

**The Third Annual
Janet L. Norwood Award
For Outstanding Achievement by a Woman
in the Statistical Sciences**

Dr. Alice S. Whittemore

Friday, October 15, 2004

9:30 AM

Alys Stephens Center
Reynolds-Kirschbaum Recital Hall
1200 Tenth Avenue South
Birmingham AL

Seminar Topic:

Some Statistical Problems in Human Genetics

Seminar Abstract:

Genetic research spawned by the Human Genome Project continues to generate new knowledge that may help prevent and treat human disease. Achieving these goals involves solving problems that require sophisticated approaches to study design and data analysis. In this talk I will describe some problems arising in the genetic epidemiology of cancers of the breast, ovary and prostate. I will show how established statistical tools have been applied in new settings to address important and difficult questions. My examples will focus on the tumor susceptibility gene BRCA1. I also will describe some unsolved problems in need of new approaches to study design and analysis.