

CURRICULUM VITAE

NAME:

Gwendolyn Vaughn Childs, Ph.D., FAAA

May 2011

PRESENT POSITION:

Professor and Chair,
Department of Neurobiology and Developmental Sciences
University of Arkansas for Medical Sciences
TELEPHONE: (501) 686-7020
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CAMPUS ADDRESS:

Department of Neurobiology and Developmental Sciences
College of Medicine
University of Arkansas for Medical Science
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Cell phone: 501 952-5268
Web page: <http://cytochemistry.net/childs/childs.htm>

BIOLOGICAL:

November 28, 1944; Gordon, Nebraska
U.S. Citizen, former name: Gwen Moriarty
Married: 1992 Gary D. Jones

Home Address:

3 Northwest Court
Little Rock, AR 72212
(501) 217-8690
(501) 217-8217 (fax)

EDUCATION:

1962 - 1966	B.A. (Biology), Whitman College, Walla Walla, Washington
1968-1972	Ph.D. (Anatomy), University of Iowa, Iowa City, Iowa

PROFESSIONAL AND TEACHING EXPERIENCE:

- 1965 NSF Summer Fellow, Department of Radiation Biology and Biophysics, University of Rochester, Rochester, New York
- 1966-1968 Research Technician, Electron Microscope Laboratory, Department of Radiation Biology and Biophysics, University of Rochester, Rochester, New York
- 1967-1968 Graduate Student, Department of Biology, University of Rochester, Rochester, New York
- 1968-1972 NSF Predoctoral Fellow, Neuroendocrinology Training Program, Department of Anatomy, University of Iowa, Iowa City, Iowa
- 1971-1972 Visiting Student, Dept Anatomy, University of Nebraska, Omaha, Nebraska
- 1972-1973 Consultant to Research Service EM Laboratory, Veterans Administration Hospital, Omaha, Nebraska
- 1972-1973 Consultant to Edgewood Arsenal Research Laboratories, Edgewood Arsenal, Maryland
- 1972-1974 Course Director, Nurses Anatomy, Univ Nebraska Medical Center, Omaha, Nebraska
- 1972-1975 Assistant Professor, Department of Anatomy, University of Nebraska Medical Center, Omaha, Nebraska
- 1974-1977 Principal Investigator, NIH R01 HD08842
- 1973-1974 Graduate Teaching, Co-Director Adv Physiology (Cell Biology), University of Nebraska, Omaha, Nebraska
- 1974-1976 Principal Investigator, Basil O'Connor Starter Research Award National Foundation, March of Dimes
- 1974-1976 Co-course Director - Histology for Medical Students, University of Nebraska Medical Center, Omaha, Nebraska
- 1974-1976 Principal Investigator, Army Contract, Edgewood Arsenal
- 1975-1976 Associate Professor, Department of Anatomy, University of Nebraska Medical Center, Omaha, Nebraska
- 1976 Site Visit Teams, 2 grant centers, NICHD, NIH

1976 Graduate Teaching, Director - Advanced Histology, University of Nebraska, Omaha, Nebraska

1976-1980 Associate Professor of Anatomy and Biological Science, The Medical School, Northwestern University, Chicago, Illinois

1978-1980 Principal Investigator, NIH R01 HD10930 (continued from University of Nebraska, HD08842)

1977-1979 Course Director - Medical Microanatomy, Northwestern University, Chicago, Illinois

1977-1979 Director, Ultrastructural Cytology (60 Undergraduates and Graduate Students), Northwestern University, Chicago, Illinois

1977-1980 Principal Investigator, National Foundation, March of Dimes Basic Sciences Award

1977-1979 Director, Techniques in Electron Microscopy (15 students), Northwestern University, Chicago, Illinois

1979-1984 Research Career Development Award, NIH HD00395

1980-1981 Associate Professor, Department of Anatomy, University of Texas Medical Branch, Galveston, Texas

1980-1996 Teaching of Microanatomy, Department of Anatomy, UTMB

1981-2000 Professor of Anatomy & Neurosciences, University of Texas Medical Branch, Galveston, Texas

1981-1994 Principal Investigator, NIH R01 HD15472 (continued from Northwestern University HD10930; Current award \$498,081 total costs for 5 years beginning in 1989.)

1985, 1986 Ad hoc Study Sections, Reproductive Biology, AREA grants NIH

1985-1990 Principal Investigator, NSF DCB 8511627 and DCB 8710211

1986-1991 Principal Investigator, Project #3, Program Project Grant P01 HL37044

1983, 1984 Visiting Professor, The Weizman Institute, Department of Hormone Research, Rehovot, Israel (6 weeks)

1987-1990 Principal Investigator, Navy Contract N00014-88-K-0016

1986-1991 Adjunct Professor, Department of Physiology & Molecular Biophysics, Baylor College of Medicine, Houston, Texas

1988, 1989 Site Visit Teams, 3 Center Grants in Reproductive Biology: Oregon Regional Primate Center; Columbia University; Salk Institute, P04 center grants, NICHD, NIH

1990-1992 Sealy-Smith Foundation Creative New Idea Award

1991-1993 Program Director-Anatomy Graduate Program

1991 Ad Hoc study section to review Special Centers for Infertility; NICHD; August 1991

1991 Site Visit Team: P30 Grant; Tufts University; September

1992-1995 Principal Investigator, NIH R01 DK 39553; "Functional Differentiation of Corticotropes"; \$472,501 total

1992-1995 Principal Investigator, NSF DCB9018655; "Epidermal Growth factor modulation of corticotrope function"; \$250,000 total award.

1992 Site Visit Team; Center Grant, Baylor College of Medicine; October, 1992

1992 NIH study section- Small Business Grant Awards; October, 1992

1993 Endocrinology study section 1993-1997

1993 Site visit teams Center Grants: Oregon Regional Primate Center; Columbia University, University of Michigan; Univ Calif. San Francisco

1993 Representative of the American Association of Anatomists to the Federation of American Societies for Experimental Biology Journal (FASEB Journal) Editorial Board.

