

AP Biology Summer Reading 2017 Bibliography

Sorted by Call Number / Author.

- 156 W Waal, F. B. M. de (Frans B. M.), 1948-. Our inner ape : a leading primatologist explains why we are who we are. New York : Riverhead Books, 2005.
Presents the author's research on how human's DNA relationship with their closest biological relatives, primates such as chimpanzees and bonobos, influence and inform a wide range of human behavior.
- 306.40 POL Pollan, Michael. The botany of desire : a plant's-eye view of the world. New York : Random House Trade Paperbacks, c2001.
Traces the history of four domesticated species, the apple, the tulip, marijuana, and the potato, from the plant's point of view and discusses how they have been cultivated to fill human needs and desires.
- 338.3 K Kurlansky, Mark. World without fish. New York : Workman Pub., c2011.
Describes what is happening to fish, the oceans, and the environment in the early twenty-first century, explaining how commonly-consumed fish, such as tuna, cod, and salmon, are disappearing; and discussing the impact of overfishing on other species and the effects of fishing on the oceans.
- 362.19 ZIM Zimmer, Carl, 1966-. A planet of viruses. Pbk. ed. Chicago : University of Chicago Press, 2012, c2011.
"A contagious living fluid" : tobacco mosaic virus -- Old companions. The uncommon cold: rhinovirus ; Looking down from the stars : influenza virus ; Rabbits with horns : human papillomavirus -- Everywhere, in all things. The enemy of our enemy : bacteriophages ; The infected ocean : marine phages ; The inner parasites : endogenous retroviruses -- The viral future. The young scourge : human immunodeficiency virus ; Becoming an American : West Nile virus ; Predicting the next plague : severe acute respiratory syndrome and ebola ; The long goodbye : smallpox -- The alien in the watercooler : mimivirus. Explores the hidden world of viruses, explaining how they impact every aspect of life on Earth, describing the latest research into viruses, examining new treatments for deadly viruses, and tracing the evolution of viruses throughout history.
- 363.19 LAM Lambrecht, Bill. Dinner at the new gene café : how genetic engineering is changing what we eat, how we live, and the global politics of food. 1st ed. New York : Thomas Dunne Books, 2001.
Examines how recent developments in genetic engineering are affecting every aspect of human life, including politics, health, culture, and happiness.
- 394.1 P Pollan, Michael. The omnivore's dilemma : a natural history of four meals. New York : Penguin Books, 2007, c2006.
Follows the three major food chains that feed humans--industrial, organic, and hunter-gatherer--from the earth to four meals, exploring the ethical and political effects of one's food choices.
- 509.20 WUL Wulf, Andrea. The invention of nature : Alexander von Humboldt's new world. New York : Alfred A. Knopf, 2015.
Prologue -- Part 1. Departure: Emerging ideas -- Part 2. Arrival: Collecting ideas -- Part 3. Return: Sorting ideas -- Part 4. Influence: Spreading ideas -- Part 5. New worlds: Evolving ideas. "Reveals the forgotten life of Alexander von Humboldt, the visionary German naturalist whose ideas changed the way we see the natural world--and in the process created modern environmentalism"--Dust jacket.
- 560 GOU Gould, Stephen Jay. Wonderful life : the Burgess Shale and the nature of history. New York : W.W. Norton, 1990.
Explains why the diversity of the Burgess Shale is important in understanding our past and evolution.

