

Special Topics in Evolution - Species and Speciation

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	Date	Leader	Chapter	Topic	Papers
1	Jan 11			Introduction	
2	Jan 18	Robie, Mary	1	-Reality of species -The significance of names	(Levin, 1979; Barraclough and Herniou, 2003; Lee, 2003) (Stevens, 2002)
3	Jan 25	Mari- anna	1, Ap- pendix	-Species concepts --Biological --Genotypic cluster	(Dobzhansky, 1935; Mayr, 1982, 1992) (Mallet, 1995)
4	Feb 1	John	1, Ap- pendix	-Species concepts --Recognition --Cohesion --Ecological	(Paterson, 1985; Lambert, Michaux, and White, 1987) (Templeton, 1989) (Van Valen, 1976)
5	Feb 8	Bacter- ial and fungal people	1, Ap- pendix	-Species concepts, phylogenetic --Diagnosability --Monophyly	(Cracraft, 1989; Nixon and Wheeler, 1990; Wheeler and Nixon, 1990; Cracraft, 1992) (de Queiroz and Donoghue, 1988, 1990)
6	Feb 15	Animal people	1, Ap- pendix	-Species concepts, phylogenetic --Genealogical --Synthesis of phylogenetic -Application of species concepts	(Baum and Shaw, 1995; Shaw, 1998) (Baum and Donoghue, 1995) (Sites and Marshall, 2004)
7	Feb 22	Lymari	3	-Allopatric speciation	(Jordan, 1908; Mayr, 1963; Knowlton et al., 1993)
8	Mar 1	Jenni- fer	3, 4	-Parapatric speciation -Sympatric speciation	(Osada and Wu, 2005) (Bush, 1969; Feder, 1998; Weiblen and Bush, 2002)
9	Mar 8	George	5	-Isolating barriers - ecological	(Schemske and Bradshaw, 1999; Cooley et al., 2001; Smith, Schneider, and Holder, 2001)
10	Mar 15	Isabel	6	-Isolating barriers - behavioral	(Uy and Borgia, 2000; Ortiz-Barrientos and Noor, 2002)
--	Mar 22			<i>Spring Break</i>	
11	Mar 29	Fusun	7	-Isolating barriers - post-zygotic --Chromosomal --Genes	(Lewis, 1966; Bush, Wilson, and Patton, 1977; Sites and Mindell, 1987) (Sun, Ting, and Wu, 2004)
12	Apr 5	Paul	9	-Hybridization --Hybrid speciation --Hybrid zones	(Anderson and G. L. Stebbins, 1954; Rieseberg, 1997) (Alexandrino et al., 2005)
13	Apr 12	Plant people	9	-Polyploidy	(Jackson, 1976; Mable, 2004)
14	Apr 19	Andrea	10	-Reinforcement	(Ehrman, 1965; Hoskin et al., 2005)
15	Apr 26	Diane	11	-Drift vs. selection in divergence	(Barton and Charlesworth, 1984; Carson and Templeton, 1984)

Book chapters are from *Speciation*, by Jerry A. Coyne and H. Allen Orr, 2004. Sinauer Associates, Sunderland, MA. Additional weekly readings are listed below.

- ALEXANDRINO, J., S. J. E. BAIRD, L. LAWSON, J. R. MACEY, C. MORITZ, and D. B. WAKE. 2005. Strong selection against hybrids at a hybrid zone in the *Ensatina* ring species complex and its evolutionary implications. *Evolution* 59:1334–1347.
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