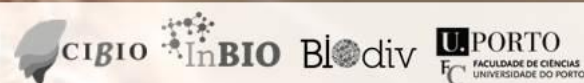


May 25-27, 2015 @ Vairão Campus



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**REQUIRED TEXT**

Mills, L. S. 2013. Conservation of Wildlife Populations: Genetics, Demography and Management. 2<sup>nd</sup> ed. Blackwell/Wiley Publishing, Oxford UK.

Each lecture will draw, in part, from the readings assigned for that lecture, and **the participants will be responsible for the concepts and principles presented in the readings.**

Other readings, required and optional, will be assigned during the course.

**List of Additional Readings FOR DISCUSSION (To be led by the participants)**

Altwegg, R., M. Schaub, and A. Roulin. 2007. Age-specific fitness components and their temporal variation in the barn owl. *American Naturalist* 169, 47-61.

Bouzat et al. 2009. Beyond the beneficial effects of translocations as an effective tool for the genetic restoration of isolated populations. *Conservation Genetics* 10:191-201.

Bro, E., Clobert, J., Reitz, F., and Sarrazin, F. (2000) Demography and the decline of the grey partridge *Perdix perdix* in France. *Journal of Applied Ecology* 37, 432-448.

Coulson et al. 2003. Estimating selection on neonatal traits in red deer using elasticity path analysis. *Evolution* 57:2879-2892.

Doak, D.F., Morris, W.F., Pfister, C., Kendall, B.E., and Bruna, E.M. (2005) Correctly estimating how environmental stochasticity influences fitness and population growth. *The American Naturalist* 166, E14-E21.

Eberhardt, L. L. 2002. A paradigm for population analysis of long-lived vertebrates. *Ecology* 83, 2841-2854.

Ezard, THG et al. 2010. Matrix models for a changeable world: the importance of transient dynamics in population management. *Journal of Applied Ecology* 47, 515-523.

Gaillard, J.-M. and Yoccoz, N.G. (2003) Temporal variation in survival of mammals: a case of environmental canalization? *Ecology* 84, 3294-3306.

Griffin, P. C., and L. S. Mills. 2009. Sinks without borders: snowshoe hare dynamics in a complex landscape. *Oikos* 118, 1487-1498.

Johnson, H. E., Mills, L. S., Stephenson, T. R. et al. (2010) Population-specific vital rate contributions influence management of an endangered ungulate. *Ecological Applications* 20, 1753-1765.

Johnson, H. E., Mills, L. S., Wehausen, J. D. et al. (2011) Translating Effects of Inbreeding Depression on Component Vital Rates to Overall Population Growth in Endangered Bighorn Sheep. *Conservation Biology* 25, 1240-1249.

Johnson, W. E. et al. 2010. Genetic restoration of the Florida panther. *Science* 329, 1641-1645.

Koons, D.N., Holmes, R.R., and Grand, J.B. (2007) Population inertia and its sensitivity to changes in vital rates and population structure. *Ecology* 88, 2857-2867.

Kramer et al 2009. The evidence for Allee effects. *Population Ecology* 51, 341-354.

Morris, W. F., Altmann, J., Brockman, D. K. et al. (2011) Low Demographic Variability in Wild Primate Populations: Fitness Impacts of Variation, Covariation, and Serial Correlation in Vital Rates. *American Naturalist* 177, 14-28.

Morris et al. 2008. Longevity can buffer plant and animal populations against changing climatic variability. *Ecology* 89, 19-25.

Newby, J. R., L. S. Mills, T. K. Ruth, D. H. Pletscher, M. S. Mitchell, H. B. Quigly, K. M. Murphy, and R. DeSimone. 2013. Human-caused mortality influences spatial population dynamics: pumas in landscapes with varying mortality risks. *Biological Conservation*. 159, 230-239.

Raithel, J.D., Kauffman, M.J., and Pletscher, D.H. (2006) Impact of spatial and temporal variation in calf elk survival on population growth rate. *Journal of Wildlife Management* 71, 795-803.

Tuljapurkar et al. 2009. From stochastic environments to life histories and back. *Philosophical Transactions of the Royal Society B*. 364, 1499-1509.