

Megan Raby  
History of Biology Prelim List

**R 5/29: Form and Function/Teleology and Mechanism;  
Evolution Before Darwin:**

1. Appel, Toby A. Cuvier-Geoffroy Debate: French Biology in the Decades Before Darwin (New York: Oxford University Press, 1987). QH305.2.F8 A67 1987
2. Gliboff, Sander. "H.G. Bronn and the History of Nature," *Journal of the History of Biology* 40/2 (June 2007): 259-294. [from Evolution/Before Darwin section]
3. Richards, Robert J. *The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Thought*, appendix only (Chicago: University of Chicago Press, 2008). [ms., LKN to supply]
4. Russell, E.S. *Form and Function: A Contribution to the History of Animal Morphology* (London: J. Murray, 1916).
5. Desmond, Adrian J. *The Politics of Evolution: Morphology, Medicine, and Reform in Radical London*. Chicago: University of Chicago Press, 1989.
6. Secord, James A. *Victorian Sensation: The Extraordinary Publication, Reception, and Secret Authorship of Vestiges of the Natural History of Creation*. Chicago: University of Chicago Press, 2000.
7. Coleman, William, and Frederic Lawrence Holmes, eds. *The Investigative Enterprise: Experimental Physiology in Nineteenth-century Medicine* (Berkeley: University of California Press, 1988)
8. Geison, Gerald. *The Private Science of Louis Pasteur* (Princeton: Princeton University Press: 1995)
9. Otis, Laura. *Müller's Lab* (Oxford: Oxford University Press, 2007)  
Todes, Daniel. *Pavlov's Physiology Factory: Experiment, Interpretation, Laboratory Enterprise*. (Baltimore: The Johns Hopkins Press, 2001)
10. [2]Paley, William. *Natural Theology* (London, 1802)

**R 6/5 Classification/Systematics; Cultures of Natural History:**

11. \*[2] Farris, J.S and N.I. Platnick. "Lord of the Flies: The Systematist as Study Animal," *Cladistics* 5 (1989): 295-310. [review of Hull]

12. \*[2] Hull, David L. *Science as a Process: An Evolutionary Account of the Social and Conceptual Development of Science* (Chicago: University of Chicago Press, 1988).
13. \*Koerner, Lisbet. *Linnaeus: Nature and Nation*. Cambridge, MA: Harvard University Press, 1999.
14. \*Larson, James L. *Reason and Experience: The Representation of Natural Order in the Work of Carl von Linné* (Los Angeles: University of California Press, 1971). QH44 .L37
15. \*Sloan, Phillip R. "The Buffon-Linnaeus Controversy," *Isis* 67 (1976): 356-375.
16. \*Sloan, Philip R. "Natural History, 1670-1802." In *Companion to the History of Modern Science*, edited by Robert C. Olby, xxvi, 1081. New York: Routledge, 1990
17. \*Allen, David. *The Naturalist in Britain: A Social History*. London: A. Lane, 1976.
18. \*Jardine, Nicholas, James A Secord, and E. C Spary, ed. *Cultures of Natural History*. Cambridge: Cambridge University Press, 1996.
19. \*Kohler, Robert. *All Creatures: Naturalists, Collectors, and Biodiversity, 1850-1950*. Princeton N.J.: Princeton University Press, 2006.
20. \*Kuklick, Henrika, and Robert E. Kohler, eds., *Science in the Field*. *Osiris* n.s. 11 (1996)
21. \*Secord, Anne. "Science in the Pub: Artisan Botanists in early Nineteenth-Century Lancashire." *History of Science* 32, no. 3 (1994): 269-315.

