SUMMARY VITAE

LARRY F. LEMANSKI, Ph.D.

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WORK:

Texas A&M University-Commerce, Commerce, TX (2009-present)

1. Distinguished Research Professor (tenure) and Head, Department of Biological and Environmental Sciences (2013-present)
2. Institutional Official (2012-present)
3. Founding Executive Director and Chief Research Officer, Division of Research (2012-2013)
4. Provost and Vice President for Academic Affairs (2009-2012)
5. Professor (tenure) of Biological and Environmental Sciences (2009-2013)

Temple University, Philadelphia, PA (2007-2009)

Senior Vice President for Research and Strategic Initiatives
Professor (tenure) of Anatomy and Cell Biology, College of Medicine
Professor of Biology, College of Science and Technology
Affiliate Research Faculty, Cardiovascular Research Center

Florida Atlantic University, Boca Raton, FL (2001-2007)

Vice President for Research (2001-2007)
Vice President for Research and Graduate Studies (2002-2006)
Dean of Graduate Programs (2002-2006)
Professor (tenure) of Biomedical Science, College of Biomedical Science (2001-2007)
Professor of Biology, College of Science (2001-2007)
Professor of Chemistry, College of Science (2001-2007)

Florida Atlantic University Research Corporation [501-C-3] (2001-2007)

President and CEO

University of Miami, Miller School of Medicine, Miami, FL (2004-2007)

Volunteer Professor of Cell Biology and Anatomy

Texas A&M University, College Station, TX (1997-2001)

Associate Vice President for Research and Graduate Studies (1997-2001)
Acted as Vice President for Research (Office of Research and Graduate Studies (2000)
Professor (tenure) of Medical Physiology, College of Medicine, Texas A&M System Medical Center (1997-2001)
Professor of Biology, College of Science (1997-2001)

State University of New York Upstate Medical University, Syracuse, NY (1983-1997)

Professor (tenure) and Chairperson of Anatomy and Cell Biology (1983-1997)
Founder and First Director of Cell and Molecular Biology Research and Training Program (1987-1990)
Lecturer of Program in Medical Humanities (1994-1997)

Syracuse University, Syracuse, NY (1987-1997)
Research Professor of Biology, College of Arts and Sciences

University of Wisconsin, Madison, WI (1977-1983)
Professor (tenure) of Anatomy, College of Medicine (1981-1983)
Professor (affiliate) of Animal Biology, College of Agriculture (1981-1983)
Associate Professor (tenure) of Anatomy, College of Medicine (1979-1981)
Associate Professor (affiliate), College of Agriculture (1979-1981)
Assistant Professor of Anatomy, College of Medicine (1977-1979)
Assistant Professor of Animal Biology (affiliate), College of Agriculture (1977-1979)

University of California, San Francisco, CA (1975-1977)
Assistant Professor of Anatomy (In Residence), College of Medicine

San Francisco Veteran's Administration Hospital, San Francisco, CA (1975-1977)
Research Associate, Division of Cardiovascular Research
Research Associate, Division of Cell Biology Research

University of Pennsylvania, Philadelphia, PA (1971-1975)
Muscular Dystrophy Association (MDA) Postdoctoral Fellow, Department of Biology, College of Arts and Sciences (1973-1975)
Research Associate, Muscle Biology Institute (1973-1975)
National Institutes of Health Postdoctoral Trainee, Department of Biology, College of Arts and Sciences (1971-1973)

EDUCATION:

Harvard University, Cambridge, MA, Intensive Training Session for University Executives (Summer, 2010)
University of Pennsylvania, Philadelphia, Postdoctoral Fellow, **1971-1975**
Arizona State University, Tempe (Zoology), Ph.D., 1971
"Histological, Histochemical and Ultrastructural Studies on Developing Hearts of Normal and Cardiac Lethal Mutant Axolotls, Ambystoma mexicanum"
Arizona State University, Tempe (Zoology), M.S., 1968
"Ultrastructural Studies on 48-hour Canine Renal Homografts"
University of Wisconsin, Platteville (Biology major; Chemistry minor), B.S. (with honors), 1966

SCHOLARSHIP:

108 Refereed journal articles
12 Refereed Proceeding Articles
9 Invited Research Review Book Chapters

176 National and International Professional Paper Presentations
1 Newspaper Article
26 Postdoctoral Fellows and Research Associates
14 Doctoral Dissertations (Major Professor and Chair)
22 Masters Theses (Major Professor and Chair)
4 Undergraduate Honors Theses
>115 National and International Lectures
15 Professional Organization Memberships
21 Boards of Directors Memberships
19 Manuscript referee for 19 different journals
2 Editorial Boards for two journals
11 Grant referee for 11 different agencies

FUNDRAISING/FUND GETTING:

33 Funded Extramural Research Grants as Principal Investigator/Principal Offerer Total funding ~$22,500,000
6 Funded Programs obtained for institution through federal, congressional appropriations funding ~$28,000,000
1 Patent (Issued 9/18/07)
2 Invention Patent Disclosures submitted (2013)

