

## **Titles**

### *Workshop 1:*

Natural selection and random genetic drift in finite populations

### *Workshop 2:*

Demographic and environmental stochasticity in population dynamics

### *Seminar:*

Adaptive topographies for genetic and phenotypic evolution

## **Background readings**

### *Workshop 1:*

Wright, S. 1945. The differential equation of the distribution of gene frequencies. Proc. Natl. Acad. Sci. USA 31: 383-389.

Kimura, M. 1962. On the probability of fixation of mutant genes in a population. Genetics 47: 713-719.

\*Lande, R. 1976. Natural selection and random genetic drift in phenotypic evolution. Evolution 30: 314-334.

**\*This will be the paper for discussion on January 19**

### *Workshop 2:*

\*Chapters 1, 2 (and 3) in: chapters 1, 2

Lande, R., S. Engen and B.-E. Sæther. 2003. Stochastic population dynamics in ecology and conservation. Oxford Univ. Press, New York.

**\* we will focus our reading on chapters 1 and 2 for January 26**

### *Seminar:*

Wright, S. 1932. The roles of mutation, inbreeding, cross-breeding and selection in evolution. Proc. IV Int. Cong. Genet. 1:356-366.

Wright, S. 1967. "Surfaces" of selective value. Proc. Natl. Acad. Sci. USA 58:165-172.

Lande, R. 1979. Quantitative genetic analysis of multivariate evolution applied to brain: body size allometry. Evolution 33:402-416.

Lande, R. 1982. A quantitative genetic theory of life history evolution. Ecology 63:607-615.