

CURRICULUM VITAE
Velva J. McWhinney, PhD
Cooperative Agricultural Research Center
Prairie View A&M University
Prairie View, TX 77446

EDUCATION:

| <u>Institution and Location</u> | <u>DEGREE</u> | <u>YEAR</u> | <u>FIELD OF STUDY</u> |
|---|---------------|-------------|-----------------------|
| Prairie View A&M University Prairie View, Texas | B.S. | 1981 | Biology |
| Prairie View A&M University Prairie View, Texas | M.S. | 1983 | Chemistry |
| Texas A&M University College Station, Texas | Ph.D. | 1991 | Nutrition |
| Baylor College of Medicine/Children Nutrition Research/USDA/ARS Houston, Texas | Post-Doc | 1994 | Pediatric Nutrition |

POSITIONS AND HONORS:

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|----------------|--|
| 1981-1984 | Lab Technician/Research Assistant, Department of Chemistry Prairie View A&M University |
| 1985-1987 | Teaching Assistant, Department of Biochemistry & Biophysics Texas A&M University. |
| 1990-1991 | Research Assistant, Department of Animal Science, Texas A&M University. |
| 1991 | Research Associate/Instructor, Department of Chemistry Prairie View A&M University |
| 1991-1994 | Post-Doctoral, Children's Nutrition Research Center, Baylor College of Medicine, ARS/USDA |
| 1992 - present | Research Scientist, Cooperative Agricultural Research Center, Prairie View A&M University |
| 2006-2007 | Lecturer Houston Community College System, Central Campus, Houston, TX |

AWARDS AND RECOGNITION

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|-----------|--|
| 1994 | Leader - Prairie View A&M University |
| 1997 | Outstanding Recognition - NASA Sharp Plus Program Mentor |
| 1999 | Partner in Education Recognition H.T. Jones Elementary |
| 1999-2005 | Certification of Appreciation - Research Apprenticeship Program |
| 2004-2005 | Certificate of Appreciation - Schultz Middle School |
| 2005 | 4-H Clover Award - 2 year Leaders |
| 2005 | Certificate of Appreciation, ΣΦΒ Sorority, Inc., Self Esteem Does Matter Seminar |

OTHER EXPERIENCES AND PROFESSIONAL MEMBERSHIP:

Membership

American Society for Nutritional Science
 Federation of American Society for Experimental Biology

Institute of Food Technology
National Academic Advising Association
Prairie View A&M Alumni Association – Local and National 2008-2009

Committees – Prairie View A&M University, Prairie View, TX

5th Annual Research Symposium Committee Member, College of Juvenile Justice, 2008-2009
CEP Youth Career Awareness and Leadership Lab Steering Committee – 2008, 2009
Food System Program, CARC, PVAMU, Prairie View, TX - **Chair** 1999-2008
Institutional Biosafety Committee 2002- 2006; Secretary 2002-2005; **Chair** 2005 – 2006
Diabetes Education Awareness Program Evaluator 2005-2009
College Agriculture & Human Sciences Scholarship Committee – 2005-2009
Search Committees – Member 2005-2006
-Research Scientist, Texas Juvenile Crime Prevention Center, College of Juvenile Justice and Psychology
-Assistant/Associate Professor, CAHS
Agronomy/Soil Science
Human Science
Nutrition and Dietetics
-Department Head, Agriculture, Nutrition and Human Science, CAHS
CAHS Excellence Team, Prairie View A&M University, Prairie View, TX 2005-2006
-Research
-Extension
-Leadership Team
Southern AgBiotech Consortium for Underserved Communities 2001-2004
Project Hope - 2001-2003
MBRS Advisory Committee - Member, 1997-1999
Graduate Student Research Assistantship - Member 1996-1999
Swine Research Committee – Chair 1994-1996
Human Environmental Quality - Chair, 1994-1995
Cooperative Agricultural Research Seminar Series – Chair

**PROFESSIONAL AND DEVELOPMENTAL TRAINING:
2003-2004**

-Supervisor Orientation, Prairie View A&M University
-Performance Evaluation Training, Prairie View A&M University
-Train the Trainer: Biosafety for Security and Municipal Responders
ABSA, October 15-17, San Antonio, TX
-Hazard Communication Training, ONLINE TRAINING, October 28, 2004, Texas A&M University, College Station, TX.
-USDA Web Base Training Course – ABC of Dietary Guideline for American Science & Application, November 15.

