

CURRICULUM VITAE

July, 2011

JOHN C. AVISE

EDUCATION

B.S., 1970, Natural Resources, University of Michigan, Ann Arbor
 M.A., 1971, Zoology, University of Texas, Austin
 Ph.D., 1975, Genetics, University of California, Davis

PROFESSIONAL EXPERIENCE

1971-1973: Savannah River Ecology Laboratory (Research Assistant).
 1975-2005: University of Georgia (rose through the academic ranks to Distinguished Professor).
 2005-present: University of California at Irvine (Distinguished Professor)

BIOGRAPHICAL SKETCH

I am a naturalist at heart, a geneticist by training, and my career has been devoted to wedding these two areas. My schooling came at a time when molecular methods were being introduced to population biology, and I saw that molecular markers could open the entire biological world for genetic scrutiny. Ever since then, my students and I have used molecular markers to analyze the behaviors and evolution of wild animals. Topics range from micro- to macro-evolutionary: genetic parentage and mating systems, population structure, gene flow, hybridization, biogeography, speciation, systematics, and phylogenetics. We have researched diverse vertebrate and invertebrate animals from aquatic and terrestrial environments. Our typical goal is to unveil ecological or evolutionary features of the organisms, but we also try to elucidate genetic and evolutionary properties of protein and DNA molecules. The theory and practice of evolutionary genetics are relevant to ecology and conservation biology, which provide themes for much of our research. Although I am the acknowledged "father" of phylogeography, I like to think of myself more broadly as a pioneer in molecular ecology, molecular evolution, and conservation genetics. In addition to numerous scientific articles, I have published 20 books on topics ranging from the science-religion interface to genetic engineering, natural history, molecular ecology and evolution, biogeography, phylogenetics, reproductive modes, educational outreach, and humor in science.

ACADEMIC HONORS AND DISTINCTIONS (chronological order)

Fellow, American Association for the Advancement of Science (elected in 1985)
 Creative Research Medal, University of Georgia (1986)
 Vice President, Society for the Study of Evolution (1987)
 Lamar Dodd Award, University of Georgia (1988)
 Fellow, National Academy of Sciences (elected in 1991)
 Sloan Foundation Fellow in Molecular Evolution (1992)
 Earle R. Greene Award, Georgia Ornithological Society (1994)
 President, Society for the Study of Evolution (1994)
 Fellow, American Ornithologists' Union (elected in 1994)
 Fellow, American Academy of Arts and Sciences (elected in 1994)
 William Brewster Memorial Award, American Ornithologists' Union (1997)
 Wilhelmine E. Key Award, American Genetic Association (1997)
 Pew Fellow in Marine Conservation (elected in 1998)
 President, American Genetic Association (2000)

President, Society for Molecular Biology and Evolution (2004)
 Caesar Kleberg Medal, Kleberg Foundation (2006)
 Molecular Ecology Prize, *Molecular Ecology* (2006)
 Alfred Russel Wallace Award, International Biogeography Society (2007)
 National Associate Award, National Research Council (2008)
 Distinguished Faculty Award for Research, University of California at Irvine (2010)
 Fellow, American Philosophical Society (elected in 2011)

SERVICE OUTSIDE THE UNIVERSITY (see also the preceding section)

Editorial Boards:

Evolution, 1982-1984
Systematic Zoology, 1978
Paleobiology, 1986
Genetica, 1979-1987
Genetics, 1985-1988
Molecular Biology and Evolution, 1984-1992
Journal of Molecular Evolution, 1984-1993
Oxford Surveys in Evolutionary Biology, 1984-1993
Annual Review of Ecology and Systematics, 1992-1997
Molecular Phylogenetics and Evolution, 1991-2002
Conservation Genetics, 1999-2002
Biodiversity and Conservation, 2000-2005
Proceedings Royal Society of London B, 2001-2007
Molecular Ecology, 2000-present
Proceedings National Academy of Sciences (regular editorial duties), 1991-present

Other Service (merely a small sample):

Board on Biology, National Research Council, 1994-1997
 Advisory Board, Smithsonian Biodiversity Science and Education Initiative (2005-present)
 Advisory Board, Partnership for Interdisciplinary Studies Coastal Oceans (2005-present)
 Advisory Board, Iberian Center for Biodiversity and Genetic Resources (2005-present)
 Board of Directors, Sea and Sage Audubon Society (2007-2009)
 Numerous other committees, advisory boards, and review panels (throughout career)
 Distinguished Science Advisor, Pangea World (2007-present)