1996-2000 Chair, Membership Committee, The Endocrine Society

1996-2003 Principal Investigator, NIH R01 HD 33915-01 Novel Somatotrope functions during ovulation August 1, 1996-June 30, 2003; PI; \$745,955 total award, PI.

1996-2000 Member, Population Research Subcommittee, NICHD, NIH

1996-1999 Member, Health Professions Education Affairs Advisory Committee to the Texas State Coordinating Board.

1996-1999 Council, The Histochemistry Society

1997-2000	Coordinator, Basic Science Core, New Integrated Medical Curriculum, University of Texas Medical Branch
2000-2001	March 25, 2000: President, U.S. Histochemistry Society
2000	Winner of the Distinguished Teacher Award, University of Texas Medical Branch, Graduate School of Biomedical Science
2000-present	April 1, 2000: Chair, Department of Anatomy, University of Arkansas for Medical Science; Now Department of Neurobiology and Developmental Sciences
2002-2005	Chair, Membership Committee, The Endocrine Society
2003-2008	Director, Medical Microanatomy
2003	Principal Investigator, Project funded by NSF IBN 0240907 Regulation of Leptin expression in the anterior pituitary (\$342,599 total costs + \$12,750 REU supplement)
2004	Principal Investigator, Project funded by NIH R03 HD 44857 Regulation of Leptin production by gonadotropes (\$142,000, total costs) Principal Investigator Project funded by NIH R21 HD 047467-01. Cellular Basis for non-parallel gonadotropin release (\$250,000 direct costs).
2004	Innovations in Education Award, College of Medicine, University of Arkansas for Medical Sciences, 2004 (Co-recipient with Dr. Robert McGehee, for developing large group PBL Sessions that integrated biochemistry and cell biology)
2007	Runner up-Golden Apple Award, given by Freshman Medical Class
2006-2007	Council, Association of Anatomy, Cell Biology and Neurobiology Chairs (AACBNC)
2008-2009	President-Elect (2008-2009) and President (2009-2010) of Association of Anatomy, Cell Biology and Neurobiology Chairs (AACBNC)
2009	Principal Investigator, project funded by NIH 1 R01 HD059056-01, The Significance of Leptin Signals to Neonatal Somatotropes and Gonadotropes; 1.785 million; July 2009-June 2014

- 2009 Principal Investigator: ARRA Project funded by R03 HD05966 04/01/2009-03/31/2011 Significance of Pituitary Leptin to Gonadotropes \$145,000 total costs.
- 2009 [Outstanding Woman Faculty Award](#); Woman's Faculty Development Caucus, UAMS
- 2009-2011 Gold Sash Award, Given by Graduating Medical Class of, 2009, 2010
- 2006-2011 Red Sash award (given by each Graduating Medical Class) to faculty who have most influenced them during their medical career
- 2010-2012 Received NSF large equipment grant as one of 4 Co-Principal Investigators We have purchased state of the art electron microscope and tissue preparation, and microtomy equipment
- December 2010 [Press release](#) for findings on obese mouse, published in Endocrinology online, November 2010 (see reference 141 and B. Press Releases).
- April 2011 Selected as a Fellow of the American Association of Anatomists, (FAAA) and honored at their meeting in Washington D.C. (top 10% of the field, selected for contributions to Anatomy and research field); [Press release 3/16/2011](#).
- May 2011 Elected to the Board of the [Society for Executive Leaders in Academic Medicine](#) as the South Regional Representative.

RESEARCH ACTIVITIES

Area of Research: Neuroendocrinology, Anterior Pituitary cytochemistry and cytophysiology;

General Research: Endocrinology, electron microscopic histochemistry, cell biology and cytophysiology.

Specific Projects: Mechanisms of regulation of synthesis, secretion and differential storage of pituitary hormones. Cellular differentiation in the pituitary. Multipotential functions expressed by pituitary cells; Releasing hormone binding and interaction with pituitary cells. Paracrine interactions between pituitary cells mediated by cytokines (leptin) and growth factors (EGF). Effect of stress on the hypothalamic-pituitary axis. Cross talk between nutritional state and pituitary gonadotropes or growth hormone cells. Effects of leptin on pituitary gonadotropes and somatotropes.

Methods and approaches: Cytochemical studies of hormone synthesis with *in situ* hybridization, binding with biotinylated analogs of releasing hormone, and storage. Purification and differentiation of corticotropes, gonadotropes and somatotropes, Cre-lox knockouts of leptin and leptin receptors selectively in gonadotropes or somatotropes. siRNA knockouts of leptin or leptin receptors in pituitary cells.

Grant support:

FUNDED:

NIH R01 HD059056-01 (Childs-PI). Significance of Leptin Signals to Neonatal Gonadotropes and Somatotropes. July 1, 2009-June 30 2014; \$1.7855 million total costs; Received 111 score at the 1.7th percentile.

NIH R03 HD059066-01 (Childs-PI) Significance of Pituitary Leptin to Gonadotropes; May 1, 2009—April 30, 2011. \$145,000 total costs (ARRA)

NIH P20 20146-Project IV (Childs-Mentor) Role of leptin in obesity and sleep. 8/1/2009-4/30/2012. \$450,000 direct costs; Noor Akhter, Project Director.

NSF Major Research Instrumentation Grant NSF-0959745 ; ‘Electron Microscope System for Sample Preparation, Biological Microscopy, Tomography, and Visualization of Protein complexes’; \$1.491 million, 12/1/2009-11/30-2011. Co-Principal Investigator with 4 other faculty from Physiology (Storrie and Lubashin), Biochemistry (Raney and Baldini). Equipment to include 200 kV FEI F20 and \$404,000 Leica Microsystems tissue processing/cryoultramicrotomy equipment

Past (last 7 years):

NSF IBN 0240907 Regulation of Leptin Expression and Function in the Anterior Pituitary April 15, 2003-March 31, 2007; 342,599 Total costs, PI. REU supplements 2003 (12,750); 2004 (12,500) Role-PI

NIH R03 HD 44875: Regulation of Leptin production by gonadotropes: April 2004--March 2007.; \$146,000 (funded; received a 2.5th percentile score), Role-PI

NIH R21 HD 047467-01 Cellular basis for Non-Parallel Gonadotropin release. \$348,700; 7/1/2004—6/30/2007 (Received a 5.9th percentile score). Role-PI

Past: (last 20 years)

NSF IBN 9724066, Epidermal Growth Modulation of Gonadotrope Function, August 1, 1997-July 31, 2003; PI; \$150,000, PI.

