

**READING LIST FOR BIOLOGY 39: ANIMAL BEHAVIOR  
FALL 2010**

**September 10-13**

1. Tinbergen, N. 1960. Analysing the chick's world. Pp. 184-210 in *The Herring Gull's World*.
2. Watson, J.B. 1924. What is behaviorism? pp. 6-19 in *Behaviorism*.

**September 15-17**

3. Berthold, P., et al. 1992. Rapid microevolution of migratory behaviour in a wild bird species. *Nature* 360: 668-670.
4. Lucas, C. and Sokolowski, M.B. 2009. Molecular basis for changes in behavioral state in ant social behaviors. *Proceedings of the National Academies of Science USA* 106: 6351-6356.
5. Whitfield, C.W., et al. 2004. Gene expression profiles in the brain predict behavior in individual honey bees. *Science* 302: 296-299.

**September 20-22**

6. Hollis, K., et al. 1997. Classical conditioning provides paternity advantage for territorial male blue gouramis (*Trichogaster trichopterus*). *Journal of Comparative Psychology* 11: 219-225.
7. Garcia, J. and Koelling, R.A. 1966. Relation of cue to consequence in avoidance learning. *Psychonomic Science* 4: 123-124.
8. Clayton, N.S. and Dickinson, A. 1998. Episodic-like memory during cache recovery by scrub jays. *Nature* 395: 272-274.
9. Thornton, A. and MacAuliffe, K. 2006. Teaching in wild meerkats. *Science* 313: 227-229.

**September 24-27**

10. Dittman, A. and Quinn, T. 1996. Homing in Pacific salmon: mechanisms and ecological basis. *Journal of Experimental Biology* 199: 83-91.
11. Mateo, J.M. and Johnston, R.E. 2000. Kin recognition and the 'armpit effect': evidence of self-referent phenotype matching. *Proceedings of the Royal Society of London B* 267: 695-700.
12. Mateo, J.M. 2001. Kin-recognition abilities and nepotism as a function of sociality. *Proceedings of the Royal Society of London B* 269: 721-727.

## September 29

13. Roeder, K. D. 1974. Acoustic sensory responses and possible bat-evasion tactics of certain moths. In Proc. Canadian Society of Zoologists' Annual Meeting (ed. M. D. B. Burt), pp. 71–78. Fredericton, Canada: University of New Brunswick Press.
14. Ratcliffe, J.M., et al. 2009. Tiger moths and the threat of bats: decision-making based on the activity of a single sensory neuron. *Biology Letters* 5: 368-371.

## October 1-4

15. Drea, C.M., et al. 2002. Exposure to naturally circulating androgens during foetal life incurs direct reproductive costs in female spotted hyaenas, but is prerequisite for male mating. *Proceedings of the Royal Society of London B* 269: 1981-1987.
16. Dloniak, S.M., et al. 2006. Rank-related maternal effects of androgens on behaviour in wild spotted hyaenas. *Nature* 440: 1190-1193.
17. Wingfield, J.C., et al. 1990. The 'challenge hypothesis': theoretical implications for patterns of testosterone secretion, mating systems, and breeding strategies. *American Naturalist* 136: 829–846.
18. Hirschenhauser, K. et al. 2004. A test of the 'challenge hypothesis' in cichlid fish: simulated partner and territory intruder experiments. *Animal Behaviour* 68: 741-750.

## October 8

19. Loher, W. 1972. Circadian control of stridulation in the cricket *Teleogryllus commodus* Walker. *Journal of Comparative Physiology* 79: 173-190.

## October 13-15

20. Froy, O., et al. 2003. Illuminating the circadian clock in monarch butterfly migration. *Science* 300: 1303-1305.
21. Brower, L. 1996. Monarch butterfly orientation: missing pieces to a magnificent puzzle. *Journal of Experimental Biology* 199: 93-103.
22. Cochran, W.W., et al. 2004. Migrating songbirds recalibrate their magnetic compass daily from twilight cues. *Science* 304: 405-408.
23. Müller, M. and Wehner, R. 1988. Path integration in desert ants, *Cataglyphis fortis*. *Proceedings of the National Academy of Sciences USA* 85: 5287-5290.
24. Andel, D. and Wehner, R. 2004. Path integration in desert ants, *Cataglyphis fortis*: how to make a homing ant run away from home. *Journal of Comparative Physiology A* 175: 525-530.