Vitae

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CURRICULUM VITAE

Larry Fredrick Lemanski

CURRENT POSITIONS
Texas A&M University-Commerce, TX
Distinguished Research Professor and Head, Department of Biological and Environmental Sciences (2013-present)
Texas A&M University-Commerce Institutional Official
Founding Executive Director and Chief Research Officer, Division of Research (2012-2013)
Provost and Vice President for Academic Affairs (2009-2012)
Professor (tenure), Department of Biological and Environmental Science (2009-present)

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E-mail: larryflemanski@gmail.com

PERSONAL

Marital Status:	Married to Sharon L. Lemanski
Children:	Scott F. Lemanski, J.D. (Attorney, Corpus Christi, Texas)
	Jennifer L. Lemanski-Monaco, Ph.D. (Tenured Associate Professor of Communications, University of Texas Pan American, Edinburg, Texas)

EDUCATION

INSTITUTION AND LOCATION	DEGREE
University of Wisconsin, Platteville, WI	B.S., Biology (with Honors)
Arizona State University, Tempe, AZ	M.S., Zoology
Arizona State University, Tempe, AZ	Ph.D., Zoology
University of Pennsylvania, Philadelphia, PA	Postdoctoral, Cell Biology

EXECUTIVE TRAINING
Harvard University, Cambridge, MA, Graduate School of Education, the Harvard Institutes for Higher Education, and Institute for Educational Management (intensive summer training session for university executives, 2010)

FELLOWSHIPS
- NIH Predoctoral Fellowship, Arizona State University
  Dr. E.M. Bertke (Sponsor)
- NIH Postdoctoral Fellowship, University of Pennsylvania
  Dr. Lee D. Peachey (Sponsor)
- Muscular Dystrophy Association Postdoctoral Fellowship, University of Pennsylvania. Dr. Lee D. Peachey (Sponsor)

- American Heart Association Established Investigator Award, University of California, San Francisco
- American Heart Association Established Investigator Award, University of Wisconsin, Madison

ACADEMIC/FACULTY POSITIONS

1975-1977	Assistant Professor of Anatomy - University of California Medical Center, San Francisco
1977-1979	Assistant Professor of Anatomy - University of Wisconsin, Madison
1977-1979	Affiliate Assistant Professor of Animal Biology, College of Agriculture, University of Wisconsin, Madison
1979-1981	Associate Professor of Anatomy (tenure), College of Medicine, University of Wisconsin, Madison
1979-1981	Affiliate Associate Professor of Animal Biology, College of Agriculture, University of Wisconsin, Madison
1981-1983	Professor of Anatomy (tenure), College of Medicine, University of Wisconsin, Madison
1981-1983	Affiliate Professor of Animal Biology, College of Agriculture - University of Wisconsin, Madison
1983-1997	Professor (tenure) and Chairman, Department of Anatomy and Cell Biology - State University of New York Health Science Center, Syracuse, New York
1987-1990	Director, Cell and Molecular Biology Program - State University of New York Health Science Center, Syracuse, New York
1987-1997	Research Professor, Department of Biology - Syracuse University, Syracuse, New York
1994-1997	Lecturer, Program in Medical Humanities - State University of New York Health Science Center, Syracuse, New York
1997-2001	Associate Vice President for Research, Office of Research and Graduate Studies, Texas A&M University, College Station, Texas
1997-2001	Professor (tenure), Department of Medical Physiology, College of Medicine, Texas A&M Medical Center, College Station, Texas
1997-2001	Professor, Department of Biology, College of Science, Texas A&M University, College Station, Texas
2001-2007	Vice President for Research, Florida Atlantic University, Boca Raton, Florida
2002-2006	Vice President for Research and Graduate Studies, Florida Atlantic University, Boca Raton, Florida
2002-2006	Dean of Graduate Programs, Florida Atlantic University, Boca Raton, Florida
2001-2007	President and CEO of the Florida Atlantic University Research Corporation, Florida Atlantic University, Boca Raton, Florida
2001-2007	Professor (tenure), Department of Biomedical Science, Florida Atlantic University, Boca Raton, Florida
2001-2007	Professor, Department of Biology, Florida Atlantic University, Boca Raton, Florida
2002-2007	Professor, Department of Chemistry, Florida Atlantic University, Boca Raton, Florida
2004-2007	Volunteer Professor, Department of Cell Biology and Anatomy, University of Miami Miller School of Medicine, Miami, Florida
2007-2009	Senior Vice President for Research and Strategic Initiatives, Temple University, Philadelphia, Pennsylvania
2007-2009	Professor (tenure), Department of Anatomy and Cell Biology, School of Medicine, Temple University, Philadelphia, Pennsylvania
2007-2009	Affiliated Faculty, Cardiovascular Research Center, School of Medicine, Temple University, Philadelphia, Pennsylvania
2007-2009	Professor, Department of Biology, Temple University, Philadelphia, Pennsylvania