NIH R01 HD 33915-01 Novel Somatotrope functions during ovulation August 1, 1996-June 30, 2003; PI; \$745,955 total award, PI.

NIH R01 DK44363-01 "Regulation of Corticotrope Excitability". Co-investigator, 10%; Principal Investigator-Dr. Aileen Ritchie; \$645,159 total award. 5/1/97--4/30/01.

Sealy Smith Development grant. Novel somatotrope functions during ovulation Feb 1, 1995-Jan 31, 1997; PI; \$100,000.

NIH R01 DK44363-01 "Regulation of Corticotrope Excitability". Co-investigator, 10%; Principal Investigator-Dr. Aileen Ritchie; \$487,900 total award. 5/1/92--4/30/96.

R01 HD 15472 Continuation of NIH Grant brought from Northwestern University in 1980 (R01 HD 10930). Principal Investigator, 40% "Hormone Storage and Secretion in Gonadotropes," University of Texas Medical Branch (Direct costs: \$187,000, 1980-1985; funded supplement \$20,000, 1985; \$239,000, 12/1/85-11/30/88). Current award is: \$498,081 total costs, 12/1/1989--8/31/1996.

NSF DCB 9018655 "EGF Modulation of Corticotrope function", Principal Investigator, 15%; Total award \$250,000; 3-15-92--3-31-96.

NIH R01 DK 39553-01 "Functional Differentiation of Corticotropes," Principal Investigator, 25%; Total award: \$472,501, 3-1-92--2-28-96.

Merck Contract. Tests of agonists on separated and enriched populations of gonadotropes. \$16,404 total award, PI, 12/1/93-open

Merck Contract: Tests of agonist activity on enriched growth hormone cells. \$23,500 total award, PI, 9/1/94--open.

NSF DCB-8511627, "Secretory Mechanisms in Pituitary Opiocortin Cells," Principal Investigator, University of Texas Medical Branch (\$157,000 10/1/85-3/31/88)

Sealy-Smith Foundation Bridging Grant "Hormone Storage and Secretion in Gonadotropes" Principal Investigator, (\$15,000, 4/1/89 - 3/31/90).

Rorer Foundation Contract "Immunohistochemical Studies of Pituitary Tumors", Principal Investigator, (\$13,400).

Program Project Grant, P01 HL37044, (Project #3, "Calcium Modulation of CRF Action in the Pituitary") - PI, Program Director - A.M. Brown, M.D., Ph.D., Dept Physiology & Molecular Biophysics, Baylor College of Medicine, Houston, TX \$215,960 direct costs for 7/86-6/91).

NSF Grant DCB-8710291, "Modulation of CRH Action," Principal Investigator, Univ. of Texas Medical Branch (\$80,000 4/1/88-3/31/90)

US - Israel Binational Foundation grant to support collaborative studies with Dr. Zvi Naor, Department of Biochemistry, University of Tel Aviv, Tel Aviv, Israel. (\$38,900/year; 9/01/87-8/31/90) PI = Dr. Naor.

Navy Contract, N00014-88-K-0016, Principal Investigator, "Secretory Mechanisms in Opiocortin Cells During Cold Stress" (10/1/87-9/30/91 \$257,415 total costs).

Sealy-Smith Foundation Creative New Idea Award "Modulation of Corticotrope Growth and Function in a New Enriched Pituitary Culture" Principal Investigator, (\$60,000, 09/01/90 - 03/01/92).

COMMITTEE RESPONSIBILITIES:

National and International

1980-1999

U.S. Delegate to International Histochemical Society, 1983-1984
Council, U.S. Histochemistry Society, 1982-1985;1996-1999;
President, US Histochemistry Society 2000
Nominations Committee, American Society for Anatomists, 1983
Educational Affairs Committee, American Society for Anatomists, 1984-1987
Organizer of Minisymposium on "Imaging Techniques," Meetings,
American Society for Anatomists, Toronto
Membership Committee--Endocrine Society, 1993-1996, Chair 1996-2000;

Association of American Medical Colleges Professional Development Seminar for Junior Women Faculty, November 29-December 1, 1993; The Eldorado Hotel, Santa Fe, New Mexico. Led a Workshop on "Power in Relationships: Building Networks and Dispelling Gender Stereotypes. Also was on a Panel discussing "Case Histories in Academic Career Building"

Association of American Medical Colleges Professional Development Seminar for Junior Women Faculty, December 5-7, 1993, in Charleston, South Carolina. Led a Workshop similar to the one the previous year. Served on a panel discussing:" Key Skills in Academic Career Building" .

Association of American Medical Colleges Professional Development Seminar for Junior Women Faculty. December, 1994, Santa Fe NM. Led a workshop in parenting and time management.

