

# Herschel Wayne Sampson

## Professor

**EDUCATION:** W.H. Adamson - Diploma 1962  
Arlington State College - B.S. 1967  
Baylor University - Ph.D. 1970

**POSITIONS:** Visiting Scientist- Mayo Clinic-1998 --- Lab of Dr. Russell Turner  
Texas A&M University College of Medicine, 1979-  
Professor - 1993  
Associate Professor (tenured), 1983  
Assistant Professor of Anatomy, 1979  
Gross Anatomy, Course Coordinator; 1980 - present  
Histology - Bone and Cartilage Lectures, 1991-1993  
Pathology - Non-Neoplastic Bone Disease Lecture, 1993  
Texas A&M University Graduate Faculty, 1980-  
Graduate Faculty of Nutrition (Charter member), 1988-  
Coordinator-Med. Electron Microscope Facility, '82-94  
Texas A&M University System Health Science Center Graduate School of  
Biomedical Sciences, 1999-  
Oral Roberts University, Schools of Medicine and Dentistry, 1977-1978  
Associate Professor of Anatomy  
Gross Anatomy - Medical and Dental, (Dental Course Director)  
Baylor College of Dentistry  
Associate Professor of Anatomy, 1976-1977 (tenured)  
Assistant Professor of Anatomy, 1972-1976  
Gross Anatomy Lab. Director  
Graduate Faculty, Baylor University  
Dallas Bible College, 1975-1979  
Adjunct Professor of Biology and Physical Science,  
Creighton University School of Medicine, 1970-1972  
Assistant Professor of Anatomy, Gross Anatomy,  
Histology, Neuroanatomy Lab.

**RECOGNITION  
AND AWARDS:**

Best Course- 2001  
 Best Class 2000  
 Gross Anatomy-Best Department 1998-1999  
 Best Department / Class 1995  
 Best Lecturer Award 1994-1995 TAMU College of Medicine  
 Best Department 1994  
 EMT Teaching Appreciation Award  
 Outstanding Department 1993  
 Outstanding Department 1992  
 Best Department 1990  
 Favorite Department 1988-1989  
 Best Department 1983-1984  
 N.D.E.A. Fellowship  
 Who's Who in America  
 Who's Who in the South and Southwest  
 Who's Who in Frontier Science and Technology  
 Who's Who in American Education  
 Who's Who in Science and Engineering  
 Who's Who in Medicine and Healthcare  
 American Men and Women of Science, 18th ed.  
 Men and Women of Science  
 Notable Men and Women of the Bicentennial  
 Men of Achievement, 11th Ed., 13th ed.  
 The International Directory of Distinguished Leadership  
 Directory of Distinguished Americans, 5th ed.  
 Directory of International Biography  
 Personalities of the Americas  
 Personalities of the South  
 America's Registry of Outstanding Professionals  
 Strathmore's Who's Who

**GRADUATE AND  
NONMEDICAL  
COURSE  
PARTICIPATION**

Techniques in Electron microscopy, MANA 985  
 Ultrastructural Interpretation  
 Advanced Gross Anatomy of the Extremities 521; Trunk 522  
 Head and Neck anatomy for graduate Students 433  
 History of Science 431  
 Principles of Basic Medical Sciences 601-602; Sect. 3  
     From Cells to Multicellular Organisms  
 Biomineralization, MANA 640 (6-hr lecture on histology  
     and pathology of bone)  
 Industrial Engineering 689 (3-hr lecture on musculoskeletal system)  
 Emergency Medical Techniques 319 (9 hrs per semester, 2 semesters per year)  
 Five credit Continuing Education course for Physical Therapist dealing with the  
     shoulder - 1990  
 Special Topics in Laboratory Safety and Ethics MS 689 (2 credit hr)  
 Seminar in Osteoporosis MANA 681 (2 credit hr)  
 Osteoporosis And Bone Biology MANA 642  
 Graduate Seminar Class NUTR 681-602

**SPECIAL  
TRAINING:**

Trained in use and maintenance of Hitachi, RCA, Philips  
and JEOL Transmission and Scanning Electron Microscopes

Experienced in Atomic Absorption Spectrophotometry,  
Energy Dispersive X-ray Microanalysis and Electron  
Energy Loss Spectrometry

Experienced in all phases of tissue preparation for  
electron microscopy including cryoultramicrotomy

Skilled in cadaver preparation

Electron Microscope Course, Duke Marine Biology Lab., 1977

Radiological Safety Short Course, Texas A&M, 1980

Association of American Medical Colleges Admission,  
Retention and Financing Programs for Minority Students, UTMS  
San Antonio, 1983

**PROFESSIONAL  
SOCIETIES:**

- American Association of Anatomy, 1971-  
Nominated for 2ed Vice-President- 1998  
Educational Affairs Committee – 1999
- American Association of Clinical Anatomists, 1984-
- Pan American Association of Anatomy, 1972-
- Southern Society of Anatomists, 1972-
- Electron Microscope Society of America, 1973-
- Texas Society for Electron Microscopy, 1968-  
Local Arrangements Chairman, 1984  
Program Chairman, 1985  
Secretary, 1986-1988  
President-elect, 1988-1989  
President, 1989-1990  
Immediate Past President, 1990-1991
- American Institute of Nutrition, 1978-1984, 1990-
- American Physiological Society, 1985-
- Federation of American Societies for Experimental Biology,  
1978-  
American Society for Bone & Mineral Research, 1984-
- International Conferences on Calcium Regulating Hormones,  
Inc., (International Bone and Mineral Society), 1986-
- Texas Mineralized Tissue Society (charter member), 1989-
- Research Society on Alcoholism, 1995-
- Texas Research Society on Alcoholism, 1995-  
Regional Newsletter Editor
- International Society for Biomedical Research on Alcoholism, 1997-
- The Endocrine Society, 1997-
- International Society of Musculoskeletal and Neuronal Interactions, 1999

**COMMITTEES:****BAYLOR**

Dental Science II AD HOC Curriculum Review Committee, 1974  
 Research, Human Resources and Biohazards Committees, 1976-1977  
 Freshman Advisory Committee, 1975-1976  
 Baylor University Graduate Faculty, 1972-1977  
 AD HOC Committee on Biomedical Research Development Grant Program, 1976

**ORU**

Animal Care Committee, 1976-1977  
 Medical Curriculum Committee, 1977  
 Dental Curriculum Committee, 1977

**TEXAS A&M****University Committees**

Faculty Search Committee, Veterinary Anatomy, 1987  
 Nominating committee -- Graduate Faculty of Nutrition, 1989  
 University Grievance Committee, 1993  
 University Laboratory Animal Care Committee, 1990-94  
 University Electron Microscope User Committee, 1991-94  
 AD HOC Planning Committee for a special seminar series on "The Future of Nutrition" for Nutrition Faculty, 1995  
 Interdisciplinary Research Initiative grant review panel, 1997

