CURRICULUM VITAE

NAME: L. PRESTON MERCER, II, Ph.D., F.A.C.N.

CURRENT POSITION Professor - Biochemistry
The University of South Florida at Lakeland
3433 Winter Lake Rd.
Lakeland, FL 33803-9714
863\667-7003 (office)
pmercer@lakeland.usf.edu (E-mail)

EDUCATION: 1968 B.S. Chemistry, University of Texas, Austin, Texas
1971 Ph.D. Biochemistry, Louisiana State University, Baton Rouge, Louisiana
1973 NIH Postdoctoral Fellow, Nutritional Biochemistry , University of Alabama - Birmingham, College of Medicine, Birmingham, Alabama

CERTIFICATIONS: Certified Nutrition Specialist
Certificate #00067
The Certification Board for Nutrition Specialists

POSITIONS:

1968-70 Teaching Assistant, Louisiana State University, Baton Rouge, Louisiana
1970-71 National Science Foundation, Pre-doctoral Trainee, Louisiana State University, Baton Rouge, Louisiana
1971-73 National Institute of Health Postdoctoral Fellow, Biochemical Nutrition, University of Alabama in Birmingham College of Medicine, Birmingham, Alabama
1973-74 Instructor, Department of Biochemistry, University of South Alabama College of Medicine, Mobile Alabama
1974-77 Assistant Professor, Department of Biochemistry, University of South Alabama College of Medicine
1977-80 Assistant Professor, Department of Biochemistry, Schools of Medicine and Dentistry, City of Faith Hospital/Oral Roberts University, Tulsa, Oklahoma
1980-84 Associate Professor, Department of Biochemistry, Schools of Medicine and Dentistry, COF/ORU
1981-90 Chair, Department of Biochemistry, Schools of Medicine and Dentistry, COF/ORU
1984-90 Professor, Department of Biochemistry, School of Medicine, COF/ORU
1984 Tenure awarded
1988-89 Chair, Department of Chemistry, ORU
1988-89 President, Medical Faculty Assembly, School of Medicine, COF/ORU
1989-90 Associate Dean, Biomedical Sciences, School of Medicine, COF/ORU
1990-99 Professor, Department of Nutrition and Food Science, University of Kentucky
1990-96 Chair, Department of Nutrition and Food Science, University of Kentucky
1996-99 Chair, Department of Nutrition and Food Science, University of Kentucky (second term)

1990-99 Professor, Graduate Faculty, University of Kentucky
1990-99 Professor, Multidisciplinary Ph.D. Program in Nutritional Sciences, University of Kentucky
1990-99 Professor, Agricultural Experiment Station, College of Agriculture, University of Kentucky
1991-93 Director of Graduate Studies, University of Kentucky
1996-99 Human Nutrition Advisory Committee, Southern Association, Agricultural Experiment Station Directors, United States Department of Agriculture
1996-01 United Nations Educational, Scientific and Cultural Organization/Third World Academy of Science Visiting Professor in Science and Sustainable Development, Department of Nutrition, National Research Center, Giza, Dokki, Egypt
1996-01 Board Member - Certification Board for Nutrition Specialists, The American College of Nutrition
1997-99 Faculty Member, Lucille P Markey Cancer Center
1999- Dean, University of South Florida at Lakeland
1999- Professor, Department of Chemistry, University of South Florida
2001-06 Campus Executive Officer, University of South Florida at Lakeland
2001-06 Vice President of Academic Affairs, University of South Florida
2002-05 Vice President, Board of Directors – Central Florida Development Council (http://www.cfdc.org/content/interior.asp?section=cornerstone&body=intellectual)
2005-7 American Heart Association leadership Circle

HONORS & AWARDS:

National Science Foundation, Pre-doctoral Trainee, Louisiana State University, Baton Rouge, Louisiana
National Institute of Health Post-doctoral Fellow, University of Alabama-Birmingham, School of Medicine, Birmingham, Alabama
Listed in "American Men and Women of Science"
Listed in "Who's Who in the Southwest"
Listed in "Who's Who"
Listed in "Who's Who in Science and Engineering"
Fellow of the American College of Nutrition
President - Medical Faculty Assembly, COF/ORU School of Medicine and Dentistry, Tulsa, OK
Grand Finals Judge - International Science Fair
United Nations Educational, Scientific and Cultural Organization/Third World Academy of Science Visiting Professor in Science and Sustainable Development
Interfraternity Council’s Outstanding Professor Award nominee
Distinguished Lecturer, College of Medicine, University of South Alabama
“Power of Education Award”, Central Florida Area Agency on Aging