- 567.90 HOR Horner, John R. How to build a dinosaur : the new science of reverse evolution. New York : Plume, [2010].
The author discusses how advancements in evolutionary developmental biology has lead to experimentation on "reverse evolution," which can be used to recreate prehistoric creatures, and educate scientists on ways to overcome birth defects.
- 570 CAR Carroll, Sean B. The Serengeti rules : the quest to discover how life works and why it matters. Princeton, N.J. : Princeton University Press, [2016].
Examines the quest of scientists who sought answers to their discoveries within the natural world and the underlying logic of biology and life.
- 574.9 Q Quammen, David, 1948-. The song of the dodo : island biogeography in an age of extinctions. New York : Scribner, c1996.
Thirty-six Persian throw rugs -- The man who knew islands -- So huge a bigness -- Rarity unto death -- Preston's bell -- The coming thing -- The hedgehog of the Amazon -- The song of the Indri -- World in pieces -- Message from Aru. Noting that island ecosystems have always suffered high rates of extinction and that human activity increasingly carves the landscape into island-like fragments, David Quammen examines the conditions in many island ecosystems around the world.
- 576.80 CAR Carroll, Sean B. Into the jungle : great adventures in the search for evolution. San Francisco : Pearson Benjamin Cummings, c2009.
- 576.80 DAW Dawkins, Richard, 1941-. The ancestor's tale : a pilgrimage to the dawn of evolution. 1st Mariner Books ed. Boston : Houghton Mifflin, 2005, c2004.
Offers a comprehensive overview of evolution through four billion years of life on Earth, tracing humans back to forty common ancestors in order to demonstrate the link between them and all other forms of life.
- 576.80 KOL Kolbert, Elizabeth. The sixth extinction : an unnatural history. 1st ed. New York : Henry Holt and Co., 2014.
Explores how human beings have altered life on Earth, discussing a dozen species facing extinction or already extinct.
- 581.6 S Stewart, Amy. Wicked plants : the weed that killed Lincoln's mother & other botanical atrocities. 1st ed. Chapel Hill, N.C. : Algonquin Books of Chapel Hill, 2009.
Contains alphabetically arranged entries that provide information on two hundred plants that are deadly, intoxicating, or offensive, and includes illustrations.
- 595 FOR Fortey, Richard A. Horseshoe crabs and velvet worms : the story of the animals and plants that time has left behind. 1st Vintage Books ed. New York : Vintage Books, 2012, c2011.
Former Natural History Museum (London) paleontologist Fortey tells the stories of those plants, animals, and other creatures that have survived from Earth's early days.
- 595.79 GOU Goulson, Dave. A sting in the tale : my adventures with bumblebees. 1st U.S. ed.: May 2014. New York, N.Y. : Picador, 2014.
Dave Goulson discusses his plans and attempts to reintroduce the bumblebee to the United Kingdom as well as presenting his research.
- 597.89 SOU Souder, William, 1949-. A plague of frogs : the horrifying true story. 1st ed. New York : Hyperion, c2000.
Henderson -- From here to there -- Creepy crawly -- Surprised but not crazy -- Metamorphosis -- When the fish begin to walk -- Rumors, theories, rules of engagement -- Choosing sides -- The biggest experiment ever -- Famous last days of the golden toad -- Uncertainties -- Bad weather -- We've found something in the water -- Bad boy -- The green mountain. A group of Minnesota schoolchildren came upon a pond filled with deformed frogs which launched a four-year federal investigation into the possible pollution of local water supplies.