2009-2012	Provost and Vice President for Academic Affairs, Texas A&M University-Commerce, Commerce, Texas
2009-present	Professor (tenure), Department of Biological and Environmental Science, Texas A&M University-Commerce, Commerce, Texas
2012-2013	Founding Executive Director and Chief Research Officer for a new Division of Research and Sponsored Programs (which I was charged with creating), Texas A&M University-Commerce, Commerce, Texas
2012-present	Texas A&M University-Commerce Institutional Officer
2013-present	Distinguished Research Professor and Head, Department of Biological and Environmental Sciences, Texas A&M University-Commerce, Commerce, Texas

PROFESSIONAL HONORS, AWARDS AND PRIZES

- Honor Graduate of University of Wisconsin, Platteville
- Named in "Who's Who Among Students in American Universities and Colleges"
- Arizona Academy of Science Research Award
- Electron Microscopy Society of America Presidential Scholarship (for outstanding paper presented by a graduate student)
- Society for the Sigma Xi
- Louis N. Katz Basic Science Research Prize - an award of the National American Heart Association "to an individual who, through basic research, has made the most significant original contribution pertinent to cardiovascular phenomena"
- Established Investigatorship Award from the American Heart Association
- Outstanding Researcher Award, American Heart Association of Wisconsin
- Distinguished International Science Examiner, Bhopal University, India
- Presidential Outstanding Research Award, State University of New York, Syracuse
- Distinguished Alumnus Award, University of Wisconsin, Platteville
- United University Professions/New York State Excellence Award
- President's Award for the Advancement of Affirmative Action - "for having excelled in the attainment of Affirmative Action Goals, the promotion of diversity, and development of innovative approaches and programs to recruit and retain members of underrepresented groups and maintain a multicultural environment", State University of New York
- American Men and Women of Science
- Outstanding Researcher Award, Department of Anatomy and Cell Biology, State University of New York
- Phi Beta Delta—Honor Society for International Scholars
- Elected Fellow, American Association for the Advancement of Science
- The Honor Society of Phi Kappa Phi
- Mathew Romer Foundation “See the Light” Award
- Featured in South Florida CEO Magazine as a Bioscience Leader
- Outstanding Research Leadership Award, Broward County Alliance, Florida
- Research Article “Zhang, C., P. Jia, X. Huang, G.F. Sferrazza, G. Athauda, S.L. Lemanski, D.K. Dube and L.F. Lemanski 2009 Myofibril-inducing RNA (MIR) is essential for sarcomeric tropomyosin expression, the organization of myofibrils and the initiation of cardiac contractile function in Mexican axolotls during development. J. Biomed. Sci., Sept 3, 16:81” selected by Editor(s)-in-Chief of *Journal of Biomedical Science* as a nomination of the 4th Annual Research Awards

- Research article "Zhang, C., P. Jia, Y, Jia, H. Weissbach, K.A. Webster, X. Huang, S.L. Lemanski, M. Achary and L.F. Lemanski 2010 Methionine Sulfoxide Reductase A (MsrA) protects cultured mouse embryonic stem cells from H_2O_2-mediated oxidative stress J. Cell Biochem. 111 (1): 94-103" selected as a featured article by the *Journal of Cellular Biochemistry*
- Research article "Zhang, C., P. Jia, Y. Jia, Y. Li, K.A. Webster, X. Huang, M. Achary, S.L. Lemanski, and L.F. Lemanski 2011 Anoxia, acidosis and intergenic interactions selectively regulate methionine sulfoxide reductase transcriptions in mouse embryonic stem cells. J. Cell. Biochem. 112: 98-106" selected as a featured article by the *Journal of Cellular Biochemistry*
- Elected Fellow, International Society for Design and Process Science (2011)
- Honoris Causa Professorship, Delhi School of Professional Studies and Research, Rohini, Delhi, India Devine Group, Delhi, India (2012)
- Guest of Honor-Inaugural Session.XIII International Seminar on Ethics, Morality and Spirituality, Delhi, India (2012)
- Distinguished Accomplishments in International Science and Education Award, in special recognition of distinguished accomplishments in interdisciplinary thinking with broad impact in biological science, medical research and education, Society for Design and Process Science's (SDPS) Annual Conference, Berlin, Germany (2012)

INVITED WHO'S WHO BIOGRAPHY LISTINGS

- "Who's Who Among Students in American Universities and Colleges"
- Marquis "Who's Who in America"
- Marquis "Who's Who in the World"
- Marquis "Who's Who in American Education"
- Marquis "Who's Who in Medicine and Healthcare"
- Marquis "Who's Who in Science and Engineering"
- American Men and Women of Science
- Swarthmore's "Who's Who in America"
- International "Who's Who of Professionals"
- International Biographical Center **"**Who's Who in the 21st Century"
- Empire "Who's Who Registry of Executives and Professionals"

