

Application of a Bayesian Latent Class Model

We analyze data on gene expression in yeast. A key element of what we consider to be best practice in the analysis of microarray data is the use of a sequence of methods which build upon our understanding of the experimental protocols and our extant knowledge of yeast cell cycle biology. Our analysis includes application of a Bayesian latent class model, which is combined with statistical tools available in SAS to investigate cell cycle expression patterns. We also investigate the sensitivity of analytic results to the imaging process.

Emmanuel N. Lazaridis, PhD
Director, MIDAS Pilot Center at USF
Co-Director, Biostatistics and Informatics Core
H. Lee Moffitt Cancer Center & Research Institute
Biostatistics Core, Cancer Control Program
University of South Florida
12902 Magnolia Drive, MRC 205 CANCONT
Tampa, FL 33612-9497
tel: 813-903-6810
fax: 813-632-1334
mailto:lazariden@moffitt.usf.edu
<http://www.midas.usf.edu>