PRINCIPAL FUNDING SOURCES (chronological order)

NSF, 1978-1980: *DNA Sequence Relatedness in Natural Populations* (\$80,000 total)
 NSF, 1981-1983: *Mitochondrial Sequence Variation and Divergence in Nature* (\$84,000)
 NSF, 1983-1986: *Evolution of Vertebrate Mitochondrial DNA* (\$125,000)
 NSF, 1986-1988: *Evolutionary Genetics of Animal Mitochondrial DNA* (\$117,000)
 NSF, 1988-1990 (with Bob Vrijenhoek): *Mitochondrial DNA in Unisexual Fishes* (\$69,000)
 NSF, 1991-1994: *Molecular Analyses of Gene Flow* (\$255,000)
 NSF, 1995-1998: *Genealogical Concordance and Discordance in Populations* (\$223,000)
 Pew Foundation, 1998-2003: *Marine Conservation Biology* (\$150,000)
 NAS, 2006-2010 (with F.J. Ayala): *In the Light of Evolution* Sackler colloquia (\$300,000 total)

TEACHING (university courses taught regularly or at particular times during my career)

Introductory Biology (freshmen level)
 Genetics (upperclass level)
 Ornithology (upperclass/graduate level)
 Evolution (upperclass/graduate level)
 Special Topics in Genetics (upperclass/graduate level)
 Evolutionary Theory (graduate level)
 Molecular Evolution (graduate level)
 Freshman Seminars (topics such as Human Genetics, Genetic Engineering, Molecular Ecology)
 Phylogeography (graduate level)

MAJOR ADVISOR TO:**Graduate Students** (chronological order by date of graduation)

M.S. degree	
Nancy Saunders (1985)	Carol Reeb (1989)
Ph.D. degree	
Michael Douglas (1978)	Robert Chapman (1980)
John Patton (1980)	Charles Aquadro (1981)
Joe Neigel (1984)	Lou Kessler (1984)
Trip Lamb (1986)	Biff Bermingham (1986)
Marty Ball (1990)	Brian Bowen (1992)
Steve Karl (1992)	Kim Scribner (1992)
Matt Hare (1996)	Kurt Wollenberg (1997)
Adam Jones (1998)	Glenn Johns (1998)
DeEtte Walker (1998)	Devon Pearse (2001)
Anthony Fiumera (2001)	Elizabeth Dakin (2003)
Mark Mackiewicz (2005)	Judith Mank (2006)
Felipe Barreto (2009)	Rosemary Byrne (2011)

Postdoctoral Associates (chronological order by date of departure)

Paulo Prodöhl (1997)	Guillermo Ortí (1997)
DeEtte Walker (1999)	Andrew DeWoody (2000)
Brady Porter (2001)	Vimoksalehi Lukoschek (2009)
Jinxiang Liu (2011)	Andrei Tatarenkov (current)

SEMINARS AND PRESENTATIONS

I have delivered scientific presentations in 50 U.S. states and 37 countries (listed below in alphabetical order). Asterisks indicate special or plenary lectures.