PROFESSIONAL SOCIETIES

- Beta Beta Beta Biological Sciences Honor Society
- Society for the Sigma Xi Honor Society (former Chapter President)
- The Histochemical Society
- Society for Developmental Biology
- American Society of Zoologists
- American Association for the Advancement of Science (elected "Fellow")
- American Society for Cell Biology
- Electron Microscopy Society of America (President's Award)
- American Heart Association (Peer Review Committees and Research Committee in Wisconsin, New York, Florida, and current member of Peer Review Committee for Texas)
- International Society for Heart Research
- Experimental Biology and Medicine
- American Association of Anatomists (Appointed to the Nominations Committee 1998-2002; elected to National Public Affairs Committee 2001-2004)

- New York Academy of Sciences
- Association of Anatomy, Cell Biology, and Neurobiology Chairs (elected to National Council 1997-2001)
- International Society for Stem Cell Research
- Phi Delta Kappa
- Society for Design and Process Science (elected "Fellow")

BOARDS OF DIRECTORS

- Hiawatha Council, Boy Scouts of America (Board of Directors, 1992-1997)
- Texas Biomedical Research Institute Board of Directors (1997-2001)
- Oak Ridge Associated Universities (Elected to the National Board of Directors 2000-2003; 2004-2007)
- Florida Atlantic University Research Corporation (President and Chairman of the Board 2001-2007)
- Florida Atlantic Development Authority, Inc. (Board of Directors 2001-2007)
- Enterprise Development Corporation (Board of Directors 2001-2007)
- University Alliance for Research, Education and Technology (Board of Directors, 2002-2007)
- Florida Research Consortium (Board of Directors 2001-2007)
- Florida Research Consortium (Executive Committee of Board of Directors, 2002-2006)
- Internet Coast (Board of Directors 2003-2007)
- Mathew Forbes Romer Foundation for Rare Genetic Diseases (Board of Directors, 2003-2007)
- Institute for Human and Machine Cognition (Board of Directors, 2003-2007, State of Florida Governor Appointee)
- Florida NASA Space Institute (Board of Directors, 2004-2007; State University of Florida System Appointee)
- Palm Beach County Business Development Board (Biotechnology Advisory Committee, 2006-2007)
- Institute for Human and Machine Cognition (Science Advisory Board, 2007-present)
- Latin America Grid (IBM International Board of Governors, 2006-2008)
- Keystone Innovation Zone (Board of Directors, 2008-2009)
- Philadelphia Science Center (Board of Directors,, 2008-2009)
- Philadelphia Science Center (Science Advisory Board, 2008-2009)
- Bio Strategy Partners (Board of Directors, 2008-2009)
- Philadelphia Biotechnology and Life Sciences Institute (Board of Directors, 2008-2009)
- Texas Common Course Numbering System (Board of Directors, 2010-2012)

ADMINISTRATIVE EXPERIENCE

1983-1997 Chairperson and Professor, Department of Anatomy and Cell Biology, State University of New York Health Science Center at Syracuse

- Departmental extramural funding increased more than 9 fold during the last ten years I chaired the department
- All faculty I appointed succeeded in obtaining substantial federal extramural grant support.
- The graduate student program increased from 5 students to 25 students; most of the students were funded through a variety of internal and extramural funds.
- Overall, the Department of Anatomy and Cell Biology grew in number (faculty, technicians, secretaries, students, postdoctorals and support staff) from 37 members to 88 members.

- National Board scores in Anatomy at the SUNY Health Science Center (HSC) rose progressively from well below the national average in 1983 to well above the national average in 1997.
- The Department of Anatomy and Cell Biology won the Distinguished Teaching Award for the last nine years in a row that I chaired the department. Prior to my assuming the Chair, the department had never won the award, which was initiated more than 40 years ago. In fact, the year I began as Chair, the department was rated as the worst basic science department on campus in teaching based upon student evaluations and national board scores; when I left it was ranked number 1 in the university on student evaluations and on National Board scores.
- Sponsorship of departmental faculty/staff promotions and awards:
  - eighteen faculty promotions to the Associate and Full Professorial Ranks
  - six faculty received the New York State/United University Professions Award
  - ten faculty received Presidential Awards for Teaching Excellence
  - two faculty members promoted to "Distinguished Professor of the SUNY System"
  - four faculty members received the Statewide Chancellor's Award for Excellence in Teaching
  - two faculty members appointed Director of the Cell and Molecular Biology Program (SUNY Health Science Center, Syracuse)
  - three faculty members appointed Director of the Neuroscience Training Program (SUNY Health Science Center, Syracuse)
  - three faculty members received NIH Research Career Development Awards
  - one faculty member received an AHA Established Investigatorship Award
  - one Postdoctoral Fellow (from my laboratory) received the Alpha Omega Alpha Outstanding Research Award
  - six departmental graduate students (one from my laboratory) received the Alpha Omega Alpha Graduate/Medical Student Research Award
  - four staff members honored with "University Employee of the Month Award"
  - eight graduate students awarded summer fellowships to attend a Woods Hole Oceanographic Institute course
  - one faculty member appointed a Director of the M.D./Ph.D. Program
  - three faculty members (I recruited as Assistant Professors) became Chairs of major medical school departments
  - one faculty member became Research Director of a major research institute at a leading Canadian university (McGill)
- Initiated on campus and served as Program Director for NIH supported interdepartmental multi-user equipment grant to purchase new freeze fracture system for department
- Department cited as the "Best" basic science department and one of three "outstanding" departments (out of 24) by the LCME Site Visit Accreditation Team
- Initiated and served as Principal Investigator on a request to purchase a Laser confocal scanning microscope system for the medical center from a New York State supported multi-user interdepartmental grant
- Initiated on campus and served as Program Director for American Heart Association Campus Wide Medical Student Fellowship Training Grant Program (for support of four medical students per year to do full-time research). Seven of the twenty-two individuals recruited into this program ended up getting combined M.D./Ph.D. degrees.