PROFESSIONAL SOCIETIES - ELECTED MEMBERSHIP

American Society for Biochemistry and Molecular Biology
American Society for Nutritional Sciences
American College of Nutrition (Fellow)

EDITORIAL BOARDS, MANUSCRIPT, GRANT, PROGRAM, GRADUATE STUDENT, FACULTY REVIEW

Editorial Board – Journal of Nutritional Biochemistry – 2001 – current
Asian Network for Scientific Information
Asian Journal of Clinical Nutrition
United States Department of Agriculture
National Science Foundation
Journal of Nutrition
Journal of Radiation Biology
Brain Research
Experimental Neurology
Journal of Laboratory and Clinical Medicine
American Journal of Clinical Nutrition
American Association of Cancer Research
Comparative Biochemistry and Physiology
Journal of the American College of Nutrition
The Journal of Consumer Affairs
Journal of Clinical Investigation
Journal of Nutritional Neuroscience
Journal of Cerebral Blood Flow and Metabolism
Journal for Neuroscience Research
Metabolism
Molecular Brain Research
Journal of Chromatography
Journal of Toxicological Sciences
Current Nutrition & Food Science
Outside reviewer, Department of Nutrition, National Research Center, Giza, Dokki, Egypt
Nutrition/Biochemistry/Nutrition/Animal Science departments - review of manuscripts, review of faculty promotion and tenure dossiers
United States Department of Agriculture, Cooperative State Research Service Program Review Team - South Dakota State University,1994
Kentucky Unit Review Team, Maysville Community College, Maysville, KY, 1996
Nutrition Research Expert – Iodine Nutrient Information Pages of the American Society of Nutritional Sciences
Philip Morris Research Program

CONSULTING

Seed Restaurant Group (Fazoli's Italian Restaurant, Belle Note Italian Restaurant)
Kenny Rogers Roasters
Clark, Ward and Cave, Attorneys (Expert witness)
Poco Foods, Inc.
Bagel Bay (Freshman’s, Inc.)
SDG Foods, Inc.
Integrated Communications Corp.
Middleton and Reutlinger, Attorneys (Expert witness)

SERVICE

UNIVERSITY SERVICE:

The University of South Alabama, School of Medicine

Medical Curriculum 1973-1977
Graduate Education 1976-1977
Computer Use 1974-1977
Chair - Curriculum Evaluation 1976-1977

Schools of Medicine and Dentistry, COF/ORU

Medical curriculum 1977-1985
Chair, Medical curriculum 1981-84
Dental curriculum 1977-1979
Faculty handbook 1978
Library 1978
Dental School Accreditation 1979
Animal Experimentation and Welfare 1978-1981
Dental Academic Affairs 1981
Faculty Development 1981-1984
Institutional Self Study 1980, 1984
Graduate Program 1981-1983
Toxic Waste Disposal 1982
Dental Curriculum Evaluation 1980
Student Progress, Evaluation, Promotion, and Grading 1978-1980
Chair - Basic Science Subcommittee, Student Progress, Evaluation, Promotion, and Grading 1981-1982, 1984
Special Student Affairs 1981
University Nutrition Committee 1983
Executive Committee 1981-90
Chair, Nutrition Task Force 1985
Promotion & Tenure Task Force 1985
University Wellness Committee 1985
Computer Use Task Force 1985
Curriculum Review Task Force 1985
Tenure and Promotions 1984-88
Chair - Tenure and Promotions 1987-88
Research Task Force 1986
North Central Accreditation Task Force 1986
Chair - Search Committee, Chair, Department of Anatomy 1987
Chair - Search Committee, Chair, Department of Physiology 1987
Chair- Medical Faculty Steering Committee 1988
Search Committee - Dean, School of Medicine 1989
Institutional Review Board, *ex officio*
Institutional Animal Care, *ex officio*
Research Council, *ex officio*