**Health Science Center Committees**

Tenure and Promotions Committee – 2001-  
 Faculty Senate – 2003-

**College of Medicine Committees**

Curriculum subcommittee for Year I CRIC- 2003  
 Curriculum subcommittee for First Year Curriculum Review 2001  
 Subcommittee for Curriculum Objectives for Year 3, 1999  
 Search Committee for Vice President and Dean of Medicine, 1995-1996  
 Conference Committee to resolve administrative differences between C.S. and Temple Tenure and Promotions Committee, 1995-1996  
 Medical Sciences Library Council, 1992-5  
 Faculty Tenure and Promotions Committee, 1987-1992, 1993-2000, 2003-  
 Departmental faculty review committee 1997-  
 Departmental education committee 1997-  
 Student Promotions Committee (Chairman 1994), 1993-  
 Appeals Committee for Student Promotions (Chairman), 1995, 1996  
 Radiology Chair Search Committee, Scott & White, Temple 1993, 1995  
 College of Medicine Electron Microscope Committee, 1980-1994  
 (Chairman and Coordinator of Facility)  
 AD HOC Committee for review of Council for Tobacco Research Grant, 1993  
 Biomedical Research Support Grants Review Committee, 1981-1994  
 Admissions Committee (Guest Interviewer), 1979-1982  
 Admissions Committee, 1982-1985, 1989-1992  
 Minority Recruitment Subcommittee, 1983  
 Scholarship Subcommittee, 1983  
 Faculty Advisory Committee, (Academic Council) 1987-1992  
 Minority Summer Fellowship Committee, 1983  
 AD HOC Committee on Evaluation of Medical Students, 1987

Task Force for an Office of Education, 1988-1989

**JOURNAL AND GRANT REFEREE:**

**GRANT**

Reviewed grants and attended NIAMS study section ZAR1 RJB-E 01R Aug 2003

Reviewed grants and attended NIAAA study section ALTOX-1 June 2000

VA grant review –2000

NSF 1988-1993 Large equipment grants relative to cryosectioning and electron microscopy

**JOURNAL**

Alcohol and Alcoholism

Alcohol Research & Health

Alcoholism: Clinical and Experimental Research

Anatomical Record

Archives of Biochemistry and Biophysics

Biochemical Pharmacology

Bone

Clinical Anatomy

Journal of Bone and Mineral Research

Journal of Laboratory and Clinical Medicine

Journal of Pharmacology and Experimental Therapeutics

Journal of Vascular Research

Journal of Zoology

Molecular and Cellular Pharmacology

Protoplasma

Stain Technology

The Journal of Histochemistry and Cytochemistry

The Journal of Nutrition

Tissue and Cell

TSEM Journal (Regional Editor)

**CONSULTANTSHIPS:**

Texas A&M Emergency Medical Tech. 1980 - 1994

EMT Special Skills 1982 - 1993

Various Fireman and Police First Aid Anatomy Sessions

Dr. Mike Moriarty, University of Nebraska Medical Center,

Department of Physiology. Consulted on a project concerned with calcium localization at the electron microscope level. 1980

Northern Natural Gas Co. 1970 - 1971

Electron microscopy shadow-casting of railroad rails.

Lynnntech, Inc. 1995

A Bio-Electrical, Stress-Responsive Composite Coating for Prostheses. Histology and Electron microscopy.

**COMMUNITY SERVICE:**

Big Brothers of Nebraska, 1970-1972  
 Board of Directors of:  
   Dallas Bible College, 1979-1983  
   Brazos Valley Rehabilitation Center, 1979-1985  
     Secretary, 1982-1985  
     Program committee, 1981-1985 (Chairman, 1984-1985)  
 Greenville Christian School  
   Educational Policy and Curriculum Committee, 1976-1977  
   Faculty-Staff Relations Committee, 1979  
 Baptist Student Center Advisory Committee, 1979-1980  
 Faculty Advisor Baptist Student Center (A&M), 1979-1980  
 Texas A&M University Mentors (Student Counseling), 1981-  
   Ordained Deacon, Christ's Way Baptist Church 2000-  
     Chairman of Deacons 2000-  
     Building Committee  
     Missions Committee  
 Northview Baptist Church, 1995-2000  
 Central Baptist Church (SBC), 1984-1995  
   Chairman of Deacons, 1994-1995  
   Vice-Chairman, 1989-1991  
   Chairman of Deacon Ministries Committees, 1989-1994  
 Brazos Valley Regional Science and Engineering Fair Life Sciences     Judge, 1987-  
 Brazos Food Bank (Volunteer), 1988  
 VITA - Volunteer Income Tax Assistance Program, 1992-1994  
 Faculty Advisor- A&M Chess Club  
 Founder- Bryan Chess Club

**STATE COMMITTEE:**

Anatomical Board of the State of Texas  
   Secretary-Treasurer (Executive Secretary), 1974-1977; 2001- 2003  
   Texas A&M Representative Member, 1990-  
   Anatomy Facility Inspection Committee, 1990 - 2002  
 Vice-Chair - 1997 – 2001  
 Interim Chairman- 2000-2001  
 Chairman - 2001

<b>GRADUATE STUDENT COMMITTEE MEMBER:</b>	Jack F. O'Malley, Ph.D.	Creighton	Anatomy
	Mary C. Schunder, Ph.D.	Baylor	Anatomy
	Ginger W. Miller, Ph.D.	Baylor	Anatomy
	Joan Felix Chang, Ph.D.	Texas A&M	Entomology
	Geoffrey Matongo Kapatsa	Texas A&M	Entomology
	Theresa Rowles, Ph.D.	Texas A&M	Vet. Anatomy
	*Nancy King, Ph.D.	Texas A&M	Nutrition
	*Mark Chambers, D.V.M., Ph.D.	Texas A&M	Vet. Nuclear Med.
	Xiaoqing Chen, M.S.	Texas A&M	Nutrition
	Robert D. Welch, D.V.M., Ph.D.	Texas A&M	Vet. Surgery
	*Jan Leiko Miyasato, M.S.	Texas A&M	Nutrition
	*Cindy D. Yee, M.S.	Texas A&M	Nutrition
	Deborah Lee Noel, Ph.D.	Texas A&M	Nutrition
	Ronald W. Davis, Ph.D.	Texas A&M	Horticulture
	Anne Zuzarte de Mendonca, M.S.	Texas A&M	Nuclear Eng.
	John K. Hubbard, Ph.D.	Texas A&M	Kinesiology
	Samantha J. Wright, Ph.D.	Texas A&M	Indust. Eng.
	Kate Deisseroth, M.S.	Texas A&M	Mech. Eng.
	Robert A. Parry, M.S.	Texas A&M	Nuclear Eng.
	*Nancy Perks, M.S.	Texas A&M	Nutrition
	*Catherine Chaffin, M.S.	Texas A&M	Nutrition
	*Sharon Gallagher, M.S.	Texas A&M	Nutrition
	*Debra Shipley, M.S.	Texas A&M	Nutrition
	Donald A. Halter, M.S.	Texas A&M	Nuclear Eng.
	*Lisa Chapman, M.S.	Texas A&M	Nutrition
	Maximo Rodriguez, Ph.D.	Texas A&M	Education
	Jennifer Groves, M.S.	Texas A&M	Mechanical Engineering
	Sean Ruhmann, M.S.	Texas A&M	Mechanical Engineering
	*Valerie A. Hebert, M.S.	Texas A&M	Nutrition
	*Holli L. Booe, M.S.	Texas A&M	Nutrition
	*Heather Spears, M.S.	Texas A&M	Nutrition
*Dawn Blaschke, M.S.	Texas A&M	Nutrition	
*Lisa Barker, MS	Texas A&M	Nutrition	
*Julie Bowlin, MS	Texas A&M	Nutrition	
*Florielez Argueta, MS	Texas A&M	Nutrition	
*Atha Louise Moe, MS	Texas A&M	Nutrition	
Barry Nelson, Ph.D.	Texas A&M	Educational Administration	
*Christine Schulte, MS	Texas A&M	Nutrition	
Gretchin Geye, Ph.D.	Texas A&M	Curriculum & Instruction	
*Mou Dasgupta, MS	Texas A&M	Nutrition	
Alicia Currado, M.S.	Texas A&M	Nutrition	
Kevin Real, Ph.D.	Texas A&M	Speech Communications	
Valerie Henderson	Texas A&M	Nutrition	