1987-1990 Director, Cell and Molecular Biology Program, State University of New York, Health Science Center at Syracuse

I initiated the Cell and Molecular Biology Program and secured its funding ($1,500,000) from the Graduate Initiative Program from SUNY Central (in Albany). The Dean of the Graduate School subsequently appointed me as the CMB Program's first director (to be rotated at three-year intervals). It began as a collection of 23 Cell and Molecular Biologists, which I appointed, representing eight different basic science and clinical departments on campus and expanded to include faculty at Syracuse University and SUNY College of Environmental Science and Forestry, Syracuse. It had grown to more than 40 faculty by the time I left Syracuse. The program continued to flourish and form the basis for the Cell and Molecular Biology Graduate and Postdoctoral Training Program at SUNY, Syracuse.

1997-2001; 2000 Associate Vice President for Research, Texas A&M University; Acting Vice President for Research, Texas A&M University, College Station, Texas

As the Associate Vice President at Texas A&M, I was "second in command" of the Office of The Vice President for Research and Associate Provost for Graduate Education and was in charge of the Office when the Associate Provost/Vice President was away. In this capacity, I had significant responsibilities in the overall operation of the research enterprise as well as graduate education at Texas A&M University. The Texas A&M campus in College Station has 9 Colleges plus a Medical School as part of the System Health Science Center as well as several major interdisciplinary research and training programs, forming a very broad and comprehensive university. There were about 2,500 faculty and 45,000 students, including approximately 8,000 graduate and professional students. In FY2000, over $400,000,000 was spent on research activities at Texas A&M (number 10 in the nation); in one way or another, my office was responsible for the administration of this research. Specific duties and accomplishments as Associate Vice President for Research and Acting Vice President for Research:

- Responsible for the Office of Sponsored Projects including administration of grants, contracts, intellectual property and related activities
- Supervised the University Veterinarian and had responsibility for the Laboratory Animal Resources and Research Facilities on campus
- Administered and chaired the peer review panels for four faculty enhancement grant programs at Texas A&M: 1) Scholarly and Creative; 2) Energy Resources (state of Texas); 3) Interdisciplinary and 4) Faculty mini-grant program
- Arranged and made commitments for university matching funds for major grants submitted by faculty (e.g., NSF-Science and Technology grants, NIH equipment grants or National Endowment for the Humanities, National Education Association, etc.)
- Initiated on campus, electronic research administration for our internal grants programs and reviewed ways to get our campus on line for the upcoming electronic grant submission requirements of various private and government agencies (NIH, NSF, NASA, AHA, etc.)
- Took a lead state-wide in Texas in setting up the TRUF (Texas Research University Forum) which involved organizing the research administrators and faculty of the University of Texas, Texas A&M, University of Houston and Texas Tech University. A major purpose of the organization was to determine "common" concerns and goals of these four major state-supported research universities and to articulate these goals to the Texas legislature through our University Administrators.
- For admission to AAU (American Association of Universities), I wrote a synopsis of the history and accomplishments of Texas A&M University. The document was entitled: "Texas A&M: A Prospectus". I was told that this document was a major factor in Texas A&M gaining admission into the American Association of Universities (AAU). It also served to keep an updated record of significant accomplishments of the faculty, staff, students and university.