University of Kentucky

Administrative Council 1990-
Mass Spectroscopy Oversight 1991-1993
Mass Spectroscopy Oversight Subcommittee 1991-1993
1991 Leadership Development Conference
Status of Women and Minorities (*ad hoc*) 1991
Chair - Safety Committee, Research Facility 1991-1993
University Research Professorship 1992
Undergraduate Council 1992-1995
Research and Graduate Studies Focus Group 1992
College of Human Environmental Sciences Advisory Board for Development 1993
Academic Area Advisory Committee for Biological Sciences 1993
Merchandising, Textiles and Design Chair search committee 1993
Healthy Kentuckians 2000 – Agricultural Extension Task Force 1993-95
Program Development Committee - Community College System 1993-95
Kentucky Community College Council 1993-95
Kentucky Community College Program Development 1993-95
Women's Health Issues - Inservice Training 1994
Chair CHES APR appeal committee 1995
Chair - Chancellor's APR merit review appeal committee 1995
Internet Committee - College of Human Environmental Sciences 1996
Search committee, chair of Family Studies
Y2K Committee

University of South Florida

President's Staff
Council of Deans
Leadership Council
Leadership Council Workgroup on Computers and Technology
Deans' Advisory Group on Academic Computing
Provost Search Committee
Chair – Dean of the Library Search Committee
Chair – Regional Deans' Inauguration Committee
University Culture Committee
Provost Search Committee
SACS Reaffirmation Executive Committee

PUBLIC SERVICE PRESENTATIONS (representative)

"A Mathematical Model for Nutritional Responses", Mobile District Dietetic Association, Mobile, Alabama, 1976

"Current Concepts in Dieting and Weight Control", Tulsa County Dental Hygienists Soc., Tulsa, Oklahoma, 1979

"Dieting Strategies", Rotary Club, Tulsa Oklahoma, 1986.

"Nutritional Support for Arthritis." Tulsa Arthritis Foundation, Tulsa, OK, 1989.

"Food Fads.", Kentucky Home Economics Association, Lexington, KY, 1991.

"Nutritional concerns of adolescents", Kentucky Association of Vocational Home Economics Teachers, Lexington, KY, 1991.

"Antioxidant Vitamins", Food and Nutrition Workshop, Inservice Training for Cooperative Extension Agents, 1993.

"Diet Aids", Food and Nutrition Workshop, Inservice Training for Cooperative Extension Agents, 1994.

University of Kentucky Press release - “Eating Disorders” 1994

Interview, Channel 18 TV, “Eating Disorders” 1994

Interview, Channel 36 TV, “Eating Disorders” 1994

Interview, National Public Radio, “Eating Disorders” 1994

"Pharmacologic properties of herbs", Food and Nutrition Workshop, Inservice for Cooperative Extension Agents, 1995.

"Weight control", Food and Nutrition Workshop, Inservice for Cooperative Extension Agents, 1996.

“Nutrition and dieting”– Lexington Lion’s Club, 1997

Interview with Wheat Foods Council, Englewood, Colorado, “American attitudes about nutrition, food consumption and high-protein/low-carbohydrate diets.”

Interview - Odyssey Magazine, 14:28-31 - Obesity in Kentucky

USF-Lakeland will influence Central Florida (Op-Ed) The Lakeland Ledger, Sept 8, 2003, p A9

Mothers Against Methamphetamines, 2004
The Value of Regional Education, (Op-Ed) The Lakeland Ledger, 8/8/04

American heart Association, 2005

Building Values, Making Choices
http://www.theledger.com/apps/pbcs.dll/article?AID=/20050125/MAGAZINE/501210327/1249
The Lakeland Magazine, Winter 2005

ADMINISTRATIVE

Vice President and Campus Executive Officer – 2001 -
Campus Dean– 1999 -2002
Department Chair - 1981-1999
Associate Dean of Basic Sciences - Biochemistry, Pharmacology, Anatomy, Microbiology, Physiology, Pathology - 1989-1990

Academic Program responsibilities (as departmental chair):
Biochemistry
Dietetics - Didactic, Coordinated Program, AP4
Food Science
Human Nutrition
Hospitality Management
Cooperative Extension
Graduate Education
Agricultural Experiment Station

PROGRAMS DEVELOPED/SUPERVISED

BIOCHEMISTRY, MEDICINE, DENTISTRY, ALLIED HEALTH, HUMAN NUTRITION, FOOD SCIENCE, HOSPITALITY AND TOURISM MANAGEMENT

Founding faculty: two medical schools, two graduate programs and one dental school:

The University of South Alabama - Mobile, Alabama - School of Medicine (1973)
COF Hospital/ORU - Tulsa, Oklahoma - Colleges of Medicine and Dentistry (1977)

Development of medical Biochemistry departments, graduate schools, nutrition programs and physical plants. Extensive experience with:

- strategic planning
- outcomes assessment, evaluation
- college/program accreditation
- site visits
- program development
- faculty development
- grantsmanship
- fund raising
- diversity

Chemistry
Chaired and developed a program for undergraduate/graduate Chemistry Department, ORU.