### **October 18**

25. Nunes, S., et al. 1999. Energetic and endocrine mediation of natal dispersal behavior in Belding's ground squirrels. *Hormones and Behavior* 35: 113-124.
26. Hansson, B., et al. 2004. Lifetime fitness of short- and long-distance dispersing great reed warblers. *Evolution* 58: 2546-2557.

### **October 20**

27. Davies, N. B. 1978. Territorial defense in the speckled wood butterfly, *Pararge aegeria*: the resident always wins. *Animal Behaviour* 26: 138-147.
28. Kemp, D. J. and Wiklund, C. 2004. Residency effects in animal contests. *Proceedings of the Royal Society of London B* 271: 1707-1711.
29. Bergman, M., et al. 2007. Mating success of resident versus non-resident males in a territorial butterfly. *Proceedings of the Royal Society of London B* 274: 1659-1665.

### **October 22-25**

30. Meire, P.M. and Ervynck, A. 1986. Are oystercatchers (*Haemotopus ostralegus*) selecting the most profitable mussels (*Mytilus edulis*)? *Animal Behaviour* 34: 1427-1435.
31. Catania, K.C. and Remple, F.E. 2005. Asymptotic prey profitability drives star-nosed moles to the foraging speed limit. *Nature* 433: 519-522.
32. Caraco, T., et al. 1980. An empirical demonstration of risk-sensitive foraging preferences. *Animal Behaviour* 28: 820-830.
33. Wirsing, A.J., et al. 2007. Can you dig it? Use of excavation, a risky foraging tactic, by dugongs is sensitive to predation danger. *Animal Behaviour* 74: 1085-1091.

### **October 27**

34. Yorzinski, J.L. and Patricelli, G.L. 2010. Birds adjust acoustic directionality to beam their antipredator calls to predators and conspecifics. *Proceedings of the Royal Society of London B* 277: 923-932.
35. Quinn, J.L. and Cresswell, W. 2006. Testing domains of danger in the selfish herd: sparrowhawks target widely spaced redshanks in flocks. *Proceedings of the Royal Society of London B* 273: 2521-2526.

### **October 29-November 1**

36. Davies, N.B. and Halliday, T. 1978. Deep croaks and fighting assessment in toads *Bufo bufo*. *Nature* 274: 683-685.

37. Ryan, M.J. and Rand, A.S. 1990. The sensory basis of sexual selection for complex calls in the túngara frog, *Physalaemus pustulosus* (sexual selection for sensory exploitation). *Evolution* 44: 305-314.
38. Marler, P. and Peters, S. 1967. Selective vocal learning in a sparrow. *Science* 198: 519-521.

### **November 3**

39. Judge, P.G. 1991. Dyadic and triadic reconciliation in pigtail macaques (*Macaca nemestrina*). *American Journal of Primatology* 23: 225-237.
40. Kutsukake, N. and Clutton-Brock, T.H. 2008. Do meerkats engage in conflict management following aggression? Reconciliation, submission and avoidance *Animal Behaviour* 75: 1441-1453.
41. Pusey, A., et al. 1997. The influence of dominance rank on the reproductive success of female chimpanzees. *Science* 277: 828-831.

### **November 8**

42. Gross, M.R. and Charnov, E.L. 1980. Alternative male life histories in bluegill sunfish. *Proceedings of the National Academies of Sciences USA* 77: 6937-6940.