- Put together a major university-wide survey concerning the effectiveness of our faculty enhancement grant programs with respect to faculty productivity as well as the leveraging of funds from extramural sources
- Initiated a major effort to significantly increase funding for faculty/student research in all areas. For example, areas which were particularly neglected in the past at Texas A&M were the scholarly and creative activities. These activities were underfunded and I worked very hard to increase funding to enhance the opportunities for liberal arts faculty to pursue scholarly and creative works (finish writing books in progress, do archival research, perform in and direct plays, etc.).
- Served on the Texas A&M President's "Vision 2020 Task Force". This was a university-wide committee to develop a plan to make Texas A&M University a "top 10" university overall by the year 2020. I served as the "facilitator" for the subgroup on graduate education.
- Appointed membership on and had responsibility for several of the research compliance committees at Texas A&M. These included: Institutional Review Board for Human Subjects (IRB), University Laboratory Animal Care Committee (ULACC), and the University Committee on Hazardous Biomaterials (UCHB).
- Involved in developing and applying the Rules and Standard Administrative Procedures (SAPS) when dealing with issues of academic misconduct (fraud, plagiarism, etc.)
- Responsible for overseeing and resolving cases of academic misconduct, plagiarism, fraud, etc. working with research standards officers as assigned by the Provost or Vice President for Research
- Gave instruction to faculty, staff and graduate students on ethics, academic/research standards and misconduct as part of the new faculty and new graduate student orientations
- Hosted various national and international delegations of visitors to campus. Usually gave a welcoming speech and overview of research activities at Texas A&M as well as host lunches or dinners.
- Involved in conducting and hosting external reviews of various interdisciplinary graduate programs on campus
- Administrative Member, The University Research Infrastructure Committee. This committee analyzed and made recommendations to the University Provost and President concerning which areas of research should be funded.
- National Sub-Committee on Electronic Research Information for the Federal Demonstration Partnership, National Academy of Sciences
- Texas A&M University Councilor to the Oak Ridge Associated Universities Council
- Science and Technology Partnership Committee of Oak Ridge Associated Universities
- Served as the Texas A&M University representative for the Government, Industry and University Research Roundtable (GUIRR), Washington, DC.
- Texas A&M University representative to the Texas Society for Biomedical Research
- Board of Directors, Texas Society for Biomedical Research
- Board of Directors, Oak Ridge Associated Universities (a consortium of 100 national universities headquartered in Oak Ridge, Tennessee), elected to first term, 2000-2002
- Frequently represented Texas A&M University on the Board of Directors of the Houston Advanced Research Corporation (HARC)
- Chaired the University Advisory Committee that oversees the Texas A&M University Electron Microscopy and Imaging Center and Chaired the Hiring Committee and recruited the Director
- Instrumental in organizing "The Michael DeBakey Comparative Cardiovascular Science and Biomedical Devices Institute" at Texas A&M University in College Station, Texas
- Coordinated the organization of a new "Microencapsulation and Drug Delivery Center" by putting together components of NASA, Texas A&M and Private Industry into a cooperative new Research Center on campus to conduct basic research as well as have commercially significant applications

- Helped to coordinate an effort to set up a new computer artificial intelligence research center involving reasoning and creative activities
- Served as the Texas A&M Representative on the Bryan/College Station Chamber of Commerce to plan for "Exposition 2000"
- Traveled to China to help set up an exchange program with Nanjing Medical University and the Shanghai Institute

2001-2007 **Vice President for Research, Florida Atlantic University, Boca Raton, Florida**
Vice President for Research and Graduate Studies (2002-2006)
President of the Florida Atlantic University Research Corporation
Dean of Graduate Programs, Florida Atlantic University, Boca Raton, Florida (2002-2006)
Professor of Biomedical Science (tenure)
Professor of Biology
Professor of Chemistry
Professor (Volunteer) of Cell Biology and Anatomy, University of Miami Miller School of Medicine

Upon coming to Florida Atlantic University, I created a new Division of Research and Graduate Studies, incorporating the Offices of Graduate Recruitment and Admissions, Graduate Studies, Pre-Award, Post-Award, Sponsored Research, Contracts and Grants, Technology Transfer and the Florida Atlantic University Research Corporation. In addition, I initiated and helped to establish a Graduate faculty and as well as the positions of Associate Vice President for Research and Dean of Graduate Studies.

- The sponsored project funding increased more than 260% during the last five years of my tenure as the Vice President for Research at FAU (from ~$35,000,000/year to ~$92,000,000/year)
- Oversaw all aspects of research and graduate studies at Florida Atlantic University's seven campuses (26,000+ students)
- Oversaw offices of the Vice President for Research, Grants and Contracts, Sponsored Research, Technology Transfer, Graduate Studies, Graduate Recruitment and Admissions and the FAU Research Corporation
- Two new Ph.D. programs I promoted were approved (Integrative Biology and Educational Counseling) by the Florida Board of Education, Tallahassee (2003)
- Several new master's degree programs under my watch as Vice President for Research and Graduate Studies were approved
- Dissertation Grant Program established for graduate students
- Increased funding for tuition waivers and stipends across several Colleges at FAU
- Responsible for creating the graduate faculty at FAU
- Helped create new full-time state-funded position of Dean of Graduate Programs at FAU (working in collaboration with the Provost)
- Oversaw the 42 Research Centers at FAU
- Oversaw the development of projects for earmark or other special federal funding consideration. This includes frequent trips to Washington, D.C. to meet with U.S. Senators, Representatives and their staff members to discuss funding and other issues related to FAU.
- Served on the Florida Atlantic University President's Executive Committee where I participated in decision-making at the highest university administrative level

- Oversaw and negotiated research memoranda of understanding among FAU and other universities, governmental and private agencies and industry
- Represented Florida Atlantic University at the University Alliance for Research, Education and Technology on the Education Committee
- Represented Florida Atlantic University at the University Alliance for Research, Education and Technology on the Board of Directors
- Represented Florida Atlantic University as a Councilor of the Oak Ridge Associated Universities, Inc.
- Represented Florida Atlantic University as a National Board of Director's member for the Oak Ridge Associated Universities (re-elected to second term of National Board of Directors in 2004-2006)
- Oversaw and promoted faculty collaborations in creating interdisciplinary research project application for state, federal and private funding
- Represented Florida Atlantic University as a Board of Directors Member, Enterprise Development Corporation of South Florida
- Established and initially chaired the Intellectual Property Committee for Florida Atlantic University
- Chaired the Search Committee for the Dean of Science
- Made final decisions on patents that the University would support through the Technology Transfer Office
- Created "spin-off" companies through the Florida Atlantic University Research Corporation, Inc. to commercialize faculty members' discoveries and patents
- Served on the Board of Directors for the Florida Research and Development Authority Research Park to promote synergistic interactions between research park tenants and Florida Atlantic University
- Promoted, negotiated and facilitated interuniversity, government and industrial partnerships in research endeavors (e.g., coordinated a cooperative venture among Florida Atlantic University, Harbor Branch Oceanographic Institute (Private) and the Smithsonian Institution (Federal) to obtain $10 million in State funding; promoted several other similar partnerships. This $10 million initiative was funded in December, 2003, and has since leveraged an additional $32 million and spun out 4 start-up companies.
- Gave numerous speeches to numerous local groups (University Club, Rotary Club, Zonta Club, American Heart Association, Faculty Club, etc.) as well as visitors to the FAU Campus and Research Park about scholarly activities at FAU
- Traveled to Japan to set up international research collaborations and exchange programs for faculty and students
- Coordinated Centers of Excellence applications for the State of Florida Research Commission
- Executive Committee Member, Board of Directors for State of Florida Research Consortium (2002-2007)
- Established faculty enhancement programs to fund various research initiatives and to stimulate research activities at FAU
- Served as Administrative Head and Principal Investigator of $10,000,000 State of Florida Center of Excellence Grant (only 3 awarded in state out of 16 applications). (Note: this grant yielded more than $32,000,000 in leveraged additional funding during my tenure at FAU).
- Created a new position at FAU for the Associate Vice President for Research
- Worked closely with Governor Jeb Bush's Economic Development Group and President Brogan of FAU to help bring Scripps Research Institute to the FAU Campus in Palm Beach County and to help establish major affiliations with FAU (joint faculty appointments, joint grants, FAU graduate students and postdoctoral fellows, etc.).
- Responsible for FAU affiliations with the University of Florida and Nova Southeastern University to form a consortium with the United States Geological Survey (USGS) in South Florida

- Served as State of Florida Governor's appointee to the Board of Directors for the Institute for Human and Machine Cognition (IHMC)
- Oversaw initial negotiation trip for State of Florida and FAU faculty/staff to visit Scripps in San Diego to set up collaborations with Scripps for the new Scripps Institute in Florida
- Worked with local and national lobbyists and Congress to bring more than $28,000,000 in federal appropriation funding to FAU
- Speaker and panelist for trade/research mission to Germany and Switzerland with Governor Jeb Bush and Enterprise Florida to set up collaborations with University of Basil, Switzerland and the Max Planck Institute, Germany. Was instrumental in helping to bring a Max Planck Institute to the Florida Atlantic University campus in Jupiter, Florida.
- Trade/research mission to United Kingdom with Governor Jeb Bush and Enterprise Florida to set up collaboration with Oxford University, Cambridge University, Imperial College, London, and the University of Edinburgh
- Coordinator, Florida State University System, Vice Presidents for Research Committee to evaluate research avenues for universities in Florida
- State-wide Co-Chair of Summit and Master of Ceremonies for the Keynote Luncheon Lecturer for the Florida Center for Universal Research to Eradicate Disease (CURED), Meeting of the Minds—Research for New Insights and Innovative Cures
- International Board of Governor's Appointee to the IBM Latin American Grid (LA Grid) for the advancement of Latinos from the USA, Spain, South America and Mexico in computer science and engineering
- Traveled to India to set up collaboration and exchange programs between FAU and several universities in India including the Indian Institute of Technology in New Delhi, Nirma University, the University of Rajasthan, Deepshika College of Technology, Mahatma Ghandi Medical College and Hospital, and several others
- Traveled with the Florida Israel Institute and Enterprise Florida to Israel to set up collaboration and exchange programs with several universities and institutes including the Weizmann Institute of Science, University of Haifa, Ben-Gurion University and others

2007-2009 **Senior Vice President for Research and Strategic Initiatives, Temple University, Philadelphia, Pennsylvania**
Professor, Department of Anatomy and Cell Biology
Professor, Department of Biology
Member, Cardiovascular Research Center

- Oversaw all aspects of research at Temple University
- Served on the Promotion and Tenure Committee
- Served on the Faculty Leave Committee
- Co-chaired the Research Infrastructure Group of the Academic Planning Committee to develop the strategic plan for Temple University
- Developed a reorganization and budget plan for the Office of Senior Vice President for Research and Strategic Initiatives
- Served on the Philadelphia Science Center Board of Directors
- Served on the KIZ (Keystone Innovative Zone) Board of Directors
- Served on the Bio Strategy Partners Board of Directors
- Served on Philadelphia Biotechnology and Life Sciences Institute Board of Directors

- Served on the Institute for Human and Machine Cognition (IHMC), Pensacola, FL, Science Advisory Committee
- Expanded Technology Transfer Office to Office of Technology Transfer and Entrepreneurship
- Conducted search for and hired Director for Technology Transfer Operations and Entrepreneurship
- Appointed a new Executive Assistant/Coordinator
- Participated in "Temple on the Road" in Los Angeles, New York, Harrisburg, Washington, DC
- Significantly expanded the Office of Technology Transfer and Strategic Initiatives
- Established Technology Transfer Industry Advisory Committee (TTIAC) composed of experts outside of the university (CEOs, CFOs, entrepreneurs, etc.) to serve as advisors on technology transfer and entrepreneurship activities
- Established the Committee of Associate Deans, a university-level committee composed of the college-level Associate Deans for Research, to act as laisons between the Colleges and the Office of Research and Strategic Initiatives as well as an advisory committee
- Oversaw the development of projects for earmark or other special federal funding consideration. This included frequent trips to Washington, D.C. to meet with U.S. Senators, Representatives and their staff members to discuss funding and other issues related to Temple.
- Served on Temple University President's Executive Committee where I participated in decision-making at the highest university administrative level
- Coordinated development of interdisciplinary proposals
- Participated in review and selection of lobbying firm to represent Temple
- Frequently met with federal and state agency representatives (i.e.—NIH, NSF, Department of Energy, etc.)
- Met with non-Temple individuals, groups or private agencies to discuss research interests
- Hosted group from Mahatma Ghandi Medical University and arranged to have Temple Deans visit India to set up collaborations
- Hosted faculty and administrative group from City College of New York to set up collaborations with Temple
- Set up and chaired six different interdisciplinary workshops with Temple faculty to promote collaborative interactions among faculty with similar interests from the different disciplines. This formed a basis for several major federal appropriation and federal agency proposals.
- Attended numerous networking events
- Worked with the Office of Communications and Media Relations to promote dissemination of information about Temple research
- Oversaw and provided training on research and compliance issues to university faculty, students and staff
- My office developed and established electronic research administration throughout Temple University.
- My office provided electronic research administration training (eRA@TU training).
- Offered Temple Research Flash, the electronic bi-weekly research newsletter sent to all faculty, graduate students and select administrative staff
- My office developed an electronic research magazine published quarterly.
- My office wrote and produced the annual research publication for the university "Focus on Research".
- Gave speeches and presentations to various groups inside and outside of the university to showcase research at Temple University
- J&J Biotech Symposium PowerPoint presentation and panel discussant
- Division provided information sessions and workshops on grant writing and entrepreneurship

- Invited and hosted representatives from NSF, NIH and other agencies to present workshops on grant writing and funding opportunities
- Served as panel chair and moderator at Women in Medicine's "How to Grow a Research Center in Clinical and Basic Science". My office arranged for NIH and NSF Directors to come to be on panel.
- Made opening and concluding remarks to site visit team and participated in various meetings for the AAALAC site visit which resulted in full international accreditation of Temple's Animal Resources Center
- Established the Temple University "Faculty Research, Scholarly and Creative Awards Program" to stimulate new externally fundable projects
- Established the Temple University "Faculty Bridge Grant Program" for faculty members between grants to increase the likelihood of success in renewal grant applications
- Instituted university-wide "Temple Research Week" to feature research, scholarly and creative activities across the university. Organized many events including the 2008 Nobel Laureate in Chemistry, Dr. Martin Chalfie, as Keynote Speaker.
- Created the Temple "Creative Arts, Research and Scholarship Program (CARAS)" in collaboration with the Provost's Office and the Deans. This new program, instituted in 2009, was designed to fund undergraduate research projects so that undergraduate and professional students have the opportunity to work on research, scholarly and creative works with individual faculty mentors