Auburn University, Auburn, Alabama (1995)
 American Society of Mammalogists, Mobile, Alabama (1973)
 National Biological Service, Anchorage, Alaska (1995)
 University of Alaska, Fairbanks, Alaska (1995, 2009)
 Week-long mini-course in Conservation Genetics, Bariloche, Argentina (2004)
 * Universidad Nacional del Comahue, Bariloche, Argentina (2004)
 American Ornithological Society, Tempe, Arizona (1985)
 Arizona State University, Tempe, Arizona (2002)
 * Society for Molecular Biology and Evolution, Tempe, Arizona (2006)
 University of Arizona, Tucson, Arizona (2002)
 * American Ornithological Society, Fayetteville, Arkansas (1988)
 Town Meeting, U.S. Air Force Base, Ascension Island (1990)
 * Genetics Society of Australia, Adelaide, Australia (1990)
 * Fenner Conference, Freshwater Conservation, Canberra, Australia (2001)
 * Symposium on Fisheries Management, Sydney, Australia (1990)
 University of Tasmania, Hobart, Tasmania, Australia (1990)
 Australian Institute of Marine Science, Townsville, Australia (1990, 2006)
 James Cook University, Townsville, Australia (2006)
 * Catchments to the Coast Conference, Cairns, Australia (2006)
 * International Ornithological Congress, Vienna, Austria (1994)
 * International Society of Biochemical Systematics, Antwerpen, Belgium (1997)
 * Brazilian Genetics Society, Caxambu, Brazil (1996)
 * Biological Evolution Conference, Porto Alegre, Brazil (2007)
 * International Workshop on Marine Genetics, Rio de Janeiro, Brazil (1998)
 University of Sao Paulo, Sao Paulo, Brazil (1996)
 Pew Foundation, Marine Conservation Biology, British Virgin Islands (1998)
 * Society for the Study of Evolution, Asilomar, California (1988)
 University of California, Berkeley, California (1993, 2004)
 Bodega Bay Marine Lab, Bodega Bay, California (1975, 1993)
 Center for Inquiry, Orange County Chapter, Costa Mesa, California (2010)
 University of California, Davis, California (1975, 2004)
 * Society for the Study of Evolution, Davis, California (1975)
 Beckman Center for Conservation Research, Escondido, California (2008)
 California State University, Fullerton, California (2006)
 Center for Inquiry, Los Angeles Chapter, Hollywood, California (2010)
 * Ocean Studies Board and National Research Council, Irvine, California (1993)
 * NAS symposium in honor of George Gaylord Simpson, Irvine, California (1994)
 * NAS symposium in honor of Theodosius Dobzhansky, Irvine, California (1997)
 Special Symposium in honor of Francisco J. Ayala, Irvine, California (2004)
 NAS Sackler colloquium: ILE I: Adaptation and Complex Design, Irvine, California (2006)
 * NAS Sackler colloquium: ILE II: Biodiversity and Extinction, Irvine, California (2007)
 NAS Sackler colloquium: ILE III: Two Centuries of Darwin, Irvine, California, 2009)
 Sea and Sage Audubon Society, Irvine, California (2008, 2010)
 Society for Conservation Biology regional meeting, Irvine, California (2008)
 NSF GK12 Program for Teachers, Irvine, California (2008, 2009)
 Evolutionary Biology undergraduate student club, Irvine, California (2009)
 * Distinctive Voices Lecture Series, NAS Beckman Center, Irvine, California (2008)
 Pangea World/UNESCO Launch, NAS Beckman Center, Irvine, California (2009)
 * Conference on the Future of Science, Irvine, California (2009)
 University of California, Irvine, California (numerous)
 Scripps Institution of Oceanography, La Jolla, California (2006)
 * Symposium on Molecular Evolution, Lake Tahoe, California (1989)

Occidental College, Los Angeles, California (2007)
 University of California, Los Angeles, California (1992, 2006, 2009)
 Gerontology Research Group, UCLA, Los Angeles, California (2011)
 Wrigley Lectures, University of Southern California, Los Angeles, California (2005)
 Pew Fellows in Marine Conservation, Morro Bay, California (2007)
 Monterey Bay Aquarium Research Institute, Moss Landing, California (2001)
 Hopkins Marine Station, Pacific Grove, California (1992, 1993)
 Stanford University, Palo Alto, California (1993)
 University of California, Riverside, California (1986)
 Loma Linda University, Riverside, California (2011)
 University of California, San Diego, California (1996)
 American Ornithological Society, San Francisco, California (1987)
 * Gordon Conference on Quantitative Genetics, Santa Barbara, California (1986)
 University of California, Santa Barbara, California (2006)
 Wrigley Institute for Environmental Sciences, Santa Catalina Island, California (2005)
 University of California, Santa Cruz, California (1993)
 University of Alberta, Edmonton, Alberta, Canada (1986)
 Simon Fraser University, Vancouver, British Columbia, Canada (1996)
 Genetics Society of America, Vancouver, British Columbia, Canada (1984)
 * American Genetic Association, Vancouver, British Columbia, Canada (2006)
 * American Genetic Association, Victoria, British Columbia, Canada (1997)
 * American Fisheries Society, Quebec City, Quebec, Canada (2003)
 Pew Foundation, Marine Conserv. Biology, White Point, Nova Scotia, Canada (2001)
 Queen's University, Kingston, Ontario, Canada (1987)
 McMaster University, Hamilton, Ontario, Canada (2002)
 * International Congress of Zoology, Beijing, People's Republic of China (2004)
 Society for the Study of Evolution, Boulder, Colorado (1984)
 University of Colorado, Boulder, Colorado (1991, 2009)
 Colorado State University, Ft. Collins, Colorado (2004)
 University of Connecticut, Storrs, Connecticut (1993)
 * American Genetic Association, New Haven, Connecticut (2000)
 Yale University, New Haven, Connecticut (1981, 1989, 2001)
 University of Delaware, Newark, Delaware (2003)
 World Summit on Evolution Conference, San Cristobal Island, Ecuador (2005)
 * Royal Society Symposium on Molecular Evolution, London, England (1985)
 * Symposium on Conservation Genetics, London, England (1990)
 * Symposium on Phylogeny and Conservation, London, England (2003)
 * Symposium on Molecular Systematics, York, England (1982)
 University of Helsinki, Helsinki, Finland (2008)
 University of Miami, Coral Gables, Florida (2002)
 * Florida International University, Coral Gables, Florida (2003)
 * Symposium on Conservation Genetics, Gainesville, Florida (1994)
 University of Florida, Gainesville, Florida (2005)
 Archbold Biological Station, Lake Placid, Florida (1995)
 National Marine Fisheries Service, Panama City, Florida (1981)
 * NOAA Symposium on Fisheries Management, Panama City, Florida (1985)
 Florida State University, Tallahassee, Florida (1987)
 University of South Florida, Tampa, Florida (1984)
 University of Georgia, Athens, Georgia (numerous)
 Atlanta Area Population Biologists Annual Meeting, Athens, Georgia (1977)
 * Society for the Study of Evolution Presidential address, Athens, Georgia (1994)
 * Honors Day Convocation, University of Georgia, Athens, Georgia (1995)
 * SOTAB (State of the Art in Biology) Symposium, Athens, Georgia (1996)
 Campus Christian Faculty Forum, Athens, Georgia (2000)
 * Southeastern Ecology and Evolution Conference (SEEC), Athens, Georgia (2005)
 Clark Atlanta University, Atlanta, Georgia (1997)
 Agnes Scott College, Atlanta, Georgia (2001)
 Emory University, Atlanta, Georgia (1987, 2003)