- 599.93 CHI Chiu, Lisa Seachrist. When a gene makes you smell like a fish-- and other tales about the genes in your body. Oxford University Press pbk. ed. Oxford ; : Oxford University Press, 2007.
When a gene makes you smell like a fish -- It takes two to tango -- The first gene -- Phenylketonuria and the first genetic test -- Maple syrup urine -- The Tangier Island gene -- The Celtic curse -- Metallic madness -- Just one bad apple-- -- The long stretch gene -- The Dracula gene -- The expandable gene -- You can blame it on mom -- The gene that launched a revolution -- The fragile X -- The werewolf gene -- The cue ball gene -- Leaving an imprint -- Whither mom or dad gene -- The calico cat gene -- When a gene won't silence -- Just a little piece of the puzzle -- Speaking with a "forked tongue" -- The cheeseburger gene -- The bitter gene, or the battle over broccoli -- The Schwarzenegger gene: from mighty mice to hulking human -- A performance gene -- An aging gene -- In the beginning-- -- The cut-and-paste genes -- Jomon genes -- Survivors' benefit -- The pregnancy genes -- The "got milk?" gene -- Innate sensing genes -- The sidedness genes -- Epilogue: snippets of information reveal the whole? -- Appendix: a genetics primer.
- 599.93 STE Steffoff, Rebecca, 1951-. The third chimpanzee for young people : on the evolution and future of the human animal. A Seven Stories Press 1st ed. New York, NY : Seven Stories Press, Triangle Square books for young readers, [2014].
A tale of three chimps -- The great leap forward -- Human sexuality -- The origin of human races -- Why do we grow old and die? -- The mystery of language -- Animal origins of art -- Agriculture, for better and worse -- Why do we smoke, drink, and use dangerous drugs? -- Alone in a crowded universe -- The last first contacts -- Accidental conquerors -- In black and white -- The golden age that never was -- Blitzkrieg and thanksgiving in the new world -- The second cloud -- Afterword : nothing learned, everything forgotten?. Reflects on the puzzle of human revolution, on where we came from and where we may be heading.
- 599.93 SYK Sykes, Bryan. The seven daughters of Eve. New York : W. W. Norton, 2002, c2001.
Professor Bryan Sykes gives a firsthand account of his research into a gene which passes undiluted from generation to generation through the maternal line.
- 599.93 TUD Tudge, Colin. The link : uncovering our earliest ancestor. 1st ed. New York : Little Brown, 2009.
Details the discovery of a forty-seven-million-year-old Darwinius fossil known as Ida, and discusses what scientists have learned from studying it.
- 611 SHU Shubin, Neil. Your inner fish : a journey into the 3.5-billion-year history of the human body. 1st Vintage Books ed. New York : Vintage Books, 2009.
Finding your inner fish -- Getting a grip -- Handy genes -- Teeth everywhere -- Getting ahead -- The best-laid (body) plans -- Adventures in bodybuilding -- Making scents -- Vision -- Ears -- The meaning of it all. The author, a paleontologist and professor of anatomy, follows the path of evolution by linking the organs of the human body with the physical attributes of non-human ancestors.
- 612.30 ROA Roach, Mary. Gulp : adventures on the alimentary canal. 1st ed. New York : W.W. Norton & Co., [2013].
Examines the alimentary canal and the digestive system, answering such questions as, can constipation kill a person, why the stomach doesn't digest itself, how much can be eaten before the stomach bursts, and more.
- 612.80 AAM Aamodt, Sandra. Welcome to your brain : why you lose your car keys but never forget how to drive and other puzzles of everyday life. Pbk. ed. New York : Bloomsbury, 2009, c2008.
Presents a comprehensive overview on how the brain really works that offers tips on such things as how to cope with jet lag, when to worry about a stroke, and how to keep the brain healthy in old age.