Dietetics

Chaired and developed approved/accredited dietetics program through the American Dietetics Association - undergraduate Plan IV and Plan V, Coordinated Program, AP4 Supervised Practice.

Food Science
Chaired and developed IFT-approved undergraduate and graduate Food Science program.

Nutrition
Chaired and developed undergraduate and graduate Biochemical Nutrition and Community Nutrition program

Hospitality Management/ Tourism
Chaired and developed undergraduate Hospitality Management program. Worked for accreditation by the Council on Hotel, Restaurant and Institutional Education (CHRIE).

Cooperative Extension Service
Chaired Extension Nutrition Specialists. Trained extension agents. Involved with EFNEP, WIC, etc.

Associate Dean - Administrated $3,500,000 budget for Basic Sciences and Central Facilities as Associate Dean for COF/ORU School of Medicine. Administrative responsibility for the departments of Biochemistry, Anatomy, Immunology and Cell Biology, Physiology, Pharmacology, Microbiology and Pathology and Laboratory Medicine.

Academic Documents written

- Faculty handbook
- Tenure and promotion guidelines
- Student evaluation guidelines
- Graduate program
- Curricula
- Budget
- Statement on scientific ethics
- Faculty assignment/evaluation
- Accreditation – program, department, college, university
- Distance education
- Administrative philosophy
- Strategic Planning

Certificate – Institute on Social Justice Education
Certificate – Certified Nutrition Specialist

ACCREDITATION EXPERIENCE:

- Southern Association of Colleges and Schools
- North Central association of Colleges and Schools
- University of Kentucky Department Evaluation
- Liaison Committee on Medical Education
- American Dental Association
- United States Department of Agriculture
- American Dietetics Association
- Institute of Food Technology
- Council on Hotel and Restaurant Education
- American Association of Family and Consumer Sciences.

DEVELOPMENT/BUILDING GRANTS

$10.8 Million – joint use facility – PCC/USF campus 2003

$15 million land donation from Williams Company for new USF-Lakeland campus

$600,000 Endowed Professorship

New primary USF Lakeland Campus (projected $220,000,000) First phase begins fall, 2005

- **INSTRUCTIONAL ACTIVITIES AND CURRICULUM DESIGN**

Medical Biochemistry, 1973-1990
Carbohydrate metabolism
Thermodynamics
Nitrogen Metabolism
Biochemistry of disease
Acid/base balance

Dental Biochemistry, 1978-1985
Same as Medical Biochemistry

Graduate Biochemistry, 1978-1990
Graduate level Biochemistry courses

Human Nutrition for Medical Students, 1978-1990
Basic Principles
Carbohydrates
Nitrogen metabolism
Faddism
Senior medical elective

Undergraduate and Nursing Biochemistry, 1973-1990
Same as Medical Biochemistry

Human Nutrition/Dietetics, Undergraduate and Graduate 1990-
Basic Principles
Carbohydrates
Nitrogen metabolism
Faddism
Senior elective
Nutrition and neurosciences
Determination of nutrient requirements
Mathematical modeling pf physiological response

Curriculum
Courses design, syllabi written and course director for all academic levels: undergraduate, graduate, professional.

Member of Medical/Dental Curriculum Committees, 1973-1985.

Chair, Medical School Curriculum Committee, 1981-1984

Wrote School of Medicine curriculum evaluation document.

Wrote Department of Biochemistry course evaluation document.

Received highest ratings for teaching by medical, dental, graduate and undergraduate students.

Worked towards an American Chemical Society approved undergraduate chemistry curriculum

Revised curriculum and programs, Department of Nutrition and Food Science

Internet course – NFS 212

Internet course – HUN 3432

Certificate Program – College of Public Health, University of South Florida

RESEARCH

INTERESTS

1.) Effects of histidine/histamine in regulation of appetite - eating disorders.