\*Graduate students who have conducted thesis research in my laboratory with my supervision

**Undergraduate students supervised for independent research projects for 485 credit or University Honors Program:**

Richard Chamblin (Biology)	1981	1 semester
Lisa Barker (Biology)	1986	2 semesters
Ernie Layton, Jr. (Biology)	1986	1 semester
Gilmore Richardson (Biochem)	1988	2 semesters
Whitney Chondra	1995	1 semester
Katie Tumbusch	1995	1 semester
Julie Speed	1995	1 semester
Courtney Marburger	1995	1 semester
Chris Bradbury	1995	1 semester
David New	2001	1 semester

**Medical students supervised for summer research:**

Maria Milian	1983
Philip Sclussman	1983
John Strayhorn	1984
James Johnson	1995
Jason Lange	1996

**High school minority enrichment program:**

Ana Maria Montalvo	1982
David Villarreal	1983
Emma Reading	1987
Jay McIlveen	1988

**Postdoctoral Students and Visiting Faculty:**

Maj. Siripim Sukarasorn	Pramongkutklo College of Medicine Bangkok, Thailand
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## PUBLICATIONS

1. Dissertation: An Electron Microscope Investigation of Calcium and Phosphate in the Intestinal Epithelium of Rachitic, Normal and Vitamin-D-treated Rats (1970).
2. Matthews JL, JH Martin, **HW Sampson**, A Kunin and JH Roan, Mitochondrial Granules in the Normal and Rachitic Rat Epiphysis. *Calc. Tiss. Res.* 5:91-99 (1970).
3. **Sampson HW**, JL Matthews, JH Martin and AS Kunin. An Electron Microscopic Localization of Calcium in the Small Intestine of Normal, Rachitic and Vitamin-D-Treated Rats. *Calc. Tiss. Res.* 5:305-316 (1970).
4. **Sampson HW**, RE Dill, JL Matthews and JH Martin. An Ultrastructural Investigation of Calcium-Dependent Granules in the Rat Neuropil. *Brain Res.* 22:157-162 (1970).
5. **Sampson HW** and JL Matthews. Electron Microscope Autoradiographic Investigation of <sup>33</sup>p in the Intestinal Epithelium of Rachitic, Normal and Vitamin-D-Treated Rats. *Calc. Tiss. Res.* 10:58-66 (1972).
6. Krawitt EL, **HW Sampson**, AS Kunin and JL Matthews. Effect of Ethane-1-hydroxy-1,1-diphosphonate (EHDP) Administration on Duodenal Calcium Transport. *Calc. Tiss. Res.* 15:21-29 (1974).
7. Krawitt EL, **HW Sampson** and C Katagiri. Effect of 1,25-Dihydroxycholecalciferol on Ethanol Mediated Suppression of Calcium Absorption. *Calc. Tiss. Res.* 18:119-124 (1975).
8. **Sampson HW** and EL Krawitt. A Morphometric Investigation of Duodenal Mucosa of Normal, Vitamin D-Deficient, and Vitamin D Replete Rats. *Calc. Tiss. Res.* 21:213-218 (1976).
9. Krawitt EL, AS Kunin, **HW Sampson** and BF Bacon. Effect of Hypophysectomy on Calcium Transport by Rat Duodenum. *Am. J. Physiol.* 232:E229-E233 (1977).
10. **Sampson HW**, JL Matthews and I Piscopo. Parietal Cell Calcium Reservoirs and Acid Secretion. *Mineral Electrolyte Metab.* 3:66-73 (1980).
11. Leuschen MP, CM Moriarty, **HW Sampson** and I Piscopo. Cytochemical Analysis of Intracellular Calcium Distribution in the Anterior Pituitary of the Rat. *Cell Tiss. Res.* 220:191-200 (1981).
12. **Sampson HW** and DE Bowers. Intracellular Calcium Localization in Stimulated and Non-Stimulated Eccrine Sweat Glands. *J. Anat.* 135:565-575 (1982.)
13. **Sampson HW**, DE Bowers, MS Cannon and I Piscopo. Intracellular Calcium Localization in Stimulated and Non-Stimulated Extraorbital Lacrimal Glands of Rats. *Tiss. Cell.* 14:735-749 (1982).
14. **Sampson HW**. Increased Mitochondrial Size During Cholinergic Induced Exocrine Gland Secretion. *Cell. Biol. int. Reports* 6:981 (1982).
15. Leuschen MP, CM Moriarty and **HW Sampson**. Calcium Movements and Intracellular Calcium Distribution in Neoplastic GH3 Cells. *Histochem.* 77:85-97 (1983).