2004-2005

-Radiological Safety Training, ONLINE TRAINING-Update, June 6, Texas A&M University, College Station, TX
-Southwest Region Conference for IBC Best Practices: Today and Tomorrow, August 18-19, San Antonio, TX

2005-2006

- Institutional Biosafety Committee Best Practice, San Antonio, TX, August 2005
- EHSD Laboratory Safety Training, CARC, October 4, 2005
- LEAD21 Class 2006-2007 Leadership Training Conference, University Place Conference Center and Hotel, Indianapolis, Indiana, June 18-23, 2006.
- Microscopy/Imaging Workshop, TAMU, College Station, TX, October 28, 2005 (Attendee)
- Proteomic Workshop, TAMU, College Station, TX, January 9-13, 2006 (Attendee)
- Comprehensive Workshop in OSHA Compliance, Houston, TX, 6/15-16/2006 (Attendee)

INVITED SPEAKER-WORKSHOP

- IBC-CAHS WORKSHOP, CARC RETREAT – 2002-2006
- Recommendations for Effectively Addressing Obesity and Nutrition Issues, CSREES, Washington, DC, November 29-30, 2005 (Presenter)
- CARC Retreat; 2007

TEACHING

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|-----------|---------------------------------------|--|
| HUSC 1343 | Ecology of Nutrition/Basic Nutrition | Fall 2003, 2007 |
| AGHR 5823 | Special Topics: Advanced Nutrition | Spring 2004 |
| FDSC 3583 | Food Quality Assurance and Sanitation | Fall 2005, 2006, 2007, 2008 |
| FDSC-4573 | Food Processing and Engineering | Spring 2006, 2008 |
| AGEC 3203 | World Food Seminar | Spring 2006, 2007, 2008 Fall/Spring 2008-2009 |

PEER-REVIEWED PUBLICATIONS

- Mora-Gutierrez, A., Farrell, H.M, Jr., Attaie, R., **McWhinney, V.J.** and Wang, C. (2006) Effects of bovine and Caprine Monterey jack cheeses fortified with milk calcium on bone mineralization in rats. *International Dairy Journal*, Elsevier Ltd
- McWhinney, V.**, W. Pond, and H. Mersmann. **1996.** Ontogeny and Dietary Modulation of 3-Hydroxy-3-methylglutaryl-CoA Reductase Activities in Neonatal Pigs. *J. Anim. Sci.* 74:2203-2210.
- Schoknect, P., S. Ebner, W. Pond, Pond, W., Zhang, S., **McWhinney, V.**, Wong, W., Klein, P., Dudley, M., Goddard-Finegold, J., and Mersmann, H. **1994.** Dietary Cholesterol Supplementation Improves Growth and Behavioral Response of Pigs Selected for Genetically High and Low Serum Cholesterol. *J. Nutr.* 124: 305-314.
- Doctor, V.M., D. Lewis, M. Coleman, M.T. Kemp, E. Marbley, and **V. Sauls (McWhinney)**. **1991.** Anticoagulant properties of semisynthetic polysaccharide sulfate. *Thrombosis Research.* 64:413-425.

Peer Reviewed Abstracts and Presentations

- Jamie Green, Silvester Robinson, Lorna Doore and Velva McWhinney. Examining Reproductive Performance and Adipokines in Lean and Obese Sow Housed at PVAMU's Swine Facility. March 2009, ARD 2009, Atlanta, GA.
- Jamie Green, Silvester Robinson, Demetris Reed, Lorna Doore and Velva McWhinney. Reproductive Performance of Lean and Obese Sow Housed at PVAMU's Swine Facility, MANNRS 2009.
- Stewart, Dwain, Godwin Jennifer and McWhinney, Velva. The interactive effect of dietary fat and cholesterol and fat on cleaved SREBP-1 in obese and lean pigs. MANNRS, 2007.