2.) Chronobiological rhythms

3.) Effects of dietary manipulation of protein and/or amino acids on serum and brain levels of amino acids, particularly precursors of neurotransmitters.

4.) Gender differences in metabolic adaptation to protein deficiency.

5.) Mathematical modeling of physiological responses, particularly in the area of responses to nutrients.

6.) Determination of nutritional requirements using mathematical modeling. Optimization of dietary mixtures.

7.) Development of a diet which will enhance recovery from protein-energy malnutrition and/or food restriction.

8.) Nutritional requirements of cells growing in culture.

9.) Effects of dietary neurotransmitter precursors on hypotensive mechanisms.

10.) Histidine/methionine metabolic relationships.

11.) Iodine deficiency

RESEARCH TRAINING IN MY LABORATORY: UNDERGRADUATE, MASTERS, DOCTORAL, MEDICAL, DENTAL AND POSTDOCTORAL (CURRENT DEGREE); COMMITTEE CHAIRMANSHIPS AND/OR MEMBERSHIPS

Albert Domm - "Prediction of Food Intakes and Growth Rates in Weanling Rats by the Four Parameter Model." (M.D.)

J. M. Epps - "Prediction of Serum Albumin Levels in Rats by the Four Parameter Model." (M.D.)

Sue Behr - "The Four-Parameter Model - A New Mathematical Approach to Drug Dose-Response Curves." (M.S.)

David Lundahl - "The Effects of Thiamine in Megadose Quantities and the Prediction of Organ Weights by the Four-Parameter Model for Nutritional Responses." (D.M.D.)

Barbara Hadley - "The Four-Parameter Model and its Effectiveness in Predicting Rat Vitamin A Responses." (M.D.)

Susan Ayres - "Effects of a Threonine Diet in Rats as Predicted by the Four-Parameter Model." (M.D.)

C. E. Geno - "A Quantitative Study of the Effects of Graded Dietary Fiber in Rats." (M.D.)

Julia Kelly - "Response of Growth Rate and Nonprotein Sulfhydryl Groups to Varied Levels of Methionine." (M.D.)

Jacqueline Rudquist - "Effects of Lysine Deficiency in the Rat." (M.S.)

Douglas Ray - "Calcium Metabolism in the Rat." (M.D.)

Greg Frye -"The Physiological Responses of Rats Fed Varied Levels of Leucine as Predicted by the Four-Parameter Model." (M.D.)

Peter L. Dornhofer - "The Physiological Responses of Rats to Varied Isoleucine Diets as Predicted by the Four-Parameter Model." (M.D.)

Sheri Dove - "Influence of Dietary Histidine Levels on Food Intake and Brain and Plasma Histidine Levels in the Weanling Rat." (B.S., D.O.)

J. M. Gustafson- "Protein Nutritional Quality: A Modeling Approach." (M.D.)

Paul T. Higbee - "Nutritional Requirements and Physiological Responses of Rats to Pyridoxine (vitamin B6)." (M.D.)

Roberts A. Hromas - "Immunosuppression Induced by a Murine RNA Tumor Virus Extracted from a Lymphosarcoma." (M.S., M.D.)

Judith M. Gifford - "Brain Growth and Free Amino Acid Patterns in Rats Fed Graded Levels of Protein." (M.S., Ph.D.)

E. Edward Geno - "Effect of Maternal Ingestion of Dietary Cholesterol on the Mineral Status of the Dam and the Offspring." (M.S., M.D.)

Robert A. Paulsen - "The Pharmacokinetics of Acute Low Dose Ethanol in Oryctolgus cuniculus Rabbit." (M.D.)

Cameron Gifford -"Effects of Varying Amino Acid and Protein Diets on Histidine Metabolism and levels in serum and brain." (M.D.)

Bryan B. Berg - "Mercury Toxicity in the Dental Lab." (D.M.D.)

Kathy Mirzabozorg Anderson - "The Physiological Responses of Rats Fed Varied Levels of Valine as Predicted by the Four-Parameter Model." (M.D.)

Leanna Johnson - "Effects of Low Protein and Supplemental Histidine on the Serum and Brain Levels of Amino Acids Over Time." (M.D.)

Paul Mabe - "Influence of Roger's and Harper's Amino Acid Mix on Weight Gain and Food Intake as Predicted by the Four-Parameter Model." (M.D.)