16. Cannon MS, **HW Sampson**, ED Kapes, AM Cannon. General Purpose, Rapid Reliable Stain for Plastic-Embedded Tissue Sections. *Lab. Med.* 14:363-365 (1983).
17. **Sampson HW**, DE Bowers and I Piscopo. Calcium and Parotid Secretion: A Cytochemical Study. *J. Anat.* 136:573-583 (1983).
18. **Sampson H Wayne** and Ana Maria Montalvo. Association of Mitochondria with the Plasma Membrane of the Acinar Cells of Actively Secreting and Nonsecreting Rat Lacrimal and Parotid Glands. *Acta Anat.* 116:353-357 (1983).
19. **Sampson HW**, DJ Kiessel, L MacKenzie-Graham and I Piscopo. A Cytochemical Study of the Effect of Cholinergic and  $\beta$ -Adrenergic Stimulation on Calcium Fluxes of the Rat Parotid Gland. *Histochem.* 79:193-203 (1983).
20. Bowers DE, DH Jones, **HW Sampson**, MK Dunlap. Acute Exposure to Hymenoxon: Electron Microscopic Study of the Mouse Liver. *Am. J. Vet. Res.* 45:383-386 (1984).
21. Cocke WM, R White, T Vecchione and **HW Sampson**. Calcified Capsules Following Augmentation Mammoplasty. *Ann. Plastic Surg.* 15:61-65 (1985).
22. Trulson ME and **HW Sampson**. Ultrastructural Changes of the Liver Following L-Tryptophan Ingestion in Rats. *J. Nutrition* 116:1109-1115 (1986).
23. Cocke WM Jr and **HW Sampson**. Capsule calcification following mammoplasty: A survey. *Ann. Plastic Surg.* 16:541 (1986).
24. **Sampson HW** and MS Cannon. Zonal Analysis of Metabolic Profiles of Articular-Epiphyseal Cartilage Chondrocytes: A Histochemical Study. *Histochem. J.* 18:233-238(1986).
25. Cannon MS, **HW Sampson** and ME Trulson. Demonstration of Glycogen in Neutrophils using a PAS-Dimedone Technique. *Lab. Med.* 18:35-36 (1987).
26. Weldon PJ and **HW Sampson**. Paracloacal glands of Alligator mississippiensis: A histological and histochemical study. *J. Zool.* 212:109-115 (1987).
27. Cocke WM and **HW Sampson**. Silicon Bleed Associated with Double-Lumen Breast Prosthesis. *Ann. Plastic Surg.* 18:524-526 (1987).
28. **Sampson HW**, MS Cannon and RW Davis. The calcified amorphous layer of the skin of *Bufo marinus* (Amphibia: Anura). *J. Zool.* 213:63-69 (1987).
29. Cannon MS, **HW Sampson** and ED Kapes. The Blood Leukocytes of *Bufo marinus*: A Light, Phase-contrast, and Histochemical Study. *Can. J. Zool.* 65:1445-1453 (1987).
30. Cocke WM Jr, **HW Sampson** and JM Quarles. Observations of Cell Function and Morphology in the Presence of Silicone Gel: An *In Vitro* Study. *Ann. Plastic Surg.* 19:406-408 (1987).
31. Weldon PJ and **HW Sampson**. The Gular Glands of *Alligator mississippiensis*. Histology and Preliminary Analysis of Lipoidal Secretions. *Copeia* (1):80-86 (1988).

32. Cannon MS, **HW Sampson**, ED Kapes and JB Gelderd. Cytochemistry of the Blood Basophil of *Bufo marinus*. *J. Herpetology* 22:389-393 (1988).
33. Rieke GK, **HW Sampson**, AD Scarfe and DE Bowers. The toxin kainic acid: A study of avian nerve and glial cell response utilizing tritiated kainic acid and electron microscopic autoradiography. *Acta Neuropath.* 76:185-203 (1988).
34. **Sampson HW**. Spondyloarthropathy in Progressive Ankylosis (ank/ank) Mice: Morphological Features. *Spine* 13:645-649(1988).
35. **Sampson HW** and J Davis. Histopathology of the Intervertebral Disk of Progressive Ankylosis Mice. *Spine* 13:650-654(1988).
36. **Sampson HW**. Ultrastructure of the Mineralizing Metacarpophalangeal Joint of Progressive Ankylosis (ank/ank) Mice. *Am. J. Anat.* 182:257-269(1988).
37. **Sampson HW** and JP Trzeciakowski. Intervertebral Disk Mineralization in Progressive Ankylosis Mice. *Bone and Mineral*, 10:71-77(1990).
38. Gelderd JB and **HW Sampson**. Tissue Calcium Levels following Spinal Cord Transection in Rats. *Acta Neurobiol. Exp.*, 50:601-608 (1990).
39. Weldon PH, **HW Sampson**, L Wong and HA Lloyd. Histology and Biochemistry of the Scent Glands of the Yellow Bellied Sea Snake (*Pelamis platurus*, *Hydrophiidae*). *J. Herpetology* 25:367-370 (1991).
40. **Sampson HW**, RW Davis and DC Dufner. Spondyloarthropathy in Progressive Ankylosis Mice: Ultrastructural Features of the Intervertebral Disk. *Acta Anatomica* 141:36-41 (1991).
41. King N, TW Odom, **HW Sampson** and SL Pardue. *In Ovo* Administration of Boron Alters Bone Mineralization of the Chicken Embryo. *J. Trace Element Res.* 30:47-58 (1991).
42. King N, TW Odom, **HW Sampson** and AG Yersin. The Effect of *In Ovo* Boron Supplementation on Bone Mineralization of the Vitamin-D-Deficient Chicken Embryo. *Biol. Trace Element Res.* 31:223-234 (1991).
43. King N, TW Odom, **HW Sampson** and SL Pardue. *In Ovo* Administration of Boron or Sodium Aluminosilicate alters Mineralization in the Turkey. *Nutrition Res.* 13:77-85 (1993).
44. Yee C, KS Kubena, M Walker, T Champney, **HW Sampson**. The Relationship of Nutritional Copper to the Development of Postmenopausal Osteoporosis in the Rat. *Biol. Trace Element Res.* 48:1-11 (1995)
45. Champney T, GC McCord, **HW Sampson**. Rotation of Dissecting Groups Among Different Cadavers Provides Students of Anatomy with Increased Opportunity to Observe Human Variations. *Clin. Anat.* 8:412-413 (1995).
46. **Sampson HW**, N Perks, TH Champney, B DeFee II. Alcohol Consumption Inhibits Bone Growth and Development in Young Actively Growing Rats. *Alcohol Clin. Exp. Res.* 20:1375-1384 (1996).