Georgia State University, Atlanta, Georgia (1977)
 * AAAS Symposium on Conservation Genetics, Atlanta, Georgia (1995)
 * Society for Integrative and Comparative Biology, Atlanta, Georgia (2000)
 * International Sea Turtle Society Symposium, Savannah, Georgia (2005)
 * Valdosta State University, Valdosta, Georgia (2003)
 * Colloquium on Evolution, Otzenhausen, Germany (2002)
 Max Planck Institute for Anthropology, Leipzig, Germany (2003)
 International Congress of Zoology, Athens, Greece (2000)
 University of Hawaii, Honolulu, Hawaii (1975, 2007)
 Pew Foundation, Marine Conservation Biology, Molokai, Hawaii (1999)
 * European Society of Evolutionary Biology, Arnhem, Holland (1997)
 University of Idaho, Moscow, Idaho (1994, 2007)
 Northern Illinois University, DeKalb, Illinois (2005)
 University of Illinois, Champaign-Urbana, Illinois (1978, 2006)
 * AAAS Symposium on Phylogeography and Gene Flow, Chicago, Illinois (1990)
 University of Chicago, Chicago, Illinois (1993, 2008 Sewell Wright lecture)
 * International Congress of Genetics, New Delhi, India (1983)
 University of Indiana, Bloomington, Indiana (1999)
 Purdue University, West Lafayette, Indiana (1981, 2008)
 * Double-helix Lecture, Indiana State University, Terra Haute, Indiana (2009)
 Iowa State University, Ames, Iowa (1998)
 University of Iowa, Iowa City, Iowa (1988)
 National University of Ireland, Cork, Ireland (2008)
 * Symposium on Evolutionary Processes and Theory, Jerusalem, Israel (1985)
 * Symposium on Conservation Biology, Bologna, Italy (1990)
 Stazione Zoologica Anton Dohrn, Naples, Italy (1998)
 University of Palermo, Palermo, Italy (1998)
 Discovery Bay Marine Lab, Discovery Bay, Jamaica (1982)
 * Symposium on the History of Life, Mishima, Japan (1993)
 Symposium on Eel Biology, Tokyo, Japan (2001)
 * Japanese Society of Fisheries Science, Yokohama, Japan (2001)
 University of Kansas, Lawrence, Kansas (1986)
 Kansas State University, Manhattan, Kansas (2000)
 University of Kentucky, Lexington, Kentucky (2000)
 Louisiana State University, Baton Rouge, Louisiana (1988)
 * Int. Congress of Comparative Biochemistry, Baton Rouge, Louisiana (1988)
 Southwestern Louisiana University, Lafayette, Louisiana (1988)
 * American Ornithologists' Union, New Orleans, Louisiana (2002)
 University of New Orleans, New Orleans, Louisiana (2006)
 * Phylogeography and Conservation Conference, Luxembourg City, Luxembourg (2007)
 University of Maine, Orono, Maine (1978)
 National Cancer Research Institute, Frederick, Maryland (1991)
 Genetics Society of America, Boston, Massachusetts (1985)
 Woods Hole Marine Lab Annual Meeting, Woods Hole, Massachusetts (1972)
 University of Massachusetts, Amherst, Massachusetts (2008)
 Pew Foundation, Marine Conservation Biology, La Paz, Mexico (2000)
 Center for Scientific Investigations (CICESE), Ensenada, Mexico (2005)
 * International Biogeography Society, Merida, Mexico (2009)
 * Astyanax International Conference, Ciudad Valles, Mexico (2011)
 University of Michigan, Ann Arbor, Michigan (1987)
 Wayne State University, Detroit, Michigan (1987)
 Michigan State University, East Lansing, Michigan (1984, 2001)
 Iron County Museum and Audubon Society, Iron County, Michigan (2006)
 Kiwanis Club, Iron River, Michigan (2006)
 University of Minnesota, Minneapolis, Minnesota (1993)
 American Ornithological Society, Oxford, Mississippi (1987)
 University of Missouri, Columbia, Missouri (1998)
 Washington University, St. Louis, Missouri (1985)

