Futuyma, D. J., J. Walsh, T. Morton, D. J. Funk, and M. C. Keese. 1994. Genetic variation in a phylogenetic context: Responses of two specialized leaf beetles (Coleoptera: Chrysomelidae) to host plants of their congeners. *J. Evol. Biol.* 7:127-146.
- Futuyma, D. J. 1994. Ernst Mayr and evolutionary biology. *Evolution* 48:36-43.
- Futuyma, D. J., M. C. Keese, and D. J. Funk. 1995. Genetic constraints on macroevolution: The evolution of host affiliation in the leaf beetle genus *Ophraella*. *Evolution* 49:797-809.
- Funk, D. J., D. J. Futuyma, G. Ortí, and A. Meyer. 1995. A history of host associations and evolutionary diversification for *Ophraella* (Coleoptera: Chrysomelidae): new evidence from mitochondrial DNA. *Evolution* 49:1017-1022.
- Funk, D. J., D. J. Futuyma, G. Ortí, and A. Meyer. 1995. Mitochondrial DNA sequences and multiple data sets: A phylogenetic study of phytophagous beetles (Chrysomelidae: *Ophraella*). *Molecular Biology and Evolution* 12:627-640.
- Futuyma, D. J. 1995. The uses of evolutionary biology. *Science* 267:41-42. (Invited "Perspective")
- Futuyma, D. J. 1995. Speciation. *Encyclopedia of Environmental Biology* 3:353-368. Academic Press, N.Y.
- Futuyma, D. J., and C. Mitter. 1996. Insect-plant interactions: The evolution of component communities. *Phil Trans. Roy. Soc. Lond. B* 351:1361-1366. (reprinted as pp. 253-264 in *Plant Life Histories*, ed. J. Silvertown, M. Franco, and J. L. Harper, Cambridge University Press, 1997.)
- Futuyma, D. J. 1998. Wherefore and whither the naturalist? *Am. Nat.* 151:1-6.
- Knowles, L. L., A. Levy, J. M. McNellis, K. P. Greene, and D. J. Futuyma. 1999. Tests of inbreeding effects on host-shift potential in the phytophagous beetle *Ophraella communa*. *Evolution* 53:561-567.
- Knowles, L. L., D. J. Futuyma, W. F. Eanes, and B. Rannala. (1999) Insight into speciation from historical demography in the phytophagous beetle genus *Ophraella*. *Evolution* 53:1846-1856.
- Futuyma, D. J. (ed.) and 16 others. 1998. *Evolution, Science, and Society*. (Document and executive summary on the web at [www.amnat.org](http://www.amnat.org), executive summary in *BioScience* 49 (11) (1999), full document in *Am. Nat.* 158 (Suppl.):S1-S47 (2001).