- McWhinney V., Godwin J., McWhinney D., Lack of interactive effects of exogenous cholesterol and fat on of SREBP in pigs of divergent background during postnatal development EB2007. Washington, D.C. April 28-May2, 2007
- Obiomon, Pamela and **McWhinney, Velva J., (2006)** The role of advising in improving retention of at risk students, NACADA 2006 Regional Conference, March 9-11, Little Rock, AR.
- Doore, Lorna, Godwin, Jennifer and **McWhinney, Velva J., (2006)** Sterol regulatory element binding protein-2 response to cholesterol in obese and lean pigs. Abstract #47, Association of Research Directors, Inc. 14th Biennial Research Symposium April 1 – April 5, 2006 Atlanta, GA.
- McWhinney, Velva J.,** Doore, Lorna and Godwin, Jennifer. (2006) The association of a saturated fat diet with an increase in cleaved SREBP-2 in obese and lean pigs. Abstract #170, Association of Research Directors, Inc., 14th Biennial Research Symposium, April 1 – April 5, Atlanta, GA.
- Stanley, V.G., Davis, R.R., **McWhinney, V.** and Gray, C. (2006) The effects of Sel-Plex on Neutralizing natural feed toxins in broiler ration. Abstract # 90, Association of Research Directors, Inc., 14th Biennial Research Symposium, April 1 – April 5, Atlanta, GA
- Davis, R., Stanley, V., **McWhinney, V.,** and Sefton, A. (2005) The Effect of Organic Selenium (SelPlex) on Oxidative Stress Induced by An Infeed Toxin, Environment and Management: Broilers I 2005 Poultry Science Association Annual Meeting Conference, Auburn University, AL, July 31-August 3, 2005.
- Victor Stanley & **Velva J. McWhinney, (2005)** The Effect of Organic Selenium on Oxidative Stress Induced by An Infeed Toxin, Small Farms Concurrent Session, AED/ARD Joint Conference, New Orleans, June 20, 2005.
- Mora-Guiterriez, Adela, **McWhinney, Velva** and Wang, Chang, (2004) Effect of Caprine Caseinophosphopeptides on Bone Calcium Mineralization in Male Rats. July 2004, IFT. Las Vegas, NV.
- McWhinney, V.J.,** Godson, Osuji and Keys, Nathaniel (2004) Cropping with Biotechnology Conference, “Primary School, High School, College and Consumer Education in Biotechnology”, Cooperative Agricultural Research Center, Prairie View A&M University, Prairie View, TX 77446.
- McWhinney, Velva J.,** Jennifer Godwin, Cordella Kelly-Brown and Dalton R. McWhinney. (2003) Influence of Dietary Cholesterol on Endoplasmic Reticulum Cholesterol Concentration in Neonatal Pigs. Association of Research Directors, Inc. Thirteenth Biennial Research Symposium Abstract #176. Atlanta, GA. March 29- April 2, 2003, pg 111.
- McWhinney, V.J.,** Johnson, B.J., and McWhinney, D.R. (2003) Training and Resources in Science for Schools in Areas of Limited Resources. Association of Research Directors, Inc. Thirteenth Biennial Research Symposium Abstract #148. Atlanta, GA. March 29-April 2, 2003, pg 99.
- McWhinney, Dalton R., Kinglsey Dunkley, Michael Hume, **Velva J. McWhinney,** Todd Callaway and Barbara Johnson (2003) Potential for Biological Control of Pasteurella (Mannhemia) haemolytica using a Competitive Exclusion Culture. Association of Research Directors, Inc. Thirteenth Biennial Research Symposium Abstract #45. Atlanta, GA. March 29-April 2, 2003, pg 54.