* Society for the Study of Evolution, Bozeman, Montana (1987)
 University of Montana, Missoula, Montana (2006)
 University of Nebraska, Omaha, Nebraska (1983)
 University of Nevada, Reno, Nevada (1994)
 University of Nevada, Las Vegas, Nevada (2002)
 Dartmouth University, Lebanon, New Hampshire (1975)
 Rutgers University, New Brunswick, New Jersey (1988)
 Princeton University, Princeton, New Jersey (1995)
 University of New Mexico, Albuquerque, New Mexico (1982)
 New Mexico State University, Las Cruces, New Mexico (1995)
 * Keystone Symposium on Molecular Marine Biology, Sante Fe, New Mexico (1995)
 State University of New York, Binghamton, New York (1975)
 State University of New York, Buffalo, New York (1988)
 Cornell University, Ithaca, New York (1982, 1988)
 Columbia University, New York, New York (1993)
 * Conservation Genetics Symposium, Am. Mus. Natural History, New York (2001)
 University of Rochester, Rochester, New York (1988)
 Society for the Study of Evolution, Stony Brook, New York (1982)
 * International Ornithological Society, Christchurch, New Zealand (1990)
 Society for Molecular Biology and Evolution meeting, Auckland, New Zealand (2005)
 Southeastern Ecological Genetics Society, Beaufort, North Carolina (1978)
 University of North Carolina, Chapel Hill, North Carolina (2002)
 American Fisheries Society, Charlotte, North Carolina (1999)
 Duke University, Durham, North Carolina (2000)
 Genetics Society of America, Raleigh, North Carolina (1981)
 North Carolina State University, Raleigh, North Carolina (1984)
 Wake Forest University, Winston-Salem, North Carolina (1988)
 University of North Dakota, Grand Forks, North Dakota (1987)
 * Symposium on Molecular Ecology and Conservation, Medora, North Dakota (1995)
 Queen's University, Belfast, Northern Ireland (2008)
 * Symposium on Marine Biotechnology, Tromso, Norway (1994)
 * Symposium on Conservation Genetics, Trondheim, Norway (2009)
 Bowling Green State University, Bowling Green, Ohio (1989)
 Ohio State University, Columbus, Ohio (1983)
 Case Western Reserve University, Cleveland, Ohio (2010)
 Cleveland Natural History Museum, Cleveland, Ohio (2010)
 University of Oklahoma, Norman, Oklahoma (1975, 2005)
 University of Tulsa, Tulsa, Oklahoma (2005)
 University of Oregon, Eugene, Oregon (1993)
 Smithsonian Tropical Research Institute, Barro Colorado, Panama (1988, 2008)
 Smithsonian Tropical Research Institute, Panama City, Panama (1988, 2008)
 Philadelphia Academy of Sciences, Philadelphia, Pennsylvania (1984)
 University of Pennsylvania, Philadelphia, Pennsylvania (1984)
 * University of Pittsburgh, Pittsburgh, Pennsylvania (2004)
 Duquesne University, Pittsburgh, Pennsylvania (2004)
 * Symposium on Molecular Evolution, State College, Pennsylvania (1992)
 Penn State University, State College, Pennsylvania (1997, 2004)
 * Presidential Address, Soc. Mol. Biol. Evol., State College, Pennsylvania (2004)
 * Symposium on Phylogeography in Europe, Porto, Portugal (2002)
 Center for Biodiversity and Conservation Genetics, Univ. of Porto, Vairão, Portugal (2006)
 University of Puerto Rico, Mayaguez, Puerto Rico (1982)
 University of Puerto Rico, San Juan, Puerto Rico (2 week mini-course) (1982)
 Society for the Study of Conservation Biology, Providence, Rhode Island (1996)
 * International Congress of Genetics, Moscow, Russia (1978)
 * NATO Symposium on Environmental Change, Perthshire, Scotland (1995)
 International Ornithological Congress, Durban, South Africa (1998)
 *Phylogeography Conference, Grahamstown, South Africa (2007)
 University of Pretoria, Pretoria, South Africa (2007)

