



**R. Balfour Sartor, MD**

**Midgettte Distinguished Professor of Medicine, Microbiology & Immunology  
Co-Director, UNC Multidisciplinary Center for IBD Research and Treatment**

Degree	Institution	Area
BS	Washington-Lee University	Pre-medicine
MD	Baylor College of Medicine	Medicine
Fellowship	University of North Carolina	Gastroenterology
Post-doctoral training	University of North Carolina	Host-microbial interaction
Sabbatical	National Institutes of Health-NIDR	Molecular biology, immunoregulation

Clinical Interests: Management of patients with inflammatory bowel disease (Crohn's disease, ulcerative colitis and pouchitis).

Academic Interests: Basic and translational investigation of mechanisms of chronic intestinal inflammation and mucosal homeostasis. These studies are performed in genetically engineered (knockout and transgenic) mice, raised under specific pathogen-free, germ-free (sterile), or selectively colonized gnotobiotic conditions. Our studies investigate the ability of specific components of the intestinal microbiota to induce chronic T-cell mediated inflammation in genetically susceptible hosts vs. protective mucosal immune responses in normal hosts. Parallel studies investigate the ability of dietary products such as iron, sucrose, and fructose to modify the composition and function of intestinal microbiota. Recent studies have extended these microbial-host interaction studies to human samples, including mucosal biopsies and resected tissues from normal, Crohn's disease and ulcerative colitis patients.