

## CURRICULUM VITAE

January 4, 2005

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**BIRTHDATE AND PLACE:** 03/28/1972, Dallas, Texas

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### ACADEMIC APPOINTMENTS

2000-2004 Postdoctoral Fellow, UT Southwestern Med Ctr., Dallas, TX Molecular Genetics  
2004-present Assistant Professor, Pharmaceutical Sciences, University of Kentucky, Lexington KY

### EDUCATION

1990-1994	BS, Texas A&M University, College Station, TX	Animal Sciences
1994-1996	MS, University of Kentucky, Lexington, KY	Reproductive Physiology
1996-2000	PhD, University of Kentucky, Lexington, KY	Physiology

### TEACHING RESPONSIBILITIES

1995-1996 Artificial Insemination/Fertility of Farm Animals (ASC 462G), Teaching Assistant, University of Kentucky  
1997-1998 Advanced Cardiovascular Physiology (PGY 604) Lecturer, University of Kentucky  
1999-2000 Human Physiology (BIO 352) Lecturer, Asbury College, Wilmore Kentucky

### ADMINISTRATIVE RESPONSIBILITIES

1992-1993 Alpha Zeta Agricultural Honor Fraternity, Class President  
1993-1994 Alpha Zeta Agricultural Honor Fraternity, Chancellor  
1998-1999 Graduate Student Representative to Faculty, Department of Physiology, University of Kentucky

### MEMBERSHIP IN SCIENTIFIC SOCIETIES

1999-present Arteriosclerosis, Thrombosis and Vascular Biology Scientific Council, American Heart Association,  
1997-present American Society for Cell Biology  
1995-2000 Society for the Study of Reproduction

## HONORS AND AWARDS

- 1990-1994 Merit Scholarship from San Antonio Livestock Exposition Scholarship, Texas 4H Foundation
- 1993 Gibbs Beef Production Scholarship, Department of Animal Science
- 1992-1994 Alpha Zeta Agricultural Honor Fraternity
- 1998 Outstanding Poster Presentation, Linda and Jack Gill Heart Institute, University of Kentucky
- 2000 Visiting Distinguished Faculty Fellowship, University of Kentucky
- 2000-2003 Training in Cardiovascular Physiology Fellowship, UT Southwestern
- 2002 Merit Award for Young Investigators, American Heart Association Council on Arteriosclerosis, Thrombosis and Vascular Biology

## INVITED TALKS

1. Department of Animal Sciences, Texas A&M University, College Station, TX, 2002
2. Department of Biology, Midwestern State University, Wichita Falls, TX 2003
3. Center for Nutritional Sciences, University of Kentucky, Lexington, KY 2004
4. Department of Physiology, University of Kentucky, Lexington, KY 2004

## PUBLICATIONS

1. Spencer, TE, **GA Graf**, and FW Bazer 1995 Sulfated glycoprotein-1 (SGP-1) expression in ovine endometrium during the estrous cycle and early pregnancy. *Reproduction, Fertility and Development* **7**:1053-1060
2. Burns, PD, S-J Tsai, MC Wiltbank, SH Hayes, **GA Graf**, WJ Silvia 1997 Effect of oxytocin of concentrations of prostaglandin H synthase-2 mRNA in ovine endometrial tissues *in vivo*. *Endocrinology* **138**:5637-5640
3. Burns, PD **GA Graf**, SH Hayes and WJ Silvia 1997 Cellular mechanisms by which oxytocin stimulates uterine PGF<sub>2</sub> synthesis in bovine endometrium: roles of phospholipase C and cPLA<sub>2</sub>. *Domestic Animal Endocrinology* **14**:181-191
4. **Graf, GA**, PD Burns, and WJ Silvia 1998 Oxytocin- and aluminum fluoride-induced phospholipase C activity and prostaglandin F<sub>2</sub> secretion during the ovine luteolytic period. *The Journal of Reproduction and Fertility* **112**:225-231
5. Webb, NR, PM Connell, **GA Graf**, EJ Smart, WJS de Villiers, FC de Beer, and DR van der Westhuyzen 1998 SR-BII, an isoform of scavenger receptor BI containing an alternate cytoplasmic tail, mediates lipid transfer between high density lipoproteins and cells. *The Journal of Biological Chemistry* **273**:15241-15248
6. **Graf, GA**, PD Burns and WJ Silvia 1999 Ovine endometrium expresses a cytosolic phospholipase A<sub>2</sub> on days 11-14 of a simulated estrous cycle. *The Journal of Reproduction and Fertility* **115**:357-363
7. **Graf, GA**, PM Connell, DR van der Westhuyzen and EJ Smart 1999 SR-BI promotes the selective uptake of HDL cholesterol esters into caveolae. *The Journal of Biological Chemistry* **274**:12043-12048