- 613.71 E Epstein, David J., 1983-. The sports gene : inside the science of extraordinary athletic performance. New York, N.Y. : Current, [2013].
The argument of whether some athletes are born with their skills is discussed and analyzed.
- 614.40 QUA Quammen, David, 1948-. Spillover : animal infections and the next human pandemic. New York : W.W. Norton & Co., 2013.
Discusses the animal origins of emerging human diseases, looking at recent outbreaks of Ebola, Marburg, AIDS, SARS, avian influenza, and Lyme disease; and considers whether or not these events are linked and how future epidemics can be stopped.
- 614.50 JOH Johnson, Steven, 1968-. The ghost map : the story of London's most terrifying epidemic-- and how it changed science, cities, and the modern world. 1st Riverhead trade pbk. ed. New York : Riverhead Books, 2007, c2006.
Chronicles the outbreak and spread of Cholera in London during the summer of 1854 and the efforts of Reverend Henry Whitehead and Dr. John Snow who isolated the disease and put an end to the epidemic.
- 615.78 WEN Wenk, Gary Lee. Your brain on food : how chemicals control your thoughts and feelings. 2nd ed. Oxford : Oxford University Press, [2015].
Food, drugs, and you -- Neurobiology of feeding -- Memories, magic, & a major addiction -- Euphoria, depression, & madness -- Your brain's anchor to reality -- Marijuana in the brain -- Simple molecules that turn you on and off -- Remnants of an ancient past -- Sleeping versus waking -- Brain enhancement and other magical beliefs. Examines how various foods and drugs have direct consequences on how people think, feel, and act as a result of their effect on certain neurotransmitters in the brain.
- 616 M Moalem, Sharon. Survival of the sickest : the surprising connection between disease and longevity. New York : Harper, c2007.
Explores evolutionary history for answers to why certain diseases exist, discussing the effects of environmental factors such as climate, food, and drink on the genes of human ancestors thousands and hundreds of years ago, and examines connections between genetic inheritance and who gets which diseases.
- 616.02 SKL Skloot, Rebecca, 1972-. The immortal life of Henrietta Lacks. 1st ed. New York : Crown Publishers, c2010.
Examines the experiences of the children and husband of Henrietta Lacks, who, twenty years after her death from cervical cancer in 1951, learned doctors and researchers took cells from her cervix without consent which were used to create the immortal cell line known as the HeLa cell; provides an overview of Henrietta's life; and explores issues of experimentation on African-Americans and bioethics.
- 616.04 GES Gessen, Masha. Blood matters : from inherited illness to designer babies, how the world and I found ourselves in the future of the gene. 1st ed. Orlando, Fla. : Harcourt, c2008.
Explores how recent advances in genetic mapping, which are allowing doctors to identify patients who are at increased risk for life-threatening illnesses, are shaping the decisions people make about their lives.
- 616.99 MUK Mukherjee, Siddhartha. The emperor of all maladies : a biography of cancer. 1st Scribner trade pbk. ed. New York : Scribner, 2011, c2010.
A discussion of the history of the fight to cure, control, and defeat cancer, covering its origins, relevant scientific research, and other related topics.
- 617.09 MOO Moore, Wendy, 1952-. The knife man : the extraordinary life and times of John Hunter, father of modern surgery. New York : Broadway Books, 2005.
Chronicles the life of John Hunter, the most famous anatomist and surgeon of the eighteenth century, focusing on the contributions he made to the fields of science and medicine.

632.7 S

Stewart, Amy. Wicked bugs : the louse that conquered Napoleon's army & other diabolical insects. 1st ed. Chapel Hill, N.C. : Algonquin Books of Chapel Hill, c2011. African bat bug -- She's just not that into you -- Asian giant hornet -- Assassin bug -- Bugs of war -- Bedbug -- Black fly -- Biting midge -- Black widow -- Stinging caterpillars -- Bombardier beetle -- Brazilian wandering spider -- Curse of the scorpion -- Brown marmorated sting bug -- Brown recluse -- Chigger mite -- Chigoe flea -- Have no fear -- Cockroach -- Colorado potato beetle -- Gardener's dirty dozen -- Corn rootworm -- Death watch beetle -- Bookworms -- Deer tick -- Filth fly -- I've got you under my skin -- Formosan subterranean termite -- The ants go marching -- Giant centipede -- Mediterranean fruit fly -- Millipede -- Arrow poisons -- Mosquito -- Mountain pine beetle -- Nightcrawler -- The enemy within -- Oriental rat flea -- Paederus beetle -- Corpse-eaters -- Phylloxera -- Rocky Mountain locust. Contains alphabetically arranged entries that provide information and stories of one hundred insects that infest, infect, and make trouble for humans, and includes etchings and drawings of the six- and eight-legged pests.

921 DAR

Huxley, Julian, 1887-1975. Charles Darwin and his world. New York : Viking Press, [1965].