- McWhinney, Dalton R., Samuel Golding, Todd Callaway, **Velva J. McWhinney**, and Lindsay Weatherspoon (2003) Hazard Analysis and Critical Control Point for Skin-on Flamed Treated Goat Carcasses. Association of Research Directors, Inc. Thirteenth Biennial Research Symposium Abstract #120. Atlanta, GA. March 29-April 2, 2003, pg 87.
- Smith, V. Garfield, K. Godwin, J. McWhinney, D. And Sauls-McWhinney, V. 2001. Influence of Randomized corn oils on enzymes involved in cholesterol metabolism Minority Biomedical Research Symposium National Meeting, Washington D.C November 8-12.
- Gill, C., Horner, S., McWhinney, V. and McWhinney, D. 2002. Rapid detection of sub-clinical mastitis in dairy goats. #225 J. Anim. Sci. 80:57.
- Candy Cromwell, Somer Taylor, **Velva Sauls-McWhinney** and Dalton R. McWhinney. Characterization of Catalytic Antibody Function in Caprine Arthritis Encephalitis Virus Infected Goats. 7th Biennial Symposium on Minorities, The Medically Underserved and Cancer. "Addressing the Unequal Burden of Cancer". Grand Hyatt, Washington D.C. February 9-13, 2000.
- Chavone Momon, Jennifer Godwin, and **Velva McWhinney**. Influence of Dietary Cholesterol on Endoplasmic Reticulum Cholesterol Concentration in Neonatal Pigs. (Competitive Competition) Tri-Beta National Meeting, Hilton Hotel, Ponce, Puerto Rico. June 1- 5, 2000.
- Dalton R. McWhinney, Corey W. Fink, Candy Cromwell, **Velva J. McWhinney**, Lindsay Weatherspoon, Barbara Johnson. Post Weaning Performance of Boer X Nubian and Boer X Spanish Cross bred Kids Under Semi-feedlot Operation. ARD. Washington, D.C. April 19-22, 2000.
- Jennifer Godwin, Kiley Williams, Katrina Garfield and **Velva Sauls-McWhinney**. 1999. Impact of Dietary Lipid on Cholesterol Synthesis and Acylation in Neonatal Pigs. Experimental Biology '99. Washington, D.C.
- Kiley Williams, Katrina Garfield, Chavone Momon, Jennifer Godwin, and **Velva Sauls-McWhinney**. 1998. Dietary Lipid Effects on Brain Cholesterol Metabolizing Enzyme, 3-Hydroxy-3-Methylglutaryl- Coenzyme A Reductase and Acyl Coenzyme A Cholesterol Acyltransferase, Activities and Fatty Acid Profile in Neonatal Pigs. Abstract # G74 pp.114 National Minority Research Symposium. New York, N.Y.
- McWhinney, D. Thompson, C., Weatherspoon, L., Solomon, L., and **McWhinney, V.** 1997. Effects of Antibiotics in a Soybean/Sorghum Ration Fed to Finishing Pigs. Abstract. Association of Research Directors Symposium. San Antonio, TX.
- Bourda Bettina and **V. McWhinney**. 1996. Dietary Cholesterol and Age Effects on 3-hydroxy-3-methylglutaryl CoA reductase and Acyl Coenzyme A Cholesterol:Acyltransferase Activities in Neonatal Pigs. Abstract F44. pp121. National Minority Reserach Symposium. Miami, Florida.
- McWhinney, V.**, W. Pond, and H. Mersmann. 1994. Dietary Suppression of 3-hydroxy-3-methylglutaryl CoA reductase in neonatal lean and obese pigs. Abstract. Part 1, FASEB Journal # 3147, p. A543.
- McWhinney, V.**, W. Pond, and H. Mersmann. 1993. Ontogeny of 3-hydroxy-3-methylglutaryl CoA reductase in pig liver and intestine. Abstract. Part 1, FASEB Journal # 365, p. A64.
- McWhinney, V.** and S.B. Smith. 1991. Incorporation of a synthetic [12, 13 -³H]cis-12-octadecenoic acid into rat liver and adipose tissue lipids. Abstract: FASEB Journal