- Futuyma, D. J. 2000. Contemporary approaches to the coevolution of plants and herbivores. *Plant Species Biology* 15:1-10.
- Futuyma, D. J. 2000. Potential evolution of host range in herbivorous insects. Pp. 42-53 in R. Van Driesche, T. Heard, A. McClay, and R. Reardon (ed.), *Host-specificity Testing of Exotic Arthropod Biological Control Agents*, Proc. X Internat. Congr. Biological Control of Weeds. USDA Forest Service, Morgantown, W.V.
- Futuyma, D. J., and A. Levy. 2001. Coevolution. In *Encyclopedia of Biodiversity*, ed. S. Levin et al., Volume 1, pp. 753-767. Academic Press, San Diego.
- Futuyma, D. J. 2001. Coevolution. In *Encyclopedia of Genetics*. Academic Press, London.
- Futuyma, D. J. 2001. Specialist and generalist strategies. Pp. 177-189 in *Evolutionary Ecology: Perspectives and Synthesis*, ed. C. W. Fox, D. A. Roff, and D. J. Fairbairn. Oxford University Press.
- Fritz, J., and D. J. Futuyma. 2002. Hammond's Flycatcher (*Empidonax hammondi*) on Long Island, 27-28 Oct 2001: New York State's first record. *Kingbird* 52(2):2-7.
- Futuyma, D. J. 2003. Coevolution. In *Encyclopedia of Insects*, Academic Press.
- Futuyma, D. J. 2004. The fruit of the tree of life: Insights into evolution and ecology. Pp. 25-39 in *Assembling the Tree of Life* (Ed. J. Cracraft and M. J. Donoghue). Oxford Univ Press.
- Gassmann, A. J., and D. J. Futuyma. 2005. Consequences of herbivory for the fitness cost of herbicide resistance: photosynthetic variation in the context of plant-herbivore interactions. *J. Evol. Biol.* 18:447-454.
- Vencl, F. V., F. Nogueira-de-Sá, B. J. Allen, D. M. Windsor, and D. J. Futuyma. 2005. Dietary specialization influences the efficacy of larval tortoise beetle shield defenses. *Oecologia* 145:409-419.
- Futuyma, D. J. 2006. Ernst Mayr, genetics, and speciation. *Trends Ecol. Evol.* 21(1):7-8.
- Gassmann, A. J., A. Levy, T. Tran, and D. J. Futuyma. 2006. Adaptations of an insect to a novel host plant: a phylogenetic approach. *Functional Ecology* 20:478-485.
- Futuyma, D. J. 2007. Science's greatest challenge. [editorial] *BioScience* 57:3.
- Forister, M. L., A. E. Ehmer, and D. J. Futuyma. 2007. The genetic architecture of a niche: variation and covariation in host use traits in the Colorado potato beetle. *J. Evol. Biol.* 20:985-996.
- Futuyma, D. J. 2007. Unifying biology. [editorial] *BioScience* 57:915.
- Futuyma, D. J. 2008. Sympatric speciation: Norm or exception? Pp. 136-148 in *Specialization, Speciation, and Radiation: The Evolutionary Biology of Herbivorous Insects*, ed. K. J. Tilmon. University of California Press, Berkeley.
- Futuyma, D. J., and A. A. Agrawal. 2009. Evolutionary history and species interactions. *Proc. Nat. Acad. Sci. USA* 106:18043-18044.
- Futuyma, D. J., and A. A. Agrawal. 2009. Macroevolution and the biological diversity of plants and herbivores. *Proc. Nat. Acad. Sci.* 106:18054-18061.
- Futuyma, D. J., and A. F. Bennett. 2009. The importance of experimental studies in evolutionary biology. Pp. 15-30 in T. Garland, Jr., and M. R. Rose (eds.), *Experimental Evolution: Concepts, Methods, and Applications of Selection Experiments*. University of California Press, Berkeley.
- Futuyma, D. J. 2009. Evolutionary biology and its social role: A personal view. Pp. 23-36 in G. Oftedal, J. K. B. O. Friis, P. Rossel, and M. S. Norup (eds.), *Evolutionary Theory: 5 Questions*. Automatic Press.

- Cogni, R., and D. J. Futuyma. 2009. Local adaptation in a plant herbivore interaction depends on the spatial scale. *Biol. J. Linn. Soc.* 97:494-502.
- Futuyma, D. J., and R. K. Colwell. 2009. Lawrence B. Slobodkin (1928-2009): Integrating theory, models, and experiments in ecology. *PLoS Biology* 7(12):1-2 (e1000261).
- Futuyma, D. J. 2010. Evolutionary biology: 150 years of progress. Pp. 3-29 in M. A. Bell, D. J. Futuyma, W. F. Eanes, and J. F. Levinton (eds.), *Evolution Since Darwin: The First 150 Years*. Sinauer, Sunderland, Mass.
- Futuyma, D. J. 2010. Evolutionary constraint and ecological consequences. *Evolution* 64:1865-1884. [Commentary]
- Futuyma, D. J. 2010. Evolutionary theory. Pp. 3-16 in M. P. Muehlenbein (ed.), *Human Evolutionary Biology*. Cambridge University Press, Cambridge.
- Futuyma, D. J. 2010. How species affect each other's evolution. *Evolution Education and Outreach* 3:3-5.
- Futuyma, D. J. 2010. Evolution: the most important theory in biology. Pp. 68-85 in M. Long, H. Gu, and Z. Zhou (eds.), *Darwins' Heritage Today: Proceedings of the Darwin 200 Beijing International Conference*. Higher Education Press, Beijing.
- Futuyma, D.J., and S.C. Stearns. 2010. George Christopher Williams 1926-2010. *Evolution* 64:3339-3343.
- Futuyma, D. J. 2011. Coevolution. In *Brenner's Online Encyclopedia of Genetics*, 2<sup>nd</sup> edition. Elsevier.
- Futuyma, D. J. 2011. Taxonomic issues: What we learn from comparisons among species. Pp. 95-106 in G. Auletta, M. Leclerc, and R. A. Martínez (eds.), *Biological Evolution: Facts and Theories. A Critical Appraisal 150 Years After "The Origin of Species."* Gregorian and Biblical Press, Rome.
- Cogni, R., J. R. Trigo, and D. J. Futuyma. 2011. Varying herbivore population structure correlates with lack of local adaptation in a geographically variable plant-herbivore interaction. *PLoS ONE* 6(12):e29220, pp. 1-12.
- Futuyma, D. J. 2012. Teaching evolution and the nature of science. Pp. 281-296 in A. Poiani (ed.), *Pragmatic Evolution: Applications of Evolutionary Theory*. Cambridge University press, Cambridge.
- Futuyma, D. J. 2012. Retrospective: Robert R. Sokal (1926-2012). *Science* 336:816.
- Cogni, R., J. R. Trigo, and D. J. Futuyma. 2012. A free lunch? No cost for acquiring defensive plant pyrrolizidine alkaloids in a specialist arctiid moth (*Utetheisa ornatrix*). *Molecular Ecology* 21:6152-6162.
- Futuyma, D. J. 2012. Coevolution. In S. Maloy and K. Hughes (eds.), *Brenner's Encyclopedia of Genetics*, 2<sup>nd</sup> edition, pp. 70-75. Academic Press, San Diego.
- Futuyma, D. J. (2013). Modern evolutionary theory. In *Encyclopedia of Human Evolution*, 3d edition, Elsevier.
- Futuyma, D. J. 2013. The evolution of evolutionary ecology. *Israel Journal of Ecology and Evolution* 59 (4):172-180..
- Wray, G. A., H. E. Hoekstra, D. J. Futuyma, R. E. Lenski, T. F. C. Mackay, D. Schluter, and J. E. Strassmann. 2014. Does evolutionary theory need a rethink? Counterpoint: No, all is well. *Nature* 514:161164.
- Futuyma, D. J. 2015. Can modern evolutionary theory explain macroevolution? Pp. 29-85 in *Macroevolution: Evidence, Measurement, Explanation*, ed. E. Serrelli and N. Gontier, Springer.



