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Gregory G. Martin

- Experience
- 2000-Present Texas A&M University College Station, TX
Post-Doctoral Research Associate/Assistant Research Scientist
- Analysis and elucidation of sterol carrier protein structure/function
 - Biochemical/physiological characterization of liver fatty acid binding protein gene-ablated mouse tissue
- 1993-2000 University of Southern Mississippi
Hattiesburg, MS
Graduate Research Assistant
- Purification of fungal hydrophobin protein and associated polysaccharide
 - Analysis of surface behavior of purified fungal components
 - Characterization of aqueous solution properties of purified fungal components
- 1990-1993 Stringer Attendance Center Stringer, MS
Teacher
- Taught high school (grades 9-12) biology, advanced biology, chemistry, advanced chemistry, and physics
- 1986-1990 The Upjohn Company Kalamazoo, MI
Biochemist
- Studied neurotransmitter receptors and related signal transduction systems involved in schizophrenia
- 1985-1986 University of Illinois Urbana, IL
Research Biochemist
- Studied the regulation of messenger RNA for a key enzyme involved in cholesterol biosynthesis
 - Managed accounts of the principal investigator's research grants
- 1980-1985 University of Illinois Urbana, IL
Graduate Research Assistant
- Studied the regulation of protein and messenger RNA for a key enzyme involved in cholesterol biosynthesis

1979-1980 Argonne National Laboratory Argonne, IL
Resident Student Aide

- Developed immunological tools for the detection and quantification of tumor antigens from rat hepatomas

Education

1993-1999 University of Southern Mississippi
Hattiesburg, MS

- Ph.D., Biochemistry; Minor, Polymer Science
- Dissertation Title: "Isolation and Characterization of a New Class of Amphipathic Biopolymers Capable of Self-Assembly from Aqueous Media"
- Dissertation Advisor: Dr. Charles L. McCormick

1980-1985 University of Illinois Urbana, IL

- M.S., Biochemistry
- Thesis Title: "Regulation of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase in Cultured Rat Liver Cells"
- Thesis Advisor: Dr. David J. Shapiro

1975-1979 University of San Diego San Diego, CA

- B.A., Chemistry

Selected Publications

Liver fatty acid-binding protein gene-ablated female mice exhibit increased age-dependent obesity. Martin GG, Atshaves BP, McIntosh AL, Mackie JT, Kier AB, Schroeder F (2008) *Journal of Nutrition* **138**, 1859-1865

Structure and function of the sterol carrier protein-2 N-terminal presequence. Martin GG, Hostetler HA, McIntosh AL, Tichy SE, Williams BJ, Russell DH, Berg JM, Spencer TA, Ball J, Kier AB, Schroeder F (2008) *Biochemistry* **47**, 5915-5934

Role of fatty acid binding proteins and long chain fatty acids in modulating nuclear receptors and gene transcription. Schroeder F, Petrescu AD, Huang H, Atshaves BP, McIntosh AL, Martin GG, Hostetler HA, Vespa A, Landrock D, Landrock KK, Payne HR, Kier AB (2008) *Lipids* **43**, 1-17

Selective cholesterol dynamics between lipoproteins and caveolae/lipid rafts. Storey SM, Gallegos AM, Atshaves BP, McIntosh AL, Martin GG, Parr RD, Landrock KK, Kier AB, Ball JM, Schroeder F (2007) *Biochemistry* **46**, 13891-13906

A new N-terminal recognition domain in caveolin-1 interacts with sterol carrier protein-2 (SCP-2). Parr RD, Martin GG, Hostetler HA, Schroeder ME, Mir KD, Kier AB, Ball JM, Schroeder F (2007) *Biochemistry* **46**, 8301-8314

Liver fatty acid binding protein gene ablation potentiates hepatic cholesterol

accumulation in cholesterol-fed female mice. Martin GG, Atshaves BP, McIntosh AL, Mackie JT, Kier AB, Schroeder F (2006) *American Journal of Physiology-Gastrointestinal and Liver Physiology* **290**, G36-48

Liver fatty acid binding protein (L-FABP) gene ablation alters liver bile acid metabolism in male mice. Martin GG, Atshaves BP, McIntosh AL, Mackie, JT, Kier AB, Schroeder F (2005) *Biochemical Journal* **391**, 549-560

Ablation of the liver fatty acid binding protein gene decreases fatty acyl-CoA binding capacity and alters fatty acyl-CoA pool distribution in mouse liver. Martin GG, Huang H, Atshaves BP, Binas B, Schroeder F (2003) *Biochemistry* **42**, 11520-11532

Decreased liver fatty acid binding capacity and altered liver lipid distribution in mice lacking the liver fatty acid binding protein gene. Martin GG, Danneberg H, Kumar LS, Atshaves BP, Erol E, Bader M, Schroeder F (2003) *Journal of Biological Chemistry* **278**, 21429-21438

Sterol carrier protein-2 functions in phosphatidylinositol transfer and signaling. Schroeder F, Zhou M, Swaggerty CL, Atshaves BP, Petrescu AD, Storey SM, Martin GG, Huang H, Helmkamp GM, Ball JM (2003) *Biochemistry* **42**, 3189-3202

Membrane charge and curvature determine interaction with acyl-CoA binding protein (ACBP) and fatty acyl-CoA targeting. Chao H, Martin GG, Russell WK, Waghela SD, Russell DH, Schroeder F, and Kier AB (2002) *Biochemistry* **41**, 10540-10553

Sterol carrier protein-2: structure reveals function. Stolowich NJ, Petrescu AD, Huang H, Martin GG, Scott AI, and Schroeder F (2002) *Cellular and Molecular Life Sciences* **59**, 193-212

Gene structure, intracellular localization, and functional roles of sterol carrier protein-2. Gallegos AM, Atshaves BP, Storey SM, Starodub O, Petrescu AD, Huang H, McIntosh AL, Martin GG, Chao H, Kier AB, and Schroeder F (2001) *Progress in Lipid Research* **40**, 498-563

Sc3p hydrophobin organization in aqueous media and assembly onto surfaces as mediated by the associated polysaccharide schizophyllan. Martin GG, Cannon GC, McCormick CL (2000) *Biomacromolecules* **1**, 49-60

Adsorption of a fungal hydrophobin onto surfaces as mediated by the associated polysaccharide schizophyllan. Martin GG, Cannon GC, McCormick CL (1999) *Biopolymers* **49**, 621-633