Non-Peer Reviewed Abstracts and Publications

- Godwin, J.J. and **McWhinney, V.J.** (2006-2007) Science Club Activities Manual for Elementary School Age Students, Vol 4, pp 1-113
- Doore, Lorna and **McWhinney, Velva** (2005) Health and Human Performance Career/Health Fair, Student Memorial Center, PVAMU, Prairie View, TX.
- McWhinney, Velva J.**, Institutional Biosafety Committee and BioSafety, CARC Retreat, Houston, TX. May 20, 2005.
- McWhinney, Velva.** Panel Discussion and Presentation - Primary School, High School, College and Consumer Education in Biotechnology. Cropping With Biotechnology - SACUC Conference. Prairie View A&M University, Prairie View, Tx. June 13-15, 2004.
- Godwin, J.J. and **McWhinney, V.J.** (2005) Science and Biotechnology Resources Manual for Grades K-12, Vol 4. pg 1-195.
- Godwin, J.J. and **McWhinney, V.J.** (2005-2006) Science Resources Manual for College Level Courses, Vol 4, pp 1-100.
- Godwin, J.J. and **McWhinney, V.J.** (2005 -2006) Science Club Activities Manual for Middle School Age Students, Vol 4, pp 1-113.
- Godwin, J.J. and **McWhinney, V.J.** (2005-2006) Science Club Activities Manual for Elementary School Age Students, Vol 4, pp 1-113

RESEARCH SUPPORT:

- Building Capacity in Food Science Studies at PVAMU. Eric Risch (PI), Attaie, R. Mora-Gutierrez, Adela, **McWhinney, Velva** (CoPI), USDA-CSREES-CBG, 10/01/06 – 9/30/09, \$299,987.00
- Bridges to Doctorate, Bazer, Fuller and Newton, Gary (CoPI) NIH 2006, **McWhinney, Velva** (Mentor)
- USDA/CSREES Project No. TEXX-0017. (2001-2005). Overall goal is to study dietary-developmental regulation of tissue cholesterol in obese and lean neonatal pigs. Principal Investigator
- NRI Competitive Grants Program USDA-CSREES Agreement # 2001-35503-10992 Proposal # 2001-01811 (2001-2005). The goal is to characterize and examine the bioavailability of caeinophopeptides for bone mineralization. Co-Investigator.
- Capacity Building Grants Program CSREES/USDA Agreement # 2001-38820-11398 (2001-2004). Principal Investigator. Overall goals were to develop laboratory based instructional activities that enhance the students' skills in the application of scientific instrumentation in the food and agricultural sciences; to provide scientist-mentored laboratory research studies and programs mentoring mini-research projects for students; to provide laboratory-based instructional outreach. Principal Investigator.
- Southern AgBiotech Consortium for Underserved Communities USDA/CSREES/Initiative for Future Agriculture and Food System (IFAFS). Proposal Number 0000071 2000-2005. The overall goal is to provide information and knowledge in agricultural biotechnology among the underserved communities. Education Coordinator at Prairie View A&M University.
- NIH MBRS Grant # 2SO6GM08094-22. (1996-2000). The goal was to test for differential effects on growth and cholesterol metabolism when cholesterol-supplemented native or randomized corn oil and coconut diets are fed to pigs during early postnatal development. Principal Investigator.

OTHER PROFESSIONAL/ACADEMIC ACTIVITIES

ADVISOR – PVAM Goat Exhibition Team

Primary – Academic Year 2007-2008

Secondary – Academic Year 2008-2009

CONSULTANT: Developed initial HACCP Plan and Standard Operating Procedures for Zabiha Meat Processing Inc. Weatherford, TX 76086 (APPROVED)

Resources for Training in the Food and Agricultural Sciences - Program Director

Program provides diverse educational laboratories activities and resources for classrooms and resources at college and high school to elementary levels, after school programs Science Clubs and farm tours. Additionally, the program hosts High School to elementary school science related workshops.

Science Clubs

Holleman Elementary School, Waller, TX School Year 2001-2007

H.T. Jones Elementary School, Prairie View, TX School Year 2001-2009

Schultz Middle School, Waller, TX School Year 2001-2006

Laboratory Assistance – School Year 2001 -2009

Biochemistry – Department of Biochemistry

Science Classes – Waller Junior High School

Elementary Textile – CAHS

-Southern AgBiotechnology Consortium for Underserved Communities

Educational Program Director

Program provides diverse educational biotechnology related laboratories activities and resources for classrooms and resources at college and high school to elementary levels, after school programs Science Clubs and farm tours

Student Advisees-

Undergraduate and Graduate

CAHS, PVAMU, Prairie View, TX

OUTREACH AND SERVICE

Rainbow 4H Leader, Prairie View, TX 2000-2005