Stellenbosch University, Stellenbosch, South Africa (2007)
 *Zoological Society of South Africa, Potchefstroom, South Africa (2007)
 Savannah River Ecology Lab., Aiken, South Carolina (1975, 1983, 1992, 2001)
 Southeastern Ecological Genetics Society, Anderson, South Carolina (1979)
 Clemson University, Clemson, South Carolina (1977, 1986)
 University of South Carolina, Columbia, South Carolina (1985, 1993, 2008)
 Black Hills State University, Spearfish, South Dakota (1999)
 * Symposium on Population Genetics and Evolution, Baiona, Spain (2000)
 Institute of Conservation Genetics, Ciudad Real, Spain (2006)
 University of Sevilla, Seville, Spain (2006)
 University of Valencia, Valencia, Spain (2000)
 * Symposium on Conservation Biology, Royal Academy, Stockholm, Sweden (1990)
 * Swiss Zoological Society, Geneva, Switzerland (1998)
 * Symposium on Sex-Specific Markers, La Sage, Switzerland (2002)
 University of Tennessee, Knoxville, Tennessee (1996)
 University of Texas, Austin, Texas (1971)
 Texas A&M University, College Station, Texas (1978)
 * Kleberg Wildlife Research Symposium, Corpus Christi, Texas (2006)
 University of Houston, Houston, Texas (1975, 1991)
 Brigham Young University, Provo, Utah (1991)
 University of Utah, Salt Lake City, Utah (1991)
 Fairleigh-Dickenson Marine Lab, St. Croix, U.S. Virgin Islands (1981)
 University of Vermont, Burlington, Vermont (1983)
 Virginia Tech University, Blacksburg, Virginia (1987)
 University of Virginia, Charlottesville, Virginia (1984)
 * Symposium on Population Viability Analysis, Front Royal, Virginia (1989)
 * Mini-course on Conservation Genetics, Front Royal, Virginia (1996)
 Washington State University, Pullman, Washington (1994)
 Friday Harbor Marine Labs, San Juan Islands, Washington (1989)
 Northwest Fisheries Science Center, Seattle, Washington (2002)
 University of Washington, Seattle, Washington (2006)
 Smithsonian Institution, Washington, D.C. (1987)
 Science Youth Camp, Elkins, West Virginia (1988)
 University of Wisconsin, Madison, Wisconsin (1991)
 University of Wyoming, Laramie, Wyoming (2001)