Ray Studer - "The Physiological Responses of Rats to Varied Phenylalanine and Tyrosine Diets as Predicted by the Four-Parameter Model." (B.S.)

Mame Starke - "Amino Acid Analysis of Ventromedial and Lateral Hypothalamus in Meal-fed Rats Using Precolumn Ortho-phthalaldehyde Derivatization and High Performance Liquid Chromatography." (M.S., M.D.)

S. Dodds - "Determination of Nutritional Requirements - A Modeling Approach." (M.D., Ph.D.)

Arthur Sieb - "Nutritional Requirements of Cells Growing in Culture." (B.S.)

R. Bret Shillingstad - "Nutritional Requirements of Cells Growing in Culture." (M.D.)

David A. Perry - "Changes in Glucose Transport in Transformed Cells." (M.S., Ph.D.)

Mark Mazzare - "Histidine and the Neuroregulation of Food Intake." (M.D.)

Reena Varghese - "Histidine and the Neuroregulation of Food Intake." (M.D.)

Michael Clark - "Metabolic effects of protein-calorie malnutrition." (M.D.)

Eva Lazarus - "Histidine and the Neuroregulation of Food Intake." (B.S.)

Timothy Yi - "Mathematical Modeling of Nutritional Responses." (M.S.)

David Olsen - "Distribution of aluminum in rats fed varying levels of calcium." (M.D.)

Steve Brubaker - "Distribution of aluminum in rats fed varying levels of calcium." (B.S.)

Hala Hijazi - "Chronobiological aspects of growth and feeding in rats." (M.S.)

D.S. Kelley - "Effects of the Histaminergic System in Eating Disorders" (Ph.D.)

Holly Bundrant - "Effects of the Histaminergic System in Eating Disorders" (Ph.D.)

Ari Padmanabhan - "Effects of the Histaminergic System in Eating Disorders" (M.S.)

Akram-ul Haq, Ph.D. - "Effects of the Histaminergic System in Eating Disorders" (post-doctoral fellow)

Amy Tiu - "Effects of the Histaminergic System in Eating Disorders", undergraduate Howard Hughes Medical research fellowship (M.D.)

Timothy Mercer - “Effects of Nicotine on the Histaminergic System", (D.M.D.)

Jennifer Lewin - "Effects of the Histaminergic System in Weight Gain", (M.S.)

Jennifer Miller - "Effects of the Histaminergic System in Weight Gain", (B.S.)

Joe Bowman – "Effects of the Histaminergic System in Weight Gain", (M.S.)

Dale Faughn - "Effects of the Histaminergic System in Weight Gain", Kentucky high school teacher

Emily Brinkmoeller - "Effects of the Histaminergic System in Weight Gain", (B.S. candidate)

Mary Ann Cheatham – “Development of a Computer Tutorial on Nutritional Assessment and Use by Three Different Groups of Health Profession Students”, (Ph.D.)

Mary Mize - "Effects of the Histaminergic System in Weight Gain", (B.S.)

Grace Darmawan - "Effects of the Histaminergic System in Weight Gain", (M.S.)

Osama Mohamed Ahmed Mohamed – “Studies on the Biochemical Effect of Some Traditional Plants on Streptozotocin diabetic Albino Rats” (Cairo University, Ph.D.)

Mahmoud Ali Mohammad – “Taurine Profiles in the Plasma of the Neonates in Relation to Gestational Age and Feeding Regimen” (Cairo University, M. Sc.)

Linda S. Gorman – “Influence of Sulfur-Amino Acids on the Ability of Endothelial Cells to Withstand Free Fatty-Acid Mediated Oxidative Stress” (Ph.D.)

Mahmoud A. Shebl Al-Badry – “Neurotoxicity of Aflatoxin in the Albino Rat” (University of Cairo, M.Sc.)

Ibrahim Al_Mohsen – “Effect of Gender on Nutritional Requirements of Nile Tilapia *Oreochromis Niloticus*” (Michigan State University, M. Sc.)

Lauri Wright – “Evaluation of Distance Learning Models for Dietetics Internship”, (Ph.D., USF)

RESEARCH SUPPORT:

1970-71 National Science Foundation Pre-doctoral Research Fellowship $5000/year.

1971-73 National Institute of Health Post-doctoral Research Fellowship, $14,000/year.

1973-75 The Biosynthesis of Riboflavin, coinvestigator with C.M. Baugh, Ph.D., National Institute of Health Grant, $54,000/year.