47. **Sampson HW**, C Chaffin, J Lange, B DeFee II. Alcohol Consumption by Young Actively Growing Rats. A Histomorphometric Study of Cancellous Bone. *Alcohol Clin. Exp. Res.* 21:352-359 (1997).
48. **Sampson HW**. Alcohol, Osteoporosis and Bone Regulating Hormones. *Alcohol Clin. Exp. Res.* 21:400-403(1997)
49. Hogan HA, **HW Sampson**, E Cashier, N. Ledoux. Alcohol Consumption by Young Actively Growing Rats: A Study of Cortical Bone Histomorphometry and Mechanical Properties. *Alcohol Clin. Exp. Res* 21:809-816 (1997).
50. **Sampson, HW**, D. Shipley. Moderate Alcohol Consumption Does Not Augment Bone Density in Ovariectomized Rats. *Alcohol Clin. Exp. Res* 21:1165-1168 (1997).
51. Hubbard, JK, **HW Sampson**, JW Elledge. Prevalence and Morphology of the Vastus Medialis Oblique Muscle in Human Cadavers. *Anat. Rec.* 249:135-142 (1997).
52. Dyer SA, **HW Sampson**. Magnesium Levels In Alcohol Treated Rodents Using Different Consumption Paradigms. *ALCOHOL* 16:195-199 (1998).
53. Dyer SA, P Buckendahl, **HW Sampson**. Alcohol Consumption Inhibits Osteoblastic Cell Proliferation and Activity In Vivo. *ALCOHOL* 16:337-341 (1998).
54. **HW Sampson**, VA Hebert, HL Booe, TH Champney. The Effect of Alcohol Consumption on Adult and Aged Bone: Composition, Morphology and Hormone Levels of a Rat Animal Model. *Alcohol Clin. Exp. Res.* 22:1746-1753 (1998).
55. **HW Sampson**. The Effect of Alcohol Consumption on Adult and Aged Bone: A Histomorphometric Study of the Rat Animal Model. *Alcohol Clin. Exp. Res.* 22:2029-2034(1998).
56. Hubbard, JK, **HW Sampson**, JW Elledge. The Vastus Medialis Oblique Muscle and its Relationship to Patellofemoral Joint Deterioration in Human Cadavers. *JOSPT* 28:384-391(1998).
57. **HW Sampson**, Alcohol's Harmful Effects on Bone. *Alcohol World* 22:190-194 (1998).
58. **HW Sampson**, Heather Spears. Osteopenia Due to Chronic Alcohol Consumption by Young Actively Growing Rats is Not Completely Reversible. *Alcohol Clin. Exp. Res.* 23:324-327 (1999).
59. **HW Sampson**, S Gallager, J Lange, W Chondra, HA Hogan. Binge Drinking and Bone Metabolism in a Young Actively Growing Rat Model. *Alcohol Clin. Exp. Res.* 23:1228-12331 (1999).
60. Patridge, CR, **HW Sampson**, R Forough. Long-Term Alcohol Consumption Increases Matrix Metalloproteinase-2 Activity in Rat Aorta. *Life Sci.* 65:1395-1402 (1999).
61. Hogan, HA, JA Groves, **HW Sampson**. Long-Term Alcohol Consumption in the Rat Affects Femur Cross-Sectional Geometry and Bone Tissue Material Properties. *Alcohol Clin. Exp. Res.* 23:1825-1833 (1999).
62. Hogan, HA, SP Ruhmann, **HW Sampson**. The Mechanical Properties of Cancellous Bone in the Proximal Tibia of Ovariectomized Rats. *J. Bone Miner. Res.* 15:284-292 (2000).

63. Hogan, HA, F Argueta, L Moe, LP Nguyen, **HW Sampson**. Adult- Onset Alcohol Consumption Induces Osteopenia in Female Rats. *Alcohol Clin. Exp. Res.* 25:746-754(2001).
64. **H. Wayne Sampson**. Alcohol and Other Risk Factors for Osteoporosis. *Alcohol Research & Health.* 26: 292-298 (2002)
65. **H. Wayne Sampson**, Harry A Hogan. The Harmful Effects of Late-Onset Alcohol Consumption on Aged Bone. *ALCOHOL* (submitted)

## **BOOKS AND MANUALS**

**Sampson HW**. *A Manual of Human Dissection* (prepared expressly for use at Baylor College of Dentistry), pp. 1-116 (1975-1977).

**Sampson HW**. *Anatomical Board of the State of Texas Procedure Manual*, pp. 1-208 (1991).

H Wayne Sampson, John L. Montgomery and Gary L. Henryson. *Atlas of the Human Skull*. Texas A&M University Press, College Station, Texas, pp. 1-208 (1991).

**Sampson HW**. *A Manual of Human Dissection* (prepared expressly for use at Texas A&M College of Medicine), pp. 1-148 (1991), (1992), (1993),(1994),(1995), (1996), (1997), (1998), (1999), (2000), (2001), (2002), (2003).

## ABSTRACTS AND PRESENTATIONS

1. **Sampson HW**, JL Matthews and A Kunin. Electron Microscopic Localization of Calcium in the Small Intestine of Normal and Rachitic Rats. *The Anatomical Record*, 163:225 (1969).
2. **Sampson HW** and RE Dill. An Electron Microscopic Demonstration of Calcium Dependent Granules in the Rodent Neuropil. *The Anatomical Record*, 166:371 (1970).
3. **Sampson HW** and JL Matthews. Localization of P<sup>33</sup> in the Intestinal Epithelium of Rats. *The Anatomical Record*, 169:417 (1971).
4. "Gross Anatomy Alive," Demonstration presented at the 43rd Annual Dallas Mid-Winter Dental Clinic.
5. Gordon Research Conference (Chemistry, Physiology and Structure of Bones and Teeth, 1973).
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11. Bowers DE, **HW Sampson** and GK Rieke. Ultrastructural Changes in the Kidney and Liver of Hypertensive Aged Rats--A Preliminary Report. *Anat. Rec.*, 199:34A (1981).
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13. Leuschen MP, CM Moriarty and **HW Sampson**. Cytochemical Analysis of Calcium in Normal and Neoplastic Rat Pituitary Cells. *J. Cell Biol.* 91:A398 (1981).
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17. **Sampson HW** and ME Trulson. Regional Distribution of Calcium in the Rat Brain. *Soc. Neurosci. Abstr.*, 11:377 (1985).
18. Trulson ME and **HW Sampson**. Ultrastructural Changes of the Liver Following L-Tryptophan Ingestion. *TSEMJ*, 16:33 (1985).
19. Chaired scientific session, Fall meeting, Texas Society for Electron Microscopy. Houston, TX 1986.
20. Trulson ME and **HW Sampson**. Reply to the Letters of Dr. Hartmann and of Drs. Pollack and Kravitz. *J. Nutrition*, (letter) 117:1317-1318 (1987).
21. **Sampson HW**. Progressive Ankylosis Mice: An Experimental model for ankylosing spondyloarthropathies. Presented at the Annual Staff Conference of The Texas Agricultural Experiment Station. (1988).
22. **Sampson HW**. Ultrastructure of the Mineralizing Metacarpophalangeal Joint of Progressive Ankylosis Mice. *TSEMJ*, 19:45. Presented at Dallas TSEM meeting, March 1988.
23. **Sampson HW** and JS Davis. Mineralization of the Intervertebral Disk of Progressive Ankylosis Mice. *J. Bone Mineral Res.*, 3:S135 (1988).
24. **Sampson HW**. Intervertebral Disk Mineralization in the Progressive Ankylosis Mouse: An Ultrastructure Study. *TSEMJ*, 19:21 (1988).
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26. **Sampson HW**. Progressive Ankylosis Mice: A Murine Model for Calcium Hydroxyapatite Crystal Deposition Disease. *Arthritis Rheum.*, 32:S35 (1989).
27. **Sampson HW**, 1989. Progressive Ankylosis Mice: A Murine Model for Mineralization Studies? (Presented at the Texas Mineralized Tissues Society, April 1989).
28. Pardue SL, TW Odom, N King and **HW Sampson**, 1989. Influence of *In ovo* Boron Administration of Embryonic and Neonatal Development of the Chicken and Turkey. (Presented at A.N.E.C.A., Mexico, April 1989).
29. **Sampson HW**. Calcium and Phosphorus levels in the intervertebral disks of Progressive Ankylosis Mice. *J. Bone Mineral Res.*, 4:S306 (1989).
30. **Sampson HW**. President's Message. *TSEMJ*, 20:5 (1989).
31. **Sampson HW** and PJ Weldon. Paracloacal Glands of *Alligator Mississippiensis*. *TSEMJ*, 20:39 (1989).
32. **Sampson HW**. Calcium Hydroxyapatite Crystal Accumulation in the Intervertebral Disks of Progressive Ankylosis Mouse. *TSEMJ*, 20:40 (1989).
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34. **Sampson HW**. Intracellular Lipid Preservation by Malachite Green-Glutaraldehyde Fixation of Intervertebral Disks from Progressive Ankylosis Mice. *TSEMJ*, 21:31 (1990).
35. Chambers M, R Davis, D Hightower, D Kochevar and **HW Sampson**. Localization of Samarium-153 EDTMP in Normal Bone. (Presented at 2nd Annual Meeting of the Texas Mineralized Tissues Society, Kerrville, Texas, May 1990).
36. **Sampson HW**, JJ Vogel, N Ritter and F Hakim. Changes in Sphingomyelin and Non-Collagenous Protein During Intervertebral Disk Mineralization in Progressive Ankylosis Mice. (Presented at 3rd Annual Meeting of the Texas Mineralized Tissues Society, Galveston, Texas, April 1991).
37. King N, TW Odom, **HW Sampson** and A Yersin. In Ovo Boron Administration Alters Bone Mineralization of the Vitamin D-Deficient Chicken Embryo. *FASEB J.*, 5:A1309 (1991).
38. **Sampson HW**, JJ Vogel, N Ritter and F Hakim. Changes in Sphingomyelin and Non-Collagenous Proteins During Intervertebral Disk Mineralization in Progressive Ankylosis Mice. (Presented at the Fifth International Conference on Cell-Mediated Calcification and Matrix Vesicles, Hilton Head, South Carolina, November 1991.) *Bone and mineral* 17:309 (1992).
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40. Jeffrey, JS, **HW Sampson**, JD Williams, LA Martinez, TW Odom. Effect of hypoxic incubation on pulmonary vascular development in chickens from fast- and slow-growing lines using morphometric analysis. Am. Vet. Med. Assoc. Pittsburg, PA July 1995. (p141)
41. **Sampson HW** Early Bone Development and Alcohol: An Animal Model. Presented at the 6<sup>th</sup> Annual Scientific Meeting of the Texas Research Society on Alcoholism. Lubbock, TX February 1996.
42. **Sampson HW** Early Bone Development and Alcohol: An Animal Model. Presented at the 5<sup>th</sup> Annual Meeting of the Texas Mineralized Tissue Society, West Columbia, May 1996.
43. **Sampson HW** Early Bone Development and Alcohol: An Animal Model. First Texas A&M University Health Science Center Research Symposium, June 1996
44. Perks, NE, **HW Sampson**. The Effect of Alcohol on Bone Development in the Young Female Rat. *Alcohol Clin. Exp. Res.* 20 Suppl:80A (1996).
45. **Sampson HW** Early Bone Development and Alcohol: Chemistry and Histomorphometry. *J. Bone Minerl. Res.* 11 Suppl. 1:S222 (1996).
46. OA Marroquin and **HW Sampson**. Alcohol Decreases Trabecular Bone Volume In a Rat Model of Adolescent Bone Growth. To be presented at the national SACNAS in Oct. 1996 at Los Angeles, CA
47. Hubbard, JK, JW Elledge, S Opersteny, **HW Sampson**. EMG Analysis of the VMO and VML During Performance of Selected Knee Rehabilitation Exercises in Asymptomatic Subjects. To be presented at the American Physical Therapy Association meeting in Dallas in Feb. 97.