### **November 10**

43. Fincke, O. 1984. Sperm competition in the damselfly *Enallagma hageni* Walsh (Odonata: Coenagrionidae): benefits of multiple mating to males and females. *Behavioral Ecology and Sociobiology* 14: 235-240.
44. Neff, B.D., et al. 2003. Sperm investment and alternative mating tactics in bluegill sunfish (*Lepomis macrochirus*). *Behavioral Ecology* 14:634-641
45. Simmons, L.W. and Emlen, D.J. 2006. Evolutionary trade-off between weapons and testes. *Proceedings of the National Academy of Sciences USA* 103: 16346-16351.

### **November 12**

46. Petrie, M., et al. 1991. Peahens prefer peacocks with elaborate trains. *Animal Behaviour* 41: 323-332.
47. Petrie, M. 1994. Improved growth and survival of offspring of peacocks with more elaborate trains. *Nature* 371: 598-599.
48. Takahashi, M, et al. 2008. Peahens do not prefer peacocks with more elaborate trains. *Animal Behaviour* 75: 1209-1219.
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### **November 15**

50. Balmford, A., et al. 1993. Testing hotspot models of lek evolution: data from three species of ungulates. *Behavioral Ecology and Sociobiology* 33: 57-65.
51. Young, K.A. 2009. Hotshots, hot spots, and female preference: exploring lek formation models with a bower-building cichlid fish. *Behavioral Ecology* 20: 609-615.

### **November 17**

52. Kempenaers, B., et al. 1992. Extra-pair paternity results from female preference for high-quality males in the blue tit. *Nature* 357: 494-496.
53. Forster, K., et al. 2003. Females increase offspring heterozygosity and fitness through extra-pair matings. *Nature* 425: 714-717.

### **November 19**

54. Trumbo, S.T. 1991. Reproductive benefits and the duration of paternal care in a biparental burying beetle, *Necrophorus orbicollis*. *Behaviour* 117: 82-105.

### **November 29**

55. Ardia, D.R. and Clotfelter, E.D. 2007. Individual quality and age affect responses to an energetic constraint in a cavity-nesting bird. *Behavioral Ecology* 18: 259-266.

### **December 1**

56. Sherman, P.W. 1977. Nepotism and the evolution of alarm calls. *Science* 197: 1246-1253.
57. Reyer, H-U. 1984. Investment and relatedness: a cost/benefit analysis of breeding and helping in the pied kingfisher. *Animal Behaviour* 32: 1163-1178.
58. Wilkinson, G. 1984. Reciprocal food sharing in vampire bats. *Nature* 308: 181-184.

### **December 3**

59. Trivers, R.L. and Hare, H. 1976. Haplodiploidy and the evolution of the social insects. *Science* 191: 249-263.
60. Mueller, U.G. 1991. Haplodiploidy and the evolution of facultative sex ratios in a primitively eusocial bee. *Science* 254: 442-444.

### **December 6**

61. Whitehead, H. 1998. Cultural selection and genetic diversity in matrilineal whales. *Science* 282: 1708-1711.
62. Whitehead, H. and Rendell, L. 2004. Movements, habitat use and feeding success of cultural clans of South Pacific sperm whales. *Journal of Animal Ecology* 73: 190-196.
63. Marcoux, M. et al. 2007. Indications of fitness differences among vocal clans of sperm whales. *Behavioral Ecology and Sociobiology* 61: 1093-1098.

### **December 8**

64. Cheney, D.L. and Seyfarth, R.M. 1988. Assessment of meaning and the detection of unreliable signals by vervet monkeys. *Animal Behaviour* 36: 477-486.
65. Templeton, C.N., et al. 2005. Allometry of alarm calls: black-capped chickadees encode information about predator size. *Science* 308: 1934-1937.

### **December 10**

66. Brosnan, S.F. and de Waal, F.B.M. 2007. Monkeys reject unequal pay. *Nature* 425: 297-299.

### **December 13**

67. Povinelli, D.J. 1990. Inferences about guessing and knowing by chimpanzees (*Pan troglodytes*). *Journal of Comparative Psychology* 104: 203-210.
68. Hare, B., et al. 2001. Do chimpanzees know what conspecifics know? *Animal Behaviour* 61: 139-151.