

# Evolution in Everyday Life

Fall 2007

Date	Topic	Readings	Assignments
Sept. 4	<b>What is evolution?</b>		
Sept. 6	Administrivia, Natural selection	Course handouts C. Darwin. 1859. Chapter I: Variation Under Domestication. <i>On the Origin of Species</i> . John Murray, London.	
Sept. 11	Natural selection	C. Darwin. 1859. Chapter III: Struggle for Existence. <i>On the Origin of Species</i> . John Murray, London.	Dean's essay
Sept. 13	Natural selection	F. Ayala. 1978. The mechanisms of evolution. <i>Scientific American</i> 239:56-69. O. Judson. June 18, 2006. The Wild Side: evolution before your eyes. <i>The New York Times</i> . [ D.S. Wilson. 2007. <i>Evolution for Everyone</i> (selection). Delacorte Press, NY. ]	Darwin essay
Sept. 18	Natural selection	S. J. Gould. 1980. The panda's thumb. In: <i>The Panda's Thumb</i> . W.W. Norton & Co., NY. S.J. Gould. 1983. Kingdoms without wheels. In: <i>Hen's Teeth and Horse's Toes</i> . W.W. Norton & Co., NY.	
Sept. 20	Natural selection	Review all readings to date	Nat. sel. exercise
Sept. 25	<b>Our health:</b> Darwinian medicine	G.C. Williams and R. Nesse. 1991. The dawn of Darwinian medicine. <i>Quarterly Review of Biology</i> 66:1-22. R.M. Nesse and G.C. Williams. 1998. Evolution and the origins of disease. <i>Scientific American</i> 279:86-93.	
Sept. 27	Evolution of virulence	P. Ewald. 1993. The evolution of virulence. <i>Scientific American</i> 268:86-93.	Dar. med. essay

❖ Readings are listed on the date they will be discussed, assignments are listed on the day they are due.

❖ This schedule is subject to change!

Date	Topic	Readings	Assignments
Oct. 2	Evolution of diseases	B. Wuethrich. 2003. Chasing the fickle swine flu. <i>Science</i> 299:1502-1505. J. Cohen. 2003. Escape artist par excellence. <i>Science</i> 299:1505-1507. UC Museum of Paleontology. 2007. HIV: The Ultimate Evolver. Understanding Evolution. <a href="http://evolution.berkeley.edu/evolibrary/article/_0_0/medicine_04">http://evolution.berkeley.edu/evolibrary/article/_0_0/medicine_04</a> "Why Does Evolution Matter?" online video, PBS Evolution Website "Double Immunity" online video, PBS Evolution Website	Flu letter
Oct. 4	Citing sources, plagiarism	G. Harvey. 1998. Misuse of Sources. From: <i>Writing with Sources</i> . Hackett Publishing Co., Indianapolis, IN	
Oct. 9	Antibiotic resistance	S.B. Levy. 1998. The challenge of antibiotic resistance. <i>Scientific American</i> 278:46-53. "The Microbe Clock" simulation, PBS Evolution Website "The Evolution of Antibiotic Resistance" video, PBS Evolution Website T. Kidder. 2004. Excerpt (pp. 127-128, 137-177). <i>Mountains Beyond Mountains</i> . Random House, NY.	Panel prep
Oct. 11	<b>Our diet:</b> Plants	J. Diamond. 1997. How to make an almond. From: <i>Guns, Germs, and Steel</i> . W.W. Norton and Co., NY.	
Oct. 16	Reading Days	No class!	
Oct. 18	<b>Library Workshop</b>	<b>Special Guest:</b> Cathy Ryan, Science Librarian <b>*** Meet at the entrance to the Library ***</b>	
Oct. 23	Domesticating plants	M. Pollan. 2001. The apple (selections). From: <i>The Botany of Desire</i> . Random House, NY.	Library exercise
Oct. 25	Domesticating animals	J. Diamond. 1997. Zebras, unhappy marriages, and the <i>Anna Karenina</i> principle. From: <i>Guns, Germs, and Steel</i> . W.W. Norton and Co., NY.	
Oct. 30	Advising	<b>Special Guest:</b> Laure Paul, Career Center	Perspectives 1
Nov. 1	<b>Our pets:</b> Mickey Mouse	S.J. Gould. 1980. A biological homage to Mickey Mouse. In: <i>The Panda's Thumb</i> . W.W. Norton & Co., NY.	

Date	Topic	Readings	Assignments
Nov. 6	Dogs	L. Trut. 1999. Early Canid domestication: The Farm-Fox experiment. <i>American Scientist</i> 87:160-169.	
		J. Call et al. 2003. Domestic dogs ( <i>Canis familiaris</i> ) are sensitive to the attentional state of humans. <i>Journal of Comparative Psychology</i> 117:257-263.	
Nov. 8	More dogs	G.M. Acland and E.A. Ostrander. 2003. The dog that came in from the cold. <i>Heredity</i> 90:201-202.	Persp 2 choice
		J. Cohn. 1997. How wild wolves became domestic dogs. <i>BioScience</i> 47:725-728. E.A. Ostrander. 2007. Genetics and the shape of dogs. <i>American Scientist</i> 95:406-413.	
Nov. 13	Cats	C. Packer and A.E. Pusey. 1997. Divide we fall: cooperation among lions. <i>Scientific American</i> 276:52-59. N. Wade. June 29, 2007. Study traces cat's ancestry to Middle East. <i>New York Times</i> .	
Nov. 15	<b>Ourselves:</b> Human Biogeography	A. Thorne and M. Wolpoff. 1992/2003. The multiregional evolution of humans. <i>Scientific American</i> 266(4):76-83. A. Wilson and R. Cann. 1992/2003. The recent African genesis of humans. <i>Scientific American</i> 266(4):68-73.	
Nov. 20	Mate choice	<b>Special Guest:</b> International and Off-Campus Programs [ M.E. Hauber. 2007. Fame, fortune, and fitness at the Academy Awards. <i>Journal of Ethology</i> 25:201-204. ]	Perspectives 2
		D.A. Redelmeier and S.M. Singh. 2001. Survival in Academy Award winning actors and actresses. <i>Annals of Internal Medicine</i> 134:955-962.	
Nov. 22	Thanksgiving Recess	No class!	
Nov. 27	Mate choice	C. Harris. 2004. Evolution of jealousy. <i>American Scientist</i> 92:62-71.	
Nov. 29		Student presentations	Presentation
Dec. 4		Student presentations	Presentation

Dec. 6	<b>What is evolution?</b>	[ D.G. Futuyma. 1995. The uses of evolution. Science 267: 41-42. ] S.R. Palumbi. 2001. Humans as the world's greatest evolutionary force. Science 293:1786-1790.	Perspectives 2.1
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