1999-2010

President, U.S. Histochemical Society, 2000-2001
Strategic Planning Committee for the Endocrine Society 2001
Developmental Committee: The Endocrine Society, 2000-2004
Chair of Membership committee: 2002-2005
Council- Association for Anatomy, Cell Biology and Neurobiology Chairs (AACBNB) 2005-2007.
President Elect: Association for Anatomy, Cell Biology and Neurobiology Chairs (AACBNB) 2008-2009.
President: Association for Anatomy, Cell Biology and Neurobiology Chairs (AACBNB) 2009-2010. Past President 2011-

Grant Review Teams

NIH Study Section, Reproductive Endocrinology, ad hoc member of special review group for AREA Grants, 1985, 1986
Site Visit Teams 1988: PO4 Center Grant, Reproductive Biology, **1989**: Columbia University, Core Center Grant, Reproductive Biology, Oregon Reg. Primate Center; PO4 Center Grant, Reproductive Biology, LaJolla, Calif., **1990**: P30 Center Grant, Reproductive

Biology, Kansas City, **1991**:P30 Center Grant, Tufts University **1992**: Baylor College of Medicine **1993**: Northwestern University P01; Oregon Regional Primate Center P30 Grant; Columbia University P50 grant; University of Michigan P30 Grant, Univ. Calif. San Francisco P30 Grant--(all of these are in Reproductive Biology)

Special Study Sections: Centers for Infertility Research; NICHD August, 1991; Small Business Grants-1992, 1993

Endocrinology Study Section: 1993-1995

Population Committee Panel Review for Center grants: November 1995

Study Section: Population Review Committee, Member NICHD NIH, 1996-2000

Reviewer service--Past 10 years

Chair of U54 review committee, NICHD Dec 2001; On U54 review committee Nov, 2002
2003-2005:

Ad hoc review study section for U54 Center Grants, NICHD , 2006, 2007, 2008

Reviewer and Site visitor of Cell Biology Graduate Program, University of Cincinnati, November, 2005

Chair of P01 Review committee, 2005, NICHD

PO1 Telephone Conference Review 2008, 2009 NICHD

ICER Study section, 2007

Reviewer for LRP grants 2005, 2006, 2007, 2008, 2009, 2010, 2011

Reviewer for NIA PPG 2008, 2009

Site Visit Reviewer for NICHD Intramural Program March, 2008

Challenge Grant reviewer 2009

Reviewer for Howard Hughes Med into Grad Initiative Training Grants (Med into Grad initiative) July 2009

Ad hoc reviewer on Special Study Section 2009

Reviewer for U54 grants: 2010

Ad hoc reviewer on ICER study section 2011

State committees:

Texas Higher Education Coordinating Boards Health Education Advisory Committee.

Representing University of Texas Medical Branch January 1996-1999; Chair of ad hoc committees to review three programs: Radiation Therapy (1996) Ph.D. in Integrative Biology (1997) and A Doctorate in Pharmacy (1998).

University Committees:

University of Texas Medical Branch

Appointments, Promotions and Tenure, 1981-1984

Chairman, 1983-1984

Search Committee for Chairman, Department of Human Biological Chemistry & Genetics, 1982-1983

Ad hoc Committee for Evaluation of Clinical Research, 1983

Ad hoc Committee for Scholarly Activity, 1984

Master of Medical Science Steering Committee, 1984-1985

Search Committee, Chairman Department of Physiology & Biophysics, 1985
Academic Planning Committee, 1986-1989, Chairman 1988-1989
Ad hoc Committee for Research, 1985-1988
Graduate Curriculum Committee, Graduate School, 1986-1987
Sealy-Smith Foundation Review Board for Grants, 1987-1989
Director, Anatomy Graduate Program, 1991-1993
Director, Cell Biology Graduate Program 1993-
Nominating Committee 1991-1993
Faculty Advisory Council on Research 1991-1994
Search committee, Office of Legal Affairs Director. 1992
Ad hoc review committee for Office of Sponsored Research 1992
M.D. Ph.D. Committee--1994-95
Internal Committee for the Self Study of the Graduate School of Biomedical Sciences 1994
Task Force for the Revision of the Curriculum 1996
Chair of the Modalities of Education Subcommittee 1996
Ex officio member, New Curriculum Committee 1997-
Scientific Integrity Committee

University of Arkansas for Medical Sciences

Search committee, Dean, College of Medicine
Chairman, Council of Department Chairs
Ad hoc committee to design Medical Cell Biology.
Search committee, Chairs of Surgery, Ob-Gyn, and Internal Medicine
Dean's Distinguished Lecture Committee; Chair 2006-2008
Course Directors committee
Promotions Committee
Chair, Search committee, Chair of Pharmacology and Toxicology
Chair, Search committee, Director of Diversity Recruitment
LCME review subcommittee
Chair, Criteria 4 Committee for NCA review
Co-Chair, Search committee, Pediatrics Chair

University of Central Arkansas

Member of the University of Central Arkansas College of Natural Sciences and Mathematics advisory board 2007-present

Selected past committee service (1980 and earlier)

Admissions Committee, Northwestern University, 1977-1980
Curriculum Committee, Northwestern University, 1976-1980
Chairman of Graduate Committee, Northwestern University, Department of Anatomy, 1979-1980

TEACHING RESPONSIBILITIES:

University of Texas Medical Branch

Medical School: Medical Microanatomy, Gross Anatomy/Radiology (facilitator),
Endocrinology and Reproduction (facilitator)

Graduate School: Program director, Cell Biology Graduate Program, 1992-1999 Courses taught: Microanatomy, Advanced Microanatomy, Research Techniques, Cell Biology Neurochemistry, Neuroendocrinology, Graduate Dissertation and research.

University of Arkansas for Medical Sciences

Medical School: Medical Microanatomy, Cell Biology
Course Director, Medical Microanatomy 2003, 2004, 2005, 2006, 2007

Graduate School: Cell Biology

Selected Past Teaching

Microanatomy Course Director--Northwestern University, 1977-1979
Functional Cytology Course Director--Northwestern University 1976-1979
Microanatomy Co-Course Director--University of Nebraska 1975-1976
Cell Physiology Course Co-Director, University of Nebraska 1975

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

American Association of Anatomists
Histochemical Society
American Association for the Advancement of Science
Endocrine Society
Society for the Study of Reproduction
Society for Neuroendocrinology

BOARD CERTIFICATION: NA

LICENSURE INFORMATION: NA

HONORS:

Who's Who in American Colleges and Universities, 1966
Basil O'Connor Starter Research Award to Young Investigators, 1974-1976
Speaker at the 1st Basil O'Connor Symposium in Boston, 1976
Research Career Development Award, 1979-1984
Faculty Marshall for Medical School Graduation (UTMB)-1992, 1993, 1994, 1999
Representative to the FASEB Journal Editorial Board from the American Association of Anatomists (one of two representatives)
Distinguished Teacher Award, Graduate School of Biomedical Sciences, University of Texas Medical Branch, 2000
Innovations in Education Award, College of Medicine, University of Arkansas for Medical Sciences, 2004
Runner up, **Golden Apple Award**, Freshman Class, 2007
Outstanding Woman Faculty, Women's Faculty Development Caucus, UAMS, 2009
Red Sash award, Sr. Class, 2006, 2007, 2008, 2009, 2010, 2011

Gold Sash Award, Sr. Class 2009, 2010, 2011
Fellow of the American Association of Anatomists (FAAA) 2011

Awards to Students and Fellows for Research done in Lab:

Dr. K.N. Westlund, (Postdoctoral Fellow) Vector Laboratories Travel Award Histochemistry Society Meetings, 1983, Charleston, S.C. Abstract #36 in CV.

Dr. Axel Niendorf (Visiting Fellow) Vector Young Investigator Award; Histochemical Society Meetings, 1986, San Francisco, CA. Abstract #48 in CV.

Dr. Jonathan Lloyd, (Ph.D. Student) James E. Beall II Memorial Award in Anatomy and Neurosciences, for Best Ph.D. Dissertation in Neurosciences 1988, University of Texas Medical Branch, Galveston, TX.

Chris Swearingen, (M.D. Summer Student) First Prize for research and poster in an NIH Sponsored Research Program, 1989, University of Texas Medical Branch, Galveston, TX.

Dr. Ping Wu, (Ph.D. Student) Ralph D. Lillie Award for Best Paper Presented by a Graduate Student. International Meeting, US-Japan Histochemical Society, August 1990, Seattle, WA. Abstract #56 in CV.

Dr. Ping Wu, (Ph.D. Student) Travel Award (\$500) for Best Poster in Neurosciences Session, Dec. 4, 1990. Galveston Chapter, Neurosciences Society, Abstract #57 in CV.

Dr. Ping Wu (Ph.D. Student) George Sealy award, 1990

Dr. Ping Wu, Ph.D. Dean's award at Graduation. (Note: Dr. Wu has returned to UTMB after Postdoctoral and Jr faculty positions in Florida and at Harvard. She is now an Associate Professor and highly celebrated for her work on neuronal stem cell transplants.

Dr. James Patterson (Ph.D. student) BEALL Award for Tuition payments. 1992; Two awards for Poster Presentation at the National Student Research Symposium, 1994

Dr. Xuemo Fan: Galveston Neurosciences Chapter Travel Award, 1993, Second place poster

Iris McDuffie, M.S.; First place in poster session, Student Career Day, University of Arkansas for Medical Sciences 2002

Mary Iruthayanathan, M.D., Ph.D. First and Second Place in Poster Sessions, Student Research Forum, University of Arkansas for Medical Sciences;

Mary Iruthayanathan, M.D., Ph.D. Travel Award, The Endocrine Society, 2005; She was a first runner up for a distinguished scholar award from the Endocrine Society in 2006 during her first year as a Postdoctoral fellow.

ADDITIONAL INFORMATION:

Editorial Boards:

American Journal of Anatomy, 1976-1980, 1980-1990
J. Histochemistry - Cytochemistry, 1975-1979; 1979-1983; 1983--present
Associate Editor 1996-1998
Neuroendocrinology, 1987-1990, 1990-1993
Frontiers in Neuroendocrinology 1989--
Endocrinology 1993--1996; 1996-1999
The FASEB Journal (representative from the American Association of Anatomists)-1993--
Cell Vision 1994-
Receptor 1994-
Scientific Editor: Journal of Endocrinology 1995—1999
Review editor of Frontiers in Systems and Translational Endocrinology 2011-
Editorial Board of ISRN Endocrinology 2010-

Associate Editor:

The FASEB Journal 1993-2000
Scientific Editor: Journal of Endocrinology 1995-2004
Associate Editor, J Histochemistry Cytochemistry. 1996-2006

Co-Editor:

Burton L. Baker Memorial Issue American Journal Anatomy, August 1980
with Drs. Karl Knigge and Ludwig Sternberger

Guest Editor:

Special Issue of American Journal of Anatomy on Immunocytochemical
Technology, February-March 1986
Special Issue of American Journal of Anatomy on "Advances in Colloidal Gold
Technology", July - August 1989

Journal Reviewer:

Cell and Tissue Research
Molecular Endocrinology
Journal of Clinical Endocrinology and Metabolism
Stain Technology
Neuroendocrinology
Peptides
Life Sciences
Brain Research
Journal Biological Chemistry
Diabetes
PNAS
Molecular and Cellular Endocrinology
American Journal of Physiology
The Endocrine Journal

Invited Speaker:

1972-1997

- Gordon Research Conference Immunocytochemistry, Beaver Dam, Wisconsin, August 1972
- Pituitary Cytochemistry, Tokyo, Japan, August 1975
- Gunma Symposium on Endocrinology and Reproduction, Gunma University, Japan, August 1975
- Symposium, "Structure and Function of the Gonadotropins," The International Society Biochemical Endocrinology, Bar Harbor, Maine, November 1976
- Basil O'Connor Research Symposium, National Foundation March of Dimes, November 1976
- Histochemical Society, Symposium on Pituitary Cytochemistry, "Glycoprotein Hormones," April 1973
- Histochemical Society Meetings, Symposium on Target Organ Localization of Hormones, 1976
- Electron Microscopy Society of America, San Antonio, Texas, Symposia, Workshop on Immunocytochemistry, August 1979
- Oklahoma Electron Microscopy Society, conducted two-day Workshop in Immunocytochemistry, Stillwater, Oklahoma, February 1980
- American Society for Cell Biologists, Workshop on Immunocytochemistry, Anaheim, California, November 1982
- International Meeting of Japanese and American Histochemical Societies, Symposium on Validation in Immunocytochemistry and Workshop on Immunocytochemistry, Vancouver, Canada, July 1982
- International Symposium on Immunomorphology, Varna, Bulgaria, September 1983
- International Symposium on the "Hormonal Control of the Hypothalamo-pituitary - Gonadal Axis," The Weizmann Institute of Science, Rehovot, Israel, October 1983
- International Symposium, "Anterior Pituitary," Jikei University, Tokyo, Japan, November 1984
- International Symposium, "Newer Aspects of Pituitary Cell Function," VII International Congress of Endocrinology, Quebec City, July 1-7, 1984
- Seminar, The Weizmann Institute, Department of Hormone Research, December 1984
- Workshop on Immunocytochemistry, Michigan Electron Microscopy Forum, Ann Arbor, Michigan, May 1985
- Workshop on Immunocytochemistry, Iowa Microbeam Society, Iowa City, Iowa, September 1985
- Symposium on "Structure and Function of Gonadotropins." to honor Dr. J. G. Pierce, Howard Hughes Institute, Coconut Grove, Florida, February 1986
- Reproductive Endocrine Unit Seminar Series, Massachusetts General Hospital, Harvard University, December 5-6, 1986
- Workshop on Immunocytochemistry, Upjohn Co., Kalamazoo, Michigan, December 15-16, 1986
- Symposium on ACTH to honor Dr. Dorothy Krieger, New York Academy of Sciences, April 6-8, 1987
- Symposium on Immunocytochemistry + Workshop, National Meetings, Electron Microscopy Society, August 2-8, 1987
- Symposium on Neuroendocrinology of Reproduction, The Netherlands, August 26-29, Symposium on "The Anterior Pituitary Gland - Fundamental and Pathological Aspects," Conference Inserm, Chateau de Seillac, France, September 20-25, 1987

Symposium on Immunogold Techniques sponsored by Janssen's, Inc., Cell Biology Meetings, November 17, 1987, St. Louis. Winter Brain Conference, Steamboat Springs, Colorado. Invited Symposium on "Intermediate Lobe" January 23-29, 1988.

Reproductive Neurobiology Symposium - Galveston Chapter of Neurosciences, May, 1988

Serono Symposium on Gonadotropins, Newport Beach, Calif., March 19-24, 1989

Conference on "Current trends in Immunomicroscopy", Keynote speaker and invited talk about research. George Washington University, Washington, D.C. May 28-31, 1992.

Symposium on "Immunocytochemistry: New Solutions for Old Problems"; Talk on Immunocytochemistry in combination with other techniques". 9th International Congress of Histochemistry and Cytochemistry, The Netherlands, Maastricht. August 30- September 5, 1992

AMWA Professional Development Seminar, Faculty: November 29-December 2, 1992; Sante Fe New Mexico

Texas Society for Electron Microscopy (TSEM) Invited lecture on Current Trends in the non-radioactive detection of mRNA, in situ. March 27, 1993

Conference on Trends in Cell and Molecular Biology, Invited lecture on "An Introduction non-isotopic methods for in situ hybridization for light and electron microscopy." The George Washington University Medical Center, Washington, D.C.

Course on colloidal gold cytochemistry, Lecture on "In situ hybridization", University of Montreal, Montreal, Quebec June 7-11, 1993

Texas Society for Electron Microscopy. Invited Workshop on In Situ Hybridization. October 23, 1993, Galveston, TX.

AMWA Professional Development Seminar Faculty, Charleston, SC. December 5-7, 1993, 1994

Reproductive Sciences Program, Seminar, University of Michigan, May, 1996

International Society for Neuroendocrinologists. Symposium on Growth Factors, September 1997. Marseilles, France; Platform presentation: EGF effects on pituitary corticotropes and gonadotropes.

Penn State University Medical Center, Hershey Pa, Neuroendocrine group; Neuroscience Graduate program. May, 1998, Seminar

5th International Pituitary Congress, Invited to give Oral presentation on Paracrine interactions in Pituitary Cell Function, June 28-30, 1998.

Past 10 years

Symposium at the 2000 American Society of Physiology meeting, FASEB, Presentation on EGF regulation of pituitary cells, April 2000.

Symposium on the Pituitary Gland, "Development and function of gonadotropes". ChristChurch, New Zealand, August, 2001

Presidential Symposium at the US-Japan Joint Histochemistry Society meeting, Seattle, Washington, July, 2002 "Regulation of Synergy in the Pituitary".

Symposium on the Hypothalamic-Reproductive Axis, International Society for Neuroendocrinology Meeting, Bristol, England, August, 2002. "Neuroendocrine Regulation of Infertility".

Seminar, University of Oklahoma, Visiting Professor Series, Regulation of synergy in the anterior pituitary. November, 2003

Workshop on Retention and Incentive plans, American Association of Anatomy, Cell Biology, and Neurobiology Chairs, Key West, Fla 2004

Conference on Steroids in the Brain, Invited presentation during “Workshop on Estrogen regulation of growth hormone secretion: March, 2004, Breckenridge, Colo.

ASPET Symposium on Gender and Obesity, FASEB, April, 2004, Invited talk on “Estrogen regulation of leptin expression in the pituitary”

Invited speaker at the International Symposium on Signal Transduction in Health and Disease (STADY IV), held at the University of Tel Aviv, Tel Aviv, Israel. 10/26-10/28, 2005 Talk: PITUITARY LEPTIN: A LINK IN THE NPY-GnRH SIGNALING PATHWAY TO LH RELEASE?

Invited to organize symposium at the 2006 annual meeting of the Society for the Study of Reproduction. Symposium was on Pituitary Plasticity; Session continued in platform talks later that day. August, 2006

Workshop on Immunocytochemistry, Invited Lecture on history and basic concepts, April 5, 2008, Histochemistry Society Meeting (at Experimental Biology Meetings).