**Extra:**

22. [2] Bowler, Peter J. *Life's Splendid Drama: Evolutionary Biology and the Reconstruction of Life's Ancestry, 1860-1940* (Chicago: University of Chicago Press, 1996). QH361 .B685 1996
23. [2] Ritvo, Harriet. *The Platypus and the Mermaid and Other Figments of the Classifying Imagination* (Cambridge, MA: Harvard University Press, 1997). QL351 .R57 1997
24. [3] Stevens, Peter F. *The Development of Biological Systematics: Antoine-Laurent de Jussieu, Nature, and the Natural System* (New York: Columbia University Press, 1994). QH83 .S76 1994

Su 6/15 **Evolution in General; Darwin; Darwinism & 19thC:**

25. \*Bowler, Peter J. *Evolution: The History of an Idea*. Berkeley: University of California Press, 2003.
26. \*Young, Robert M. *Darwin's Metaphor: Nature's Place in Victorian Culture* (New York: Cambridge University Press, 1985).
27. \*Browne, E. Janet. *Charles Darwin: A Biography, Volume I-- Voyaging* (New York: Knopf, 1995).
28. \*Browne, Janet. *Charles Darwin: The Power of Place. Vol. 2*. New York: Knopf, 2002
29. \*Darwin, Charles. *On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life* (London: John Murray, 1859).
30. \*Ospovat, Dov. *The Development of Darwin's Theory: Natural History, Natural Theology, and Natural Selection, 1838-59* (New York: Cambridge University Press, 1981). QH31.D2 O74
31. \*Nyhart, Lynn. *Biology Takes Form: Animal Morphology and the German Universities, 1800-1900* (Chicago: University of Chicago Press, 1995).
32. \*Todes, Daniel Philip. "Darwin's Malthusian metaphor and Russian evolutionary thought, 1859-1917." *Isis* 1987, 78: 537-551.

### **Overviews:**

33. \*Allen, Garland E. *Life Science in the Twentieth Century*. New York: Wiley, 1975.
34. \*Coleman, William. *Biology in the Nineteenth Century: Problems of Form, Function, and Transformation*. New York: Wiley, 1971.
35. \*Sapp, Jan. *Genesis: The Evolution of Biology* (New York: Oxford University Press, 2003). QH305 .S27 2003

### **F 7/11: Biology and Society (VI):**

36. \*Kevles, Daniel J. *In the Name of Eugenics: Genetics and the Uses of Human Heredity*. New York: Knopf, 1985.
37. \*Paul, Diane B. *Controlling Human Heredity, 1865 to the Present*. Atlantic Highlands, N.J.: Humanities Press, 1995.
38. \*Kaye, Howard L. *The Social Meaning of Modern Biology: From Social Darwinism to Sociobiology* (New Haven: Yale University Press, 1986).

39. \*Haraway, Donna. *Primate Visions: Gender, Race, and Nature in the World of Modern Science* (New York: Routledge, 1989).
40. \*Russett, Cynthia Eagle. *Sexual Science: The Victorian Construction of Womanhood*. Cambridge, MA: Harvard University Press, 1989.

**F 7/18: Biogeography/Empire; Ecology/Environment (Ic, d, e):**

41. \*Browne, E. *The Secular Ark: Studies in the History of Biogeography*. New Haven: Yale University Press, 1983.
42. \*Crosby, Alfred. *Ecological Imperialism: The Biological Expansion of Europe, 900- 1900*. Cambridge: Cambridge University Press, 1986.
43. [3]\*Nelson, Gareth. "From Candolle to Croizat: Comments on the History of Biogeography." *Journal of the History of Biology* 11, no. 2 (1978): 269-305.
44. [2]\*Nicolson, Malcolm. "Alexander von Humboldt, Humboldtian science, and the origins of the study of vegetation." *History of Science*, 25:2. June 1987.
45. [2]\*Osborne, Michael A. "Acclimatizing the World: A History of the Paradigmatic Colonial Science." *Osiris* 15, no. Nature and Empire: Science and the Colonial Enterprise. 2 (2000): 135-151.
46. \*Anker, Peder. *Imperial Ecology: Environmental Order in the British Empire, 1895-1945*. Cambridge: Harvard University Press, 2001.
47. \*Kohler, Robert E. *Landscapes and Labscapes: Exploring the Lab-Field Border in Biology* (Chicago: University of Chicago Press, 2002)
48. \*McIntosh, Robert P. *The Background of Ecology: Concept and Theory* (Cambridge: Cambridge University Press, 1985)
49. \*Mitman, Gregg. *The State of Nature: Ecology, Community, and American Social Thought, 1900-1950, Science and Its Conceptual Foundations*. Chicago: University of Chicago Press, 1992.
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**Extra:**

51. [3]Bowler, Peter J. *The Norton History of the Environmental Sciences*, Norton History of Science. New York: W.W. Norton, 1993.