- Futuyma, D. J. 2015. Basic evolutionary theory. In M. P. Muehlenbein (ed.), *Basics in Human Evolution*. Chapter 1, pp. 3-14. Academic Press (Elsevier), London and San Diego.
- Futuyma, D. J. 2017. Evolutionary biology today, and the call for an extended synthesis. *Interface Focus* 7 (5):20170145 (<http://dx.doi.org/10.1098/rsfs.2016.0145>)
- Futuyma, D. J. 2021. How does phenotypic plasticity fit into evolutionary theory? In D. W. Pfennig (ed.), *Phenotypic Plasticity and Evolution*, pp. 349-366. CRC Press, Boca Raton.
- Futuyma, D. J. 2023. The evolving evolutionary synthesis. In T. E. Dickins and B. J. A. Dickins (eds.), *Evolutionary Biology: Contemporary and Historical Reflections Upon Core Theory*, pp. 517-541. <https://doi.org/10.1007/978-3-031-22028-9>. Springer Nature, Switzerland.
- Futuyma, D. J. 2023. Inclusive fitness theory prefigured: a reply to Rodrigues and Gardner. In T. E. Dickins and B. J. A. Dickins (eds.), *Evolutionary Biology: Contemporary and Historical Reflections Upon Core Theory*, pp.549-551. <https://doi.org/10.1007/978-3-031-22028-9>. Springer Nature, Switzerland.

### III. Book reviews

(Reviews in Quarterly Review of Biology before 1989 not included)

- Mayr, E. and W.B. Provine (eds.), *The evolutionary synthesis*. Am. Scientist. (1981).
- Mayr, E. *The growth of biological thought*. Science 216:842-844. (1982)
- Rosenthal, G.A. and D.H. Janzen (eds.), *Herbivores: Their interaction with secondary plant metabolites*. BioScience (1982)
- Stebbins, G.L. *Darwin to DNA*. Am. Scientist 70:532. (1982)
- Barigozzi, C. (ed.), *Mechanisms of speciation*. Science 219:1059-1060. (1983)
- Hedrick, P. W. *Genetics of populations*. BioScience 34:588-589. (1984)
- Ho, M.-W. and P.T. Saunders (eds.), *Beyond neo-Darwinism*. Science 226:532-533. (1984)
- Greenwood, P.J. et al. (eds.), *Evolution: Essays in honour of John Maynard Smith*. Nature. (1986)
- Huffaker, C.B. and R. L. Rabb (eds.), *Ecological entomology*. Evolution 40:579-580. (1986)
- Provine, W.B. *Sewall Wright and evolutionary biology*. The Scientist 12/15/86. (1986)
- Dawkins, R. *The blind watchmaker*. Natural History 96(3):34-36. (1986)
- Stone, A., and D. Hawksworth, *Coevolution and systematics*. Science 237:441-442 (1987)
- Ruse, M. *Homosexuality: A philosophical inquiry*. Los Angeles Times (May 1988)
- Mayr, E. *Toward a new philosophy of biology*. The Scientist (August 1988)
- Ruse, M. (ed.) *But is it science? The philosophical question in the creation-evolution controversy*. Quart Rev. Biol. 64:56-57. (1989)
- Maynard Smith, J. *Evolutionary genetics*. Trends Ecol. Evol. 4:314-315. (1989)
- Eldredge, N. *Macroevolutionary dynamics*. Quart. Rev. Biol. (1989)
- Spencer, K. C., *Chemical mediation of coevolution*. Science 245:991-992. (1989)
- Toft, C. A. et al. (eds.) *Parasite-host associations: Coexistence or conflict?* Science 255:1750-1752 (1992)
- Mayr, E. *One long argument: Charles Darwin and the genesis of modern evolutionary thought*. Quart. Rev. Biol. 67:190-191. (1992)
- Wohrman, K., and S. K. Jain (eds). *Population biology: Ecological and evolutionary viewpoints*. Ecology (1992)
- CSIRO. *The insects of Australia*. Quart. Rev. Biol. (1992)
- Keller, E. F., and E. A. Lloyd (eds.), *Keywords in evolutionary biology*. Science 260:1153-54. (1993)

- Harrison, R. G. (ed.), *Hybrid zones and the evolutionary process*. Evolution 49:222-226 (1995)  
(reviewed with L. Shapiro)
- Mopper, S., and S. Y. Strauss (eds.), *Genetic structure and local adaptation in natural insect populations*. Quart Rev. Biol. (1999)
- Gould, S. J. *The structure of evolutionary theory*. Science 296:661-3 (2002)
- Mayr, E., and J. Diamond, *The birds of Northern Melanesia: Speciation, ecology, and biogeography*. Birding 35 (1): 80-84 (2003)
- Schluter, D., *The ecology of adaptive radiation*. Evolution 57:1216-1220 (2003)
- Progress on the Origin of Species. Review of: Coyne, J. A., and H. A. Orr, *Speciation*. PLoS Biology 3:197-199 ([www.plosbiology.org](http://www.plosbiology.org), 3(2):e62.) (2005)
- Roughgarden, J., *Evolution's rainbow: Diversity, gender, and sexuality in nature and people*. Evolution 59:1156-1159 (2005)
- Grant, P. R., and B. R. Grant. *How and why species multiply: The radiation of Darwin's finches*. Evolution 62:2446-2449 (2008)
- What Everyone Needs to Know About Evolution. Review of: Coyne, J. A. *Why Evolution is True*. Trends Ecol. Evol. 24:356-357 (2009)
- Why Darwin was Right and Creationists are Wrong. Review of: Dawkins, R. *The Greatest Show on Earth: The Evidence for Evolution*. BioScience 59:905-907 (2009)
- Couzens, D. *Top 100 Birding Sites of the World*. Quarterly Review of Biology 84:424-425 (2009).
- Two Critics Without a Clue. Review of: Fodor, J., and M. Piattelli-Palmerini, *What Darwin Got Wrong*. Science 328:692-693 (2010).
- Avise, J. C., and F. J. Ayala (eds.). *In the light of evolution. III. Two centuries of Darwin*. Quart. Rev. Biol. 86:135-136 (2010).
- Expand or revise? The Evolutionary Synthesis today. Review of: Pigliucci, M., and G. B. Müller (eds.), *Evolution –The Extended Synthesis*. Quart Rev. Biol. 86:203-208 (2011).
- The origin of species by means of ecological selection. Review of P. Nosil, *Ecological Speciation*. Current Biology 23(6):R217-R219 (2013).
- M. Ruse (ed.), *The Cambridge Encyclopedia of Darwin and Evolutionary Thought*. Quarterly Review of Biology 88:336-337 (2013).
- How Universal is Natural Selection? Review of: *Randomness in Evolution*, by John Tyler Bonner, and *Relentless Evolution*, by John N. Thompson. BioScience 64:64-67 (2014).
- Howell, S. N. G., et al. *Rare Birds of North America*; and Birkhead, T. et al., *Ten Thousand Birds: Ornithology Since Darwin*. Quarterly Review of Biology 90:103-104 (2015).
- Elphick, J. *The World of Birds*. Quarterly Review of Biology 90:452-453 (2015).
- Prum, R. O. *The Evolution of Beauty: How Darwin's Forgotten Theory of Mate Choice Shapes the Animal World – and Us*. Quart. Rev. Biol. 93:150-151 (2018).
- Repeating ourselves: Were humans inevitable? Review of J. B. Losos, *Improbable Destinies: How predictable is evolution?* Times Literary Supplement June 29, 2018, p. 32-33.
- Bonduriansky, R., and T. Day, *Extended Heredity: A New Understanding of Inheritance and Evolution*. Princeton University Press. Review in Evolutionary Studies in Imaginative Culture 3(1), pp. 115-118. (2019)
- Morrison, M. L., et al. (eds.) *Ornithology: Foundation, Analysis, and Application*. Quart. Rev. Biol. 95:138-139 (2020).
- Applications of evolutionary science. Review of N. A. Johnson, *Darwin's Reach: 21<sup>st</sup> Century Applications of Evolutionary Biology* (2021, CRC Press). Evolution 77:1167-1169 (2023).