Invited talk at the US Histochemical Society Symposium in Gdansk, Poland (At the International Meetings of all Histochemistry Societies), August 24, 2008

Workshop on Immunocytochemistry, Invited Lecture on history and basic concepts, April 2009, Histochemistry Society Meeting (at Experimental Biology Meetings).

Invitation to speak in a session on “The road to tenure and the road from tenure” at the 2009 meetings of the Association of Anatomy, Cell Biology and Neurobiology Chairs meeting in the Galapagos, January.

Organized symposia on Faculty Development and Mentoring as well as Translational Research at 2010 meetings of the Association of Anatomy, Cell Biology and Neurobiology Chairs meetings in Curacao, January 2010

Invited Lecturer at the Washington Women’s Conference, American Association of University Women, Walla Walla Washington, April, 2010: Networking and Team Mentoring

Invited speaker at a Symposium on the Pituitary and Neuroendocrinology at the First meeting of the Conference on Endocrinology in Xiamen, China. January, 2011 (also chaired the session)

PUBLICATIONS:

A. ARTICLES IN PEER-REVIEWED JOURNALS:

1. Moriarty, G.C. and Halmi, N.S. Electron microscopic localization of the adrenocorticotropin producing cell with the use of unlabeled antibody and the peroxidase-antiperoxidase complex. *J. Histochem. Cytochem.* 20:590-603, 1972.
2. Moriarty, G.C. and Halmi, N.S. Adrenocorticotropin-production by the intermediate lobe of the rat pituitary. An electron microscopic study. *Z. Zellforsch.* 132:1-14, 1972.
3. Moriarty, G.C., Moriarty, C.M. and Sternberger, L.A. Ultrastructural immunocytochemistry with unlabeled antibodies and the peroxidase-anti- peroxidase complex: A technique more sensitive than radioimmunoassay. *J. Histochem. Cytochem.* 21:825-833, 1973.
4. Moriarty, G.C. Adenohypophysis: Ultrastructural cytochemistry. A review. *J. Histochem. Cytochem.* 21:855-892, 1973.
5. Petrali, J.P., Hinton, D.H., Moriarty, G.C. and Sternberger, L.A. Quantitative immunocytochemistry of corticotropin by the unlabeled antibody enzyme method with and without peroxidase-antiperoxidase complex (PAP). *J. Histochem. Cytochem.* 22:782-801, 1974.
6. Moriarty, G.C., Halmi, N.S. and Moriarty, C.M. The effect of stress on the cytology and immunocytochemistry of pars intermedia cells in the rat pituitary. *Endocrinology* 96:1426-1436, 1975.
7. Moriarty, C.M. and Moriarty, G.C. Bioactive and immunoreactive ACTH in the rat pituitary: Influence of stress and adrenalectomy. *Endocrinology* 96:1419-1425, 1975.
8. Moriarty, G.C. Electron microscopic-immunocytochemical studies of rat pituitary gonadotrophs: A sex difference in morphology and cytochemistry of LH cells. *Endocrinology* 97:1215-1225, 1975.
9. Moriarty, G.C. Ultrastructural-immunocytochemical studies of gonadotrophs. *Gunma Symposium on Endocrinology, Biology of Reproduction and its Hormonal Control.* 13:207-219, 1976.
10. Moriarty, G.C. and Tobin, R.B. Immunocytochemical characterization of the thyrotroph in rat and human pituitaries. *J. Histochem. Cytochem.* 24:1131-1139, 1976.
11. Moriarty, G.C. and Tobin, R.B. An immunocytochemical study of TSH storage in rat thyroidectomy cells with and without D or L thyroxine treatment. *J. Histochem. Cytochem.* 24:1140-1149, 1976.

12. Moriarty, G.C. Immunocytochemistry of the pituitary glycoprotein hormones. *J. Histochem. Cytochem.* 24:846-863, 1976.
13. Hutson, J.C., Gardner, P.J. and Moriarty, G.C. Immunocytochemical localization of a follicle stimulating hormone-like molecule in the testis. *J. Histochem. Cytochem.* 25:163-174, 1977.
14. Spaur, R.C. and Moriarty, G.C. Improvements of glycol methacrylate. I. Its use as an embedding medium for electron microscopic studies. *J. Histochem Cytochem.* 25:1637-1674, 1977.
15. Moriarty, G.C. and Garner, L.L. Immunocytochemical studies of cells in the rat adenohypophysis containing both ACTH and FSH. *Nature* 265:356-358, 1977.
16. Moriarty, G.C. Heterogeneity of ACTH containing cells in the rat pituitary (with emphasis on the structure and function of the intermediate lobe). *Ann. N.Y. Acad. Sci.* 297:183-197, 1977.
17. Halmi, N.S. and Moriarty, G.C. The origin of ACTH in man. *Ann. N.Y. Acad. Sci.* 297:170-182, 1977.
18. Childs, G.V., Hon, C., Russell, L.R. and Gardner, P.J. Subcellular localization of gonadotropins and testosterone in the developing fetal rat testis. *J. Histochem. Cytochem.* 26:545-564, 1978.
19. Childs, G.V., Cole, D., Kubek, M., Tobin, R.B., Wilber, J.F. Endogenous thyrotropin releasing hormone in the anterior pituitary: Sites of activity as identified by immunocytochemical staining. *J. Histochem. Cytochem.* 26:901-908, 1978.
20. Childs, G.V. and Ellison, D.G. Critique of the contributions of immunoperoxidase cytochemistry to our understanding of pituitary cell function. *The Histochem. J.* 12:405-418, 1980.
21. Ellison, D.G. and Childs, G.V. An improved method for the rapid collection of serial cells for electron microscopic analysis of their immunocytochemical stain. *J. Histochem. Cytochem.* 28:279-281, 1980.
22. Hutson, J.C., Childs, G.V. and Gardner, P.J. Considerations for establishing the biological significance of immunocytochemical stains. *J. Histochem. Cytochem.* 27:1201-1202, 1979.
23. Childs, G.V. and Ellison, D.G. An immunocytochemist's view of gonadotropin storage in the adult male rat. Cytochemical and morphological heterogeneity in serially sectioned gonadotropes. *Am. J. Anat.* 158:397-410, 1980.
24. Childs, G.V., Ellison, D.G., Yang, H.-Y., Kubek, M., Tobin, R.B. and Wilber, J.F. The effect of thyroidectomy, propylthiouracil and thyroxine on pituitary content and immunocytochemical staining of thyrotropin and thyrotropin releasing hormone. *J. Histochem. Cytochem.* 29:357-363, 1981.