1975-77 A Mathematical Model for Nutritional Responses, University of South Alabama School of Medicine, $6500/year.

At the Schools of Medicine and Dentistry at COF/ORU, most research was supported through private foundation funds.

1977 Equipment grant, ORU School of Medicine Biomedical Research Foundation, $75,000.

1977-79 Determination of Nutritional Requirements, ORU School of Medicine Biomedical Research Foundation, $37,000/year.

1979-81 Control of Food Intake in the Rat, ORU School of Medicine Biomedical Research Foundation, $36,000/year.

1981-83 Optimization of a Dietary Amino Acid Mix, ORU School of Medicine Biomedical Research Foundation, $36,000/year.

1983-85 Prediction of Serum/Brain Amino Acid Relationships in the Rat, ORU School of Medicine Biomedical Research Foundation, $39,000/year.

1985-87 Methionine/Histidine Metabolic Relationships, ORU School of Medicine Biomedical Research Foundation, $39,000/year.

1987-88 Changes in Cellular Nutritional Requirements during Transformation, ORU School of Medicine Biomedical Research Foundation, $20,000.

1988-90 Determination of Nutritional Requirements: A Mathematical Modeling Approach, ORU School of Medicine Biomedical Research Foundation, $37,000/year.

1989 Equipment grant, ORU School of Medicine Biomedical Research Foundation, $50,000.

1990 Setup grant, University of Kentucky, $25,500.

1991 Histamine and the Neuroregulation of Food Intake, Biomedical Research Support Grant , University of Kentucky,$1950.

1991 Histaminergic System and Regulation of Food Intake, Graduate School, University of Kentucky, $2450.

1991 Nutritional aspects of soy bean products, Co-principal Investigator with Claudia Peck, Soy Council, $10,271.

1992-96 Studies of Diets and Lipoproteins in Humans, Co-principal Investigator with James Anderson, $2,027,179.00, NIH, Approved but not funded

1992-97 Histaminergic System and Regulation of Food Intake, Agricultural Experiment Station, University of Kentucky, $237,500. SAES Project KY00524

1993 Development of a Model System for Evaluating Methionine Requirements for Endothelial Cells, with Bernhard Hennig, Graduate School, University of Kentucky, $2000

1994-97 Histamine and the Neuroregulation of Food Intake, Principal Investigator, NIH, $267,437, Approved, not funded.

1994-1996 Histamine, Diet and Food Intake, Principal Investigator. United States Department of Agriculture, National Research Initiative Competitive Grants Program, #9400531, $110,000.

1995 Histamine and the Neuroregulation of Food Intake, Howard Hughes Summer Research Fellowship, $2500 Amy Tiu

1995 Received 2 used Beckman liquid scintillation counters from USDA - value new - $50,000. Received $5000 from Vice Chancellor for service and setup funds.

1995 Renovation of labs, Department of Nutrition and Food Science, $35,000

1996 Histamine and the Neuroregulation of Food Intake, UK Summer Research Fellowship, $2500 Amy Tiu

1996-01 Fellowship, United Nations Educational, Scientific and Cultural Organization/Third World Academy of Science Visiting Professor in Science and Sustainable Development, Department of Nutrition, National Research Center, Dokki, Egypt, International Council on Scientific Unions.

1998 Histamine and the Neuroregulation of Food Intake, Howard Hughes Summer Research Fellowship for High School Teachers, $3500 (Dale Faugn – Princeton, KY)

1998-03 Histamine and the Neuroregulation of Food Intake, USDA, SAES, Agricultural Experiment Station, University of Kentucky, $164,500. Hatch Project KY01003

1998 University of Kentucky equipment grant, $100,000.
2002 United Way – Quality of Life – Polk County $25,000

2002 Quality School Leadership Symposium – Polk Business for World Class Education $150,000

INVITED LECTURES/PRESENTATIONS (representative**):**

"Affinity Chromatography for Enzyme Purification", Southern Research Institute, Birmingham, Alabama, 1972

"The Biosynthesis of Riboflavin: Affinity Chromatography Purification of GTP Ring-opening Enzyme," 25th Southeastern Regional Meeting of the American Chemical Society, Charleston, South Carolina, 1973.

"Mathematical Modeling in Nutrition", American Chemical Society, Mobile Chapter, Mobile, Alabama, 1976.