BOOKS AND EDITED VOLUMES

- 1) Avise, J.C. 1994. **Molecular Markers, Natural History, and Evolution**. Chapman & Hall, New York (511 pp.).
- 2) Avise, J.C. and J.L. Hamrick (eds.). 1996. **Conservation Genetics: Case Histories from Nature**. Chapman & Hall, New York (512 pp.).
- 3) Avise, J.C. 1998. **The Genetic Gods: Evolution and Belief in Human Affairs**. Harvard University Press, Cambridge, MA. (279 pp.).
[also translated and published in Portuguese in 2000, and in Indonesian in 2007]
- 4) Avise, J.C. 2000. **Phylogeography: The History and Formation of Species**. Harvard University Press, Cambridge, MA. (447 pp.).
[also translated and published in Japanese in 2008]
- 5) Avise, J.C. (ed.). 2001. **DNA-based Profiling of Mating Systems and Reproductive Behaviors in Poikilothermic Vertebrates**. Proceedings of the American Genetic Association Presidential Symposium. Journal of Heredity, Special Issue (112 pp.).
- 6) Avise, J.C. 2001. **Captivating Life: A Naturalist in the Age of Genetics**. Smithsonian Institution Press, Washington, D.C. (212 pp.).
- 7) Avise, J.C. 2002. **Genetics in the Wild**. Smithsonian Institution Press, Washington, D.C. (248 pp.).
[the book is now with Random House Publishers]
- 8) Avise, J.C. 2004. **The Hope, Hype, and Reality of Genetic Engineering**. Oxford University Press, New York (242 pp.).
- 9) Avise, J.C. 2004. **Molecular Markers, Natural History, and Evolution (Second Edition)**. Sinauer, Sunderland, MA. (684 pp.).
[also translated and published in Polish in 2008]
- 10) Avise, J.C. 2006. **Evolutionary Pathways in Nature: A Phylogenetic Approach**. Cambridge University Press, New York (286 pp.).
- 11) Avise, J.C. 2007. **A Field Guide to Little Known Genetically Engineered Organisms**. Pensoft, Sofia, Bulgaria and BainBridgeBooks, Philadelphia, PA. (107 pp.).
- 12) Avise, J.C. 2007. **On Evolution**. Johns Hopkins University Press, Baltimore, MD. (186 pp.).
- 13) Avise, J.C. and F.J. Ayala (eds.). 2007. **In the Light of Evolution, Volume I. Adaptation and Complex Design**. The National Academies Press, Washington, D.C. (360 pp.).
- 14) Avise, J.C., S.P. Hubbell, and F.J. Ayala (eds.). 2008. **In the Light of Evolution, Volume II. Biodiversity and Extinction**. The National Academies Press, Washington, D.C. (414 pp.).
- 15) Avise, J.C. 2008. **Clonality: The Genetics, Ecology, and Evolution of Sexual Abstinence in Vertebrate Animals**. Oxford University Press, New York (237 pp.).
- 16) Avise, J.C. and F.J. Ayala (eds.). 2009. **In the Light of Evolution, Volume III. Two Centuries of Darwin**. The National Academies Press, Washington, D.C. (414 pp.).
- 17) Avise, J.C. 2010. **Inside the Human Genome: A Case for Non-intelligent Design**. Oxford University Press, New York (222 pp.).

- 18) Avise, J.C. and F.J. Ayala (eds.). 2010. **In the Light of Evolution, Volume IV. The Human Condition.** The National Academies Press, Washington, D.C. (411 pp.).
- 19) Avise, J.C. (ed.). 2010. **Molecular Ecology and Evolution: the Organismal Side.** World Scientific Publishing, Singapore (561 pp.).
- 20) Avise, J.C. 2011. **Hermaphroditism: A Primer on the Biology, Ecology, and Evolution of Dual Sexuality.** Columbia University Press, New York (232 pp.).
- 21) Strassmann, E., D.C. Queller, J.C. Avise, and F.J. Ayala (eds.). 2011. **In the Light of Evolution, Volume V. Cooperation and Conflict.** The National Academies Press, Washington, D.C., *in press*.