25. Bauer, T.W. and Childs, G.V. Studies of immunoreactive gonadotropin releasing hormone (GnRH) in the rat anterior pituitary. *J. Histochem. Cytochem.* 29:1171-1178, 1981.
26. Childs, G.V., Ellison, D.G., Foster, L. and Ramaley, J.A. Postnatal maturation of gonadotropes in the male rat pituitary. *Endocrinology* 109:1683-1693, 1981.
27. Naor, Z., Childs, G.V., Leifer, A.J., Clayton, R.N., Amsterdam, A. and Catt, K.J. Gonadotropin releasing hormone binding and activation of enriched population of pituitary gonadotropes. *Mol. Cell Endocrin.* 25:85-98, 1982.
28. Dudek, R.W., Childs, G.V. and Boyne, A.F. Quick-freezing and freeze drying in preparation for high quality morphology and immunocytochemistry at the ultrastructural level. *J. Histochem. Cytochem.* 30:129-138, 1982.
29. Weizman, F.H. and Childs, G.V. Ultrastructural immunohistochemical localization of anti-invasion factor (AIF) in bovine cartilage matrix. *J. Histochem. Cytochem.* 30:524-531, 1982.
30. Childs, G.V., Ellison, D.G. and Ramaley, J.A. Adrenocorticotropin storage in corticotropes and a subpopulation of gonadotropes during the stress non-responsive period in the neonatal male rat. *Endocrinology* 110:1676-1692, 1982.
31. Childs, G.V. and Unabia, G. Application of the avidin-biotin peroxidase complex method to the light microscopic localization of pituitary hormones. *J. Histochem. Cytochem.* 30:713-716, 1982.
32. Childs, G.V., Ellison, D.G., Lorenzen, J.R., Collins, T.J. and Schwartz, N.B. Immunocytochemical studies of gonadotropin storage in developing castration cells. *Endocrinology* 111:1318-1329, 1982.
33. Hyde, C.L., Childs, G.V., Wahl, L.M., Naor, Z. and Catt, K.J. Preparation of gonadotropin-enriched cell populations from adult rat anterior pituitary cells by centrifugal elutriation. *Endocrinology* 111:1421-1423, 1982.
34. Westlund, K.N. and Childs, G.V. Localization of serotonin fibers in the rat adenohypophysis. *Endocrinology* 111:1761-1763, 1982.
35. Childs, G.V. and Unabia, G. The application of a new rapid avidin-biotin peroxidase complex (ABC) method to the electron microscopic localization of pituitary hormones. *J. Histochem. Cytochem.* 30:1320-1324, 1982.
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41. Childs, G.V., Naor, Z., Hazum, E., Tibolt, R., Westlund, K.M. and Hancock, M.B. Localization of biotinylated gonadotropin releasing hormone on pituitary monolayer cells with avidin-biotin peroxidase complexes. *J. Histochem. Cytochem.* 31:1422-1425, 1983.
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45. Tung, K.S.K., Ellis, E., Childs, G.V. and Dufau, M. The dark mink: A model of male infertility. *Endocrinology* 114:922-929, 1984.
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47. Westlund, K.N., Aguilera, G. and Childs, G.V. Quantification of morphological changes in pituitary corticotropes produced by in vivo CRF stimulation and adrenalectomy. *Endocrinology* 116:439-445, 1985.
48. Childs, G.V. Shifts in gonadotropin storage in cultured gonadotropes following GnRH stimulation in vitro. *Peptides* 6:103-107, 1985.
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52. Niendorf, A., Dietel, M., Arps, H., Lloyd, J. and Childs, G.V. Visualization of binding sites for parathyroid hormone (1-84) on cultured kidney cells with Biotinyl-b-PTH (1-84). *J. Histochem. Cytochem.* 34:357-361, 1986.
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66. Childs, G.V., Lloyd, J., Unabia, G., Gharib, S.D., Wierman, M.E. and Chin, W.W. Detection of LH β mRNA in individual gonadotropes after castration: use of a new in situ hybridization method with a photobiotinylated cRNA probe. *Molecular Endocrinology* 1:926-932, 1987.
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70. Drewe, J.A., Childs, G. V., and Kunze, D. L. Synaptic transmission mediated by amino acids in isolated neurons from a mammalian medial solitary tract nucleus. *Science* 241:1810-1812, 1988.
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B. Press Releases:

3/17/2009:

Gwen Childs named Outstanding Woman Faculty

<http://www.uamshealth.com/?id=4583&sid=1>

12/2/2010:

Regarding discovery published in Endocrinology (see reference 141). **UAMS Press Release:**

[UAMS Researcher Finds Genetic Link to Obesity](#)

KARN and KUAR radio stations have aired taped interviews with Dr. Childs.

CBS, Channel 11 news (local): [Interview and online article](#), [Video](#)

KARK NBC news broadcast: [Genetic Link to Obesity Found by UAMS Researcher](#)

ABC local news: [Study Finds Possible Link To Obesity](#)

Fox news: [Obesity Hormone](#)

MDLinX editorial commentary: [The Somatotrope as a Metabolic Sensor: Deletion of Leptin Receptors Causes Obesity](#)

12/10/2010: Endocrine News article describing the paper

http://www.endo-society.org/endo_news/2010/upload/Endocrine-News-December-2010.pdf

3/16/2011: [UAMS Research named Prestigious AAA Fellow](#)

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D. Web pages:

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E. Books or Symposium Chapters (edited):

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F. Books or Symposium Chapters (written):

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G. Abstracts:

The abstracts are not included in this version.