"Is There a Conflict between Science and the Bible?", Christian Medical Society, Mobile, Alabama, 1977.

"Methods of Dietary Evaluation", ORU Dental Workshop, Tulsa, Oklahoma, 1979.

"Carbohydrates and Dental Disease", ORU Dental Workshop, Tulsa, Oklahoma, 1979.

"Vitamins and Minerals - Biochemical and Nutritional Aspects", ORU Dental Workshop, Tulsa, Oklahoma, 1979

"Appetite Control", Department of Physiology Seminar, ORU, Tulsa, Oklahoma, 1980.

"The Bible and Science", Tri Beta Honor Society, ORU, Tulsa, Oklahoma, 1980.

"Dieting, Exercise, and Weight Control", Pre-med Honor Society, ORU, Tulsa, Oklahoma, 1981.

"A New Mathematical Model for Dose-Response Relationship", Department of Pharmacology Seminar, ORU, Tulsa, Oklahoma, 1981.

"New Concepts in the Control of Obesity", Department of Family Practice Seminar, ORU, Tulsa, Oklahoma, 1982.

"Scripture, Science, and Evolution", Tri Beta Honor Society, ORU, Tulsa, Oklahoma, 1982.

"Protein Nutritional Quality: A Modeling Approach", International Association of Cereal Chemists, Budapest, Hungary, 1983.

"Nutrition Counseling for the Dental Patient--Food Fads", Cardone School of Dentistry Continuing Education Seminar, Tulsa, Oklahoma, 1983.

"The Physiologic and Nutritional Significance of Plasma-Free Amino Acid Levels", ORU Basic Science Seminar, Tulsa, Oklahoma, 1984.

"Mathematical Models in Experimental Nutrition," University of Georgia, Symposium on Mathematical Modeling and Nutrition, Athens, Georgia, 1985.

"Determination of Nutritional Requirements," University of South Alabama School of Medicine, Mobile, Alabama, 1985.

"Nutrition Faddism: An Epidemic of the 1980's", City of Faith Continuing Medical Education Symposium, Tulsa, Oklahoma, 1986.

"Effect of Dietary Supplementation with Methionine, Serine and Glycine on Serum and Brain Histidine Concentrations in Protein-Deficient Rats", Symposium on Advances in Clinical Nutrition, American College of Nutrition, Washington, DC, 1986.

"The Determination of Nutritional Requirements: A Mathematical Modeling Approach", Sixth International Conference on Mathematical Modeling, St. Louis, Missouri, 1987.

"The Relationship between Brain Histidine Concentrations and Food Intake in Rats Fed Single Amino Acid-deficient Diets." Symposium on Nutrition and CNS Function, Federated American Societies of Experimental Biology, Las Vegas, Nevada, 1988.

"MathCAD Used for Physiological Response Tracking." *MathSoft User's Journal*, 3:4-5, 1989.

"Saturation Kinetics: A Mathematical Model for Physiological Responses." Oklahoma Society of Physiologists, Tulsa, OK, 1989.

"Protein Energy Malnutrition and Amino Acid Deficiencies Result in Thr, His, and Trp Imbalances; Reviewed in Relation to Cell Stress Signals, Translation and Brain and Serum Amino Acid Levels." S. J. Dodds, and L. Preston Mercer, M.S.T.P., M.D./Ph.D., Student Conference, Aspen, Co, 1989.

"Histamine and the Neuroregulation of Food Intake.", The University of Kentucky, Department of Nutrition and Food Science, 1990.

"Mathematical Modeling of Physiological Responses", The University of Kentucky, Center for Toxicology, 1990.

"Food for the Ninety's", 47th Annual Meeting, Kentucky Feed and Grain Association, Louisville, KY, 1991.

"Application of Models to the Determination of Nutrient Requirements.", FASEB Symposium, Atlanta, Georgia, 1991. (Co-chair and speaker)

"Determination of Nutrient Requirements" College of Agriculture, The University of Kentucky, 1992.

"Nutrition Research in the Quick Service Segment", Council on Hotel, Restaurant and Institutional Education, 1993.

"Chronobiological Rhythms in the Central Nervous System", Mathematical Modeling in Experimental Nutrition V, Indiana University, Purdue University, 1994

"Is There a Conflict between Science and the Bible?", Christian Medical and Dental Society, University of Kentucky, 1994

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