52. [3]Brockway, Lucile. *Science and Colonial Expansion: The Role of the British Royal Botanic Gardens*. New York: Academic Press, 1979.
53. [2]Camerini, Jane R. "Evolution, Biogeography, and Maps: An Early History of Wallace's Line." *Isis: International Review devoted to the History of Science and its Cultural Influences* 84 (1993): 700-27.
54. [3]Drayton, Richard Harry. *Nature's Government: Science, Imperial Britain, and the 'Improvement' of the World*. New Haven: Yale University Press, 2000.
55. [2]Fagan, Melinda. "Wallace, Darwin, and the Practice of Natural History." *Journal of the History of Biology* 40, no. 4 (2007): 601-35.
56. [3]Grove, Richard. *Green Imperialism: Colonial Expansion, Tropical Island Edens, and the Origins of Environmentalism, 1600-1860*. 1st pbk. ed. New York: Cambridge University Press, 1996.
57. [2]Kinch, Michael Paul. "British Theories of Biogeography, 1800-1859." *Proceedings of the Oregon Academy of Science* 11 (1975): 92-99.
58. [2]Vetter, Jeremy. "Wallace's Other Line: Human Biogeography and Field Practice in the Eastern Colonial Tropics." *Journal of the History of Biology* 39 (2006): 89-123.

**F 7/25: Generation/Reproduction/Hereditiy/Development; and Evolutionary Synthesis (IIIC, IVE):**

59. \*Bowler, Peter J. *The Mendelian Revolution: The Emergence of Hereditarian Concepts in Modern Biology and Society* (Baltimore: Johns Hopkins University Press, 1989).
60. \*Kohler, Robert E. *Lords of the Fly: Drosophila Genetics and the Experimental Life*. Chicago: University of Chicago Press, 1994.
61. \*Olby, Robert C. *Origins of Mendelism*. New York: Schocken Books, 1966.
62. \*Sapp, Jan. *Beyond the Gene: Cytoplasmic Inheritance and the Struggle for Authority in Genetics*. New York: Oxford University Press, 1987.
63. \*Bowler, Peter J. *The Eclipse of Darwinism: Anti-Darwinian Evolution Theories in the Decades Around 1900* (Baltimore: Johns Hopkins University Press, 1983). QH361 B68
64. \*Bowler, Peter J. "Revisiting the Eclipse of Darwinism." *Journal of the History of Biology* 38 (2005): 19-32.

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68. \*Smocovitis, Vassiliki Betty. "Unifying Biology: The Evolutionary Synthesis and Evolutionary Biology," *Journal of the History of Biology* 25/1 (March 1992): 1-65.

**F 8/1: Molecular Biology (V):**

69. \*Cairns, John, Gunther S. Stent, and Watson James D. Phage and the Origins of Molecular Biology. Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory Press, 2007 (orig. 1966).
70. \*Creager, Angela. *The Life of a Virus: Tobacco Mosaic Virus as an Experimental Model, 1930-1965* (Chicago: University of Chicago Press, 2002).
71. \*De Chadarevian, Soraya. *Designs for Life: Molecular Biology after World War II* (Cambridge: Cambridge University Press, 2002).
72. \*Kay, Lily. *Who Wrote the Book of Life? A History of the Genetic Code* (Palo Alto: Stanford University Press, 2000).
73. \*Keller, Evelyn Fox. *Refiguring Life: Metaphors of Twentieth-Century Biology* (New York: Columbia University Press, 1995). QH428 .K45 1995
74. \*Morange, Michel. *A History of Molecular Biology*, trans. Matthew Cobb (Cambridge, MA: Harvard University Press, 1998).
75. \*Strasser, Bruno. "Institutionalizing Molecular Biology in Post-War Europe: A Comparative Study", *Studies in the History and Philosophy of Biological and Biomedical Sciences*, 2002, 33: 533-564