48. Hubbard, JK, **HW Sampson**, JW Elledge. The Prevalence and Morphology of the Vastus Medialis Oblique Muscle in Human Cadavers. To be presented at the American Physical Therapy Association meeting in Dallas in Feb. 97.
49. Hubbard, JK, **HW Sampson**, JW Elledge. The Vastus Medialis Oblique Muscle and its Relationship to Patellofemoral Joint Deterioration in Human Cadavers. To be presented at the American Physical Therapy Association meeting in Dallas in Feb. 97.
50. **H.W. Sampson**; C. Chaffin. Alcohol Consumption Reduces Trabecular Bone Volume Of Actively Growing Rats. *Alcohol Clin. Exp. Res.* 21:22A (1997)
51. J. K. Lange; **H.W. Sampson**. The Effect Of Alcohol On The Epiphyseal Growth Plate Of Actively Growing Rats. *Alcohol Clin. Exp. Res.* 21:23A (1997).
52. H.W. Sampson; D. Shipley. Moderate Alcohol Consumption And Bone Density In Ovariectomized Adult Rats. *Alcohol Clin. Exp. Res.* 21:22A (1997).
53. **H.W. Sampson**; H. A. Hogan. The Effect Of Alcohol On Cross-Sectional Bone Growth. *Alcohol Clin. Exp. Res.* 21:23A (1997).
54. H. A. Hogan; **H.W. Sampson**; E. Cashier; A .N. Ledoux. Alcohol Consumption In Young Actively Growing Rats Reduces Femur Mechanical Properties And Cortical Bone Tissue Quality. *Alcohol Clin. Exp. Res.* 21:22A (1997)
55. S. A. Dyer; **H.W. Sampson**. The Effect Of Alcohol Consumption On Magnesium Levels In A Rodent Animal Model System. *Alcohol Clin. Exp. Res.* 21:21A (1997).
56. L.C. Band; T.Y. James; T. Dassau; W. de los Santos; L. Newton; **H.W. Sampson**; J.R. West. Chronic Ethanol Consumption Increases Opioid Receptor Expression on Rat Splenic Lymphocytes. *Alcohol Clin. Exp. Res.* 21:44A (1997).
57. K.W. Peebles, J. Schwartz, **H.W. Sampson**, N. DuPont, F. Sohrabji. Regional Differences in High Affinity Choline Uptake as a Consequence of Chronic Alcohol Consumption. *Alcohol Clin. Exp. Res.* 21:105A (1997).
58. M.K. Jezierski, M.L. Johnson, F. Sohrabji, **H.W. Sampson**. Estrogen Receptor Regulation In Alcohol-Induced Osteopenia *Alcohol Clin. Exp. Res.* 21:53A (1997).
59. Catherine L. Chaffin, **H. W. Sampson**. The Effect Of Alcohol On The Bone Growth Spurt Of Rats At A Time Equivalent To Adolescent Females., presented at TRSA on March 7,1997 at Galveston, Texas.
60. Debra Shipley, **H. W. Sampson**. The Effect Of Moderate Alcohol Intake On Bone Density On Ovariectomized Rats., presented at TRSA on March 7,1997 at Galveston, Texas.
61. Sharon Gallagher, **H. W. Sampson**. A Study Of The Effects Of Binge Drinking On The Young Growing Rat Skeleton. presented at TRSA on March 7,1997 at Galveston, Texas.