8. Smart, EJ, **GA Graf**, MA McNiven, WC Sessa, JA Engelman, PE Scherer, T Okamoto, MP Lisanti 1999 Caveolins, liquid ordered domains and signal transduction. *Molecular and Cellular Biology* **19**:7289-7304
9. **Graf, GA**, SV Matveev and EJ Smart 1999 Class B scavenger receptors, caveolae and cholesterol homeostasis. *Trends in Cardiovascular Medicine* **9**:221-225
10. Burns, PD, **GA Graf**, SH Hayes, WJ Silvia 2000 Effect of oxytocin on expression of cytosolic phospholipase A2 mRNA and protein in ovine endometrial tissue in vivo. *Domestic Animal Endocrinology* **19**:237-246
11. Berge, KE, H Tian, **GA Graf**, L Yu, NV Grishin, J Schultz, P. Kwiterovich, B Shan, R Barnes, HH Hobbs 2000 Accumulation of dietary cholesterol in Sitosterolemia caused by mutations in adjacent ABC transporters. *Science* **290**:1771-1775
12. **Graf, GA**, KR Roswell and EJ Smart 2001 17 $\beta$ -Estradiol promotes the up-regulation of SR-BII in HepG2 cells and in rat livers. *J Lipid Research* **42**: 1444-1449
13. **Graf GA**, WP Li, RD Gerard, I Gelissen, A White, JC Cohen, and HH Hobbs 2002 Coexpression of ATP-binding cassette proteins ABCG5 and ABCG8 permits their transport to the apical surface. *Journal of Clinical Investigation* **110**:659-669.
14. Stangl H, **GA Graf**, L Yu, G Cao and K Wyne 2002 Effect of estrogen on scavenger receptor BI expression in the rat. *Journal of Endocrinology* **175**:663-672
15. Hobbs HH, **GA Graf**, L Yu, KR Wilund 2002 Genetic Defenses against Hypercholesterolemia. *Cold Spring Harbor Symposia on Quantitative Biology* **67**:499-505
16. **Graf GA**, L Yu, WP Li, RD Gerard, JC Cohen and HH Hobbs 2003 ABCG5 and ABCG8 are obligate heterodimers for protein trafficking and biliary cholesterol excretion. *The Journal of Biological Chemistry* **278**:48275-48282
17. **Graf GA**, JC Cohen and HH Hobbs (2004) Missense mutations in ABCG5 and ABCG8 disrupt heterodimerization and trafficking. *The Journal of Biological Chemistry* **279**:24881-24888

## RESEARCH SUPPORT

### Current

American Heart Association (National) Scientist Development Grant “Formation, Folding and Trafficking of the ABCG5 ABCG8 Sterol Transporter” \$240,000 (65,000/yr 2005 – 2008)

### Pending

NIH Centers of Biomedical Research Excellence (COBRE) “Center of Research in Obesity and Cardiovascular Disease: Project 4 - Adipocyte Cholesterol and Free Fatty Acid Metabolism in Obesity” \$850,000 (170,000/yr 2005/2006 – 2009/2010)

Searle Scholars Program “Adipocyte Cholesterol and Free Fatty Acid Metabolism in Obesity” \$240,000 (80,000/yr 2005/2006 – 2007/2008)