

Seminar on Metapopulation Biology BSC 5932-44**Fall 2005**

Ecology, genetics, and evolution of metapopulations. 2004. I. Hanski and O. E. Gaggiotti (eds). Elsevier Academic Press

Classic metapopulation theory has expanded to encompass a range of patterns of spatial structure and a variety of processes. We will explore selected topics within this range, using the volume edited by Hanski and Gaggiotti as a road map. Each participant is expected to take responsibility for developing and presenting at least one topic for the group. The weekly leader will provide a reading assignment on his or her topic at least a week in advance, will present appropriate background information, and lead the discussion of the reading for that topic.

Week	Topic		Leader
Sept 16	History and development of the field		Winn
Sept 23	Source sink pop dynamics	Jue	
Sept 30	Local adaptation with dispersal		Nomann+
Oct 7			
Oct 14	Design of reserve networks		Braun
Oct 21	Selection and drift in metapops.		Oakley
Oct 28	Metapop dynamics in changing environments		Laskis
Nov 4			
Nov 11 (Vets. Day)			
Nov 18	Life history evolution in metapopulations	Tso	
Nov 25	Epidemiological models		Winn
Nov 30 (Thanksgiving)			
Dec 2			
Dec 9	Meta-community ecology		terHorst

Topics yet to be claimed:

Density-dependent dispersal (especially in animals)

How to measure dispersal – the coalescent?

Restoration ecology in a metapop framework