62. **H. W. Sampson**; Harry A. Hogan; Catherine Chaffin and Jason Lange. Early Bone Development And Alcohol: Histomorphometry And Mechanical Properties. presented at TRSA on March 7,1997 at Galveston, Texas.
63. S. A. Dyer and **H. W. Sampson**. Mean Wall Thickness Of Trabecular Bone Packets Is Reduced By Alcohol Consumption In Rats. *J. Bone Mineral Res.*12: S223 (1997).
64. M. K. Jezierski\*, M. L. Johnson\* E. Cashier\*, F. Sohrabji\*, **H.W. Sampson**. Estrogen Receptor mRNA Expression in Rat Bone. *J. Bone Mineral Res.*12: S431 (1997).
65. S. P. Ruhmann, H. A. Hogan, and **H. W. Sampson**. Mechanical Testing of Trabecular Bone From the Proximal Tibia of Rats. To be presented at the American Society of Biomechanics, Clemson, SC, September, 1997.
66. J.B. Gelderd, **H.W. Sampson** and H. Mahoney. Qualitative and Quantitative Assessment of the Corticospinal Tract in Adult Rat Spinal Cord Following Prolonged Alcohol Consumption. *Neurosci.* 23:636 (1997).
67. Charles R. Partridge, Amanda Adams, **H.Wayne Sampson**, Reza Forough. Long-term Alcohol Consumption Increases MMP-2 Activity in Rat Aorta. Abstract to 1998 Keystone Symposia Conferences, Steamboat Springs, CO. Mar 28
68. **H.W. Sampson**. Alcohol Consumption And Osteoblast Function. *TSRA News & Views* 8:2 (1998)
69. H.L. Booe, **H.W. Sampson**. The Effects Of Life Long Alcohol Consumption On Calcium Regulating And Sex Hormones. *TSRA News & Views* 8:3 (1998)
70. V.A. Hebert, **H.W. Sampson**. The Effects Of Life Long Alcohol Consumption On Bone Composition. *TSRA News & Views* 8:3 (1998)
71. **H.W. Sampson**; V.A. Hebert; H.L. Booe. The effect of alcohol consumption on adult and aged bone. *Alcohol Clin. Exp. Res.* 22:66A (1998).
72. **H.W. Sampson** .The Effect of Life-Long Alcohol Consumption on Rat Bone. *Alcohol Clin. Exp. Res.* 22:149A (1998).
73. **H. W. Sampson** and H. L. Spears. Osteopenia Due to Chronic Alcohol Consumption by Young Actively Growing Rats is Not Completely Reversible. *Bone* 23:S459 (1998).
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75. C. Partridge, Q. Baca, **H.W. Sampson**, R. Forough. Effects of Alcohol and Acetaldehyde on Matrix Metalloproteinase-2. *Mol. Biol. Cell* 9:176a (1998)
76. T.H. Champney, G.C. McCord, **H.W. Sampson**. Four Teaching Strategies in Human Gross Anatomy. *FASEB Journal* 13:A1032 (1999)

77. **H.W. Sampson**. Chronic Alcohol Consumption And Osteoporosis. *Alcohol Clin. Exp. Res.* 23:118A (1999).
78. H. A. Hogan, **H.W. Sampson**. Engineering Insight as a Tool in Medical Research: An Example in Bone Mechanics. Presented at Prairie View A&M, March 1999
79. **H.W. Sampson**. Chronic Alcohol Consumption And Osteoporosis. Presented at the 9<sup>nd</sup> Annual TRSA meeting in Dallas.
80. H. A. Hogan, **H.W. Sampson**, J. A. Groves. The Effects of Long-Term Alcohol Consumption on the Mechanical Properties of the Rat Femur. *J.Bone Mineral. Res.* 14:S339 (1999).
81. B.R. Sodam, A.P. Koval, E.M. Awumey, **H.W. Sampson**, M. Zaidi, S. Epstein. B Lymphocyte Deficiency Affects Bone Mineral Metabolism in Mice. *J.Bone Mineral. Res.* 14:S299 (1999).
82. **HW Sampson**, HA Hogan, F Argueta, L Moe, LP Nguyen. Osteopenia Following Adult- Onset Alcohol Consumption. *Alcohol Clin. Exp. Res.* 24:132A (2000).
83. **HW Sampson**, HA Hogan . Adult and Elderly-Onset Alcohol Consumption Effects on Bone. *J.Bone Mineral. Res.* 15:S237 (2000).
84. H. A. Hogan, **H. W. Sampson**, L. P. Nguyen, J. A. Groves. Alcohol Consumption in Adult Rats Influence the Post-Yield Behavior of Cortical Bone. *J.Bone Mineral. Res.* 15:S489 (2000).
85. Hogan, HA, KD Harms, **HW Sampson**. Numerical Simulation and Evaluation of the Reduced-Platen Compression Test for Estimating Cancellous Bone Mechanical Properties in the Rat. *BED-Adv.Bioeng.* 51:1-2 (2001)
86. Hogan, HA, **HW Sampson**, M Dasgupta,S Bankston. Effects Of Alcohol On The Mechanical Properties Of Bone In Adult Ovariectomized Rats. To be presented at the Orthopaedic Research Society in Dallas on Feb. 2002
87. **H.W. Sampson**; H.A Hogan; L.S. Barker; J.L. Bowlin. Alcohol Consumption And Aged Bone. *Alcohol Clin. Exp. Res.* 26:141A (2002).
88. Hogan HH, KL Luthringer, SD Bankston, **HW Sampson**. Alcohol and Ovariectomy Effects on Trabecular Bone in Female Rats. To be presented a the IV World Congress of Biomechanics. Aug. 4-9, 2002 at Calgary Canada
89. Hogan, H and **H Sampson** Changes in Bone Mineral Density and Mechanical Properties Due to Alcohol and Ovariectomy in Trabecular Bone of Female Rats. To be presented at the 2002 International ASME Mechanical Engineering Congress & Exposition.

## INVITED LECTURES

“Calcium and Stimulus-Secretion Coupling” presented at Texas A&M College of Medicine, May 1979.

“An Animal Model for Mineralization”. presented at Baylor Dental College, 1983.

“Lesions of the Skeleton in an Autosomal Recessive Crippling Disorder in Mice: Is there a Human Counterpart?” Department of Pathology and Laboratory Medicine Seminar, Texas A&M Medical School (1988).

President's Message presented at the Texas Society for Electron Microscopy meetings, Spring 1989, 1990.

“Mineralization Initiation Factor and the Progressive Ankylosis Mouse”. Invited lecture presented at Creighton University School of Dentistry, Omaha, Nebraska. September 30, 1991.

“Bone and Alcohol” presented at the Texas A&M Faculty of Nutrition Seminar Series. May 1995.

“Alcohol, Osteoporosis and Calcium Regulating Hormones” presented at the annual meeting of the Research Society on Alcoholism at Steamboat Springs, CO., June 19,1995.

“The Effect of Alcohol on Adolescent Bone Growth and the Development of Peak Bone Mass” presented at Texas Woman’s University on Oct. 11, 1996

“The Effect of Life-Long Alcohol Consumption on Rat Bone”. presented at ISBRA in Lund Sweden July, 1998.