SCIENTIFIC ARTICLES

- 1) Avise, J.C. and R.K. Selander. 1972. Evolutionary genetics of cave-dwelling fishes of the genus *Astyanax*. **Evolution** 26:1-19.
- 2) Avise, J.C. and G.B. Kitto. 1973. Phosphoglucose isomerase gene duplication in the bony fishes: an evolutionary history. **Biochemical Genetics** 8:113-132.
- 3) Avise, J.C. and M.H. Smith. 1974. Biochemical genetics of sunfish I. Geographic variation and subspecific intergradation in the bluegill, *Lepomis macrochirus*. **Evolution** 28:42-56.
- 4) Avise, J.C. and M.H. Smith. 1974. Biochemical genetics of sunfish II. Genic similarity between hybridizing species. **American Naturalist** 108:458-472.
- 5) Avise, J.C., M.H. Smith, R.K. Selander, T.E. Lawlor, and P.R. Ramsey. 1974. Biochemical polymorphism and systematics in the genus *Peromyscus*. V. Insular and mainland species of the subgenus *Haplomylomys*. **Systematic Zoology** 23:226-238.
- 6) Avise, J.C., M.H. Smith, and R.K. Selander. 1974. Biochemical polymorphism and systematics in the genus *Peromyscus*. VI. Systematic relationships in the *boylii* species group. **Journal of Mammalogy** 55:751-763.
- 7) Avise, J.C. 1974. Systematic value of electrophoretic data. **Systematic Zoology** 23:465-481.
- 8) Yardley, D., J.C. Avise, J.W. Gibbons, and M.H. Smith. 1974. Biochemical genetics of sunfish III. Genetic subdivision of fish populations inhabiting heated waters. Pp. 255-263 in: **Thermal Ecology**, J.W. Gibbons and R.R. Sharitz (eds.). U.S. Atomic Energy Commission, Washington, D.C.
- 9) Avise, J.C., J.J. Smith, and F.J. Ayala. 1975. Adaptive differentiation with little genic change between two native California minnows. **Evolution** 29:411-426.
- 10) Avise, J.C. and F.J. Ayala. 1975. Genetic change and rates of cladogenesis. **Genetics** 81:757-773.
- 11) Avise, J.C. and J.F. McDonald. 1976. Enzyme changes during development of holo- and hemi-metabolic insects. **Comparative Biochemistry and Physiology** 53B:393-397.
- 12) Avise, J.C. and F.J. Ayala. 1976. Genetic differentiation in speciose versus depauperate phylads: evidence from the California minnows. **Evolution** 30:46-58.
- 13) Avise, J.C. 1976. Genetic differentiation during speciation. Pp. 106-122 in: **Molecular Evolution**, F.J. Ayala (ed.). Sinauer, Sunderland, MA.
- 14) Avise, J.C. 1976. Genetics of plate morphology in an unusual population of threespine sticklebacks (*Gasterosteus aculeatus*). **Genetical Research** 27:33-46.
- 15) McDonald, J.F. and J.C. Avise. 1976. Evidence for the adaptive significance of enzyme activity levels: interspecific variation in aGPDH and ADH in *Drosophila*. **Biochemical Genetics** 14:347-355.
- 16) Gold, J.R. and J.C. Avise. 1976. Spontaneous triploidy in the California roach *Hesperoleucus symmetricus* (Pisces: Cyprinidae). **Cytogenetics and Cell Genetics** 17:144-149.
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SCIENTIFIC OUTLETS IN WHICH AVISE'S PAPERS HAVE APPEARED

Journal or Other Refereed Outlet	Number of Papers
<i>Evolution</i>	38
<i>Proceedings of the National Academy of Sciences USA</i>	34
Invited chapters in edited books	33
<i>Molecular Ecology</i>	23
<i>Journal of Heredity</i>	19
<i>Genetics</i>	16
<i>Proceedings of the Royal Society of London</i>	13
<i>Molecular Biology and Evolution</i>	11
<i>Systematic Biology (formerly Systematic Zoology)</i>	9
<i>Conservation Biology</i>	6
<i>Copeia</i>	6
<i>Science</i>	5
<i>The Auk</i>	5
<i>Genetica</i>	5
<i>Marine Biology</i>	5
<i>Nature</i>	4
<i>Journal of Evolutionary Biology</i>	4
<i>Natural History</i>	4
<i>Genetical Research</i>	4
<i>Behavioral Ecology and Sociobiology</i>	4
<i>BioScience</i>	3
<i>Journal of Molecular Evolution</i>	3
<i>Biochemical Genetics</i>	3
<i>Heredity</i>	3
<i>Conservation Genetics</i>	3
<i>Annual Review of Ecology and Systematics</i>	2
<i>Annual Review of Genetics</i>	2
<i>American Naturalist</i>	2
<i>Journal of Fish Biology</i>	2
<i>Evolutionary Biology</i>	2
<i>Molecular Phylogenetics and Evolution</i>	2
<i>Journal of Mammalogy</i>	2
<i>Transactions of the American Fisheries Society</i>	2
<i>Oikos</i>	2
<i>Journal of Wildlife Management</i>	2
<i>Perspectives in Biology and Medicine</i>	2
<i>Sexual Development</i>	2
<i>Biological Journal of the Linnean Society</i>	2
<i>American Scientist</i>	1
<i>Evolutionary Ecology</i>	1
<i>Trends in Ecology and Evolution</i>	1
<i>Oxford Surveys in Evolutionary Biology</i>	1
<i>Biodiversity and Conservation</i>	1
<i>Reviews in Fish Biology and Fisheries</i>	1
<i>Comparative Biochemistry and Physiology</i>	1
<i>Frontiers in Biogeography</i>	1
<i>Paleobiology</i>	1
<i>Journal of Biogeography</i>	1
<i>Journal of Theoretical Biology</i>	1
<i>Integrative and Comparative Biology</i>	1
other scientific journals, magazines, and outlets	32
total	335