“Engineering Insight as a Tool in Medical Research: An Example in Bone Mechanics”. presented at Prairie View A&M, March 1999

“Alcohol’s Harmful Effects on Bone”, presented at the Texas A&M Faculty of Nutrition Seminar Series-February 2000.

**FUNDING**  
**(External Funding)**

1967-1970, NDEA Fellowship Title IV

1972-1975, NIH Dental Research Training Grant Faculty DE 224

1972-1975, NIH AM 16502, H Wayne Sampson, P.I., "Mineral Transport in Teeth and Soft Tissues," \$40,000.

1977-1978, The Upjohn Company, HW Sampson, "Parietal Cell Calcium Reservoirs and Acid Secretion," \$7,500.

1981-1984, NIH Oral Biology and Medicine Study Sect. AM 27132-01, HW Sampson, P.I., "Intracellular Calcium and Exocrine Secretion," \$121,861.

Private donation "Diabetes and Pancreas Transplantation," 1982, \$1,000; 1983, \$500; 1986, \$600.

1988-1990, Ethyl Corporation, TW Odom (PI) and HW Sampson (Co-Invest), "The Effect of Hydrated Crystalline Sodium Aluminosilicate Supplementation on Calcium Metabolism in the Japanese Quail Hen," \$9,329.00.

1990-91, Allen Foundation, HW Sampson, P.I., "The Role of Manganese and Copper Deficiency in the Development of Osteoporosis", \$12,565.

1991, Private donation received for a plastic-embedded X-sectioned cadaver. \$10,000.

1993-94, U.S. Department of Agriculture. (Collaborator), "Ascites Syndrome in the Broiler Chicken: Cellular and Hemodynamic Implications", \$91,000.

1993-94, Advanced Technology Program - Research. (Collaborator), "Embryonic Modulation and Genetic Selection for Resistance to Ascites Syndrome in Commercial Broiler Chickens", \$172,350.

1995, NSF Small Business Innovation Research Program. (Collaborator), "A Bioelectrical, Stress-Responsive, Composite Coating for Prostheses.", DMI-9460179, \$65,000.

1994-1999, NIAAA. (P.I.), "Alcohol and Osteoporosis: An Animal Model", 1RO1AA10234-01, \$615,703 (direct), 23% time

2000, NIAAA. (P.I.), "Alcohol and Osteoporosis: An Animal Model", 1RO1AA10234-01, \$10,000 extension

**SUBMITTED**

1995-1999, 1996-2000, NIH. (P.I.) "Moderate Alcohol Consumption and Osteoporosis".

1995-1999, 1996-2000, 1997-2001, NIH. (P.I.) "Effect of Alcohol on Adolescent Bone Development"

1996-1998, U.S. Army "Alcohol and Tobacco: Risk Factors For Osteoporosis".

1997, Asten Foundation, "Dual Energy X-Ray Absorptiometer" (Equipment grant).

1999-2003, NIH. (P.I.) "Gene Expression Associated with Skeletal Disease".

1999-2003, NIH. (P.I.) "Alcohol and Osteoporosis: An Animal Model".

2000-2005, NIH. (P.I.) "Local Signaling in Osteoblast Response to Ethanol". \$1,430,980, 25 % effort

2000 "Soy Protein and Bone: Lifetime Effects", United Soybean Board, \$10,000 incentive grant

2000- Alcohol Induced Osteopenia and IGF-1- 2000

2001-2006, NIH (P.I.) "Alcohol as a Risk Factor For Osteoporosis", \$1449,265 direct costs, 30% effort

ATP- pre-proposal submitted- "Assessing Mechanical Strength of Trabecular Bone in Rat Models for Osteoporosis"

ARP- pre-proposal submitted- "Developing strategic gene arrays to determine neural and osteogenic effects of estrogens"

2003-2005, NIH R21 ARO50724-01 (P.I.) "A Microarray Analysis of Aging Bone Tissue", 5% effort, \$100,000 direct cost.

U.S.-China Relations: Past, Present, Future.....proposal: "Health Crises in Aging Global Societies".

2003-2006, NIAAA 1 R01 AA014859-01, (PI) "Gene Patterns for Osteoporosis Risk Factors", 30% effort. \$1, 91,250 total (\$750,000 direct)

2004-2005, NIAMS 1 R21 AR050724-01 "Changes in Gene Patterns of Aging Bone" ARP 000089-0002-2003 (PI), \$300,000

### **(Internal Funding)**

1971, Creighton Institutional Grant, \$500.

1977, Baylor Institutional Grant, HW Sampson, "Adriamycin Cardiotoxicity: Prophylactic Effects of EHDP," \$1,798.27.

1980, A&M Institutional Grant, HW Sampson, "Scanning Electron Microscopic Techniques for Investigating Isolated Parietal Cells of the Gastric Mucosa," \$4,000.

1981, Texas A&M Institutional Mini-Grant, HW Sampson, "Calcium Localization and Eccrine Sweat Gland Secretion," \$450.

1982, Texas A&M Institutional Mini-Grant, HW Sampson and W Cocks, "Microsurgery Techniques for Pancreas Transplantation," \$400.

1983, Institutional Supplement, HW Sampson, "Calcium and Exocrine Gland Secretion," \$4379.43.

1984-85, Institutional Grant, HW Sampson, "Cryoultramicrotome Techniques", \$6093.39.

1986, Texas A&M Institutional mini-grant, HW Sampson, "Establishment of a Colony of Progressive Ankylosis (ank/ank) Mice", \$700.

1986, Biomedical Research Grant, HW Sampson, "Cellular Mechanisms of Retinal-Induced Cartilage Destruction," \$4500.

1988, Texas A&M Institutional Mini-grant, HW Sampson, "Establishment of a Folded Periosteum Culture Technique for Mineralization Studies," \$571.05.

1989, Biomedical Research Grant, RR05814, H Wayne Sampson, "Hypermineralization Factor," \$5,000.

1990, Biomedical Research Grant, RR05814, H Wayne Sampson, "Lipid Involvement in Cartilage Mineralization", \$5,000.

1991, College of Veterinary Medicine Enhancement funding, Co-investigator, "Pin Loosening in External Skeletal Fixation: Correlation of Electrochemical and Acoustic Impedance to Histologic and Mechanical Alterations of the Pin-Bone Interface", \$46,000.

1991, Texas A&M Institutional Mini-Grant, HW Sampson, "Osteocalcin Levels in osteoporotic Rats Fed a Mineral Deficient Diet", \$695.

6/96 - 5/97, Texas A&M Interdisciplinary Research Initiatives Program (co-PI), "Improved Methods for Studying the Effects of Estrogen Deficiency on Rat Bone Properties", \$24,774, 5% time

6/98 - 5/99, Texas A&M Interdisciplinary Research Initiatives Program (co-PI), "Tobacco and Alcohol Effects on Skeletal Condition", \$24,256. 5% time

1999, Texas A&M Institutional Mini-Grant, HW Sampson, Jay Bradfield, "Gene Expression Associated with Skeletal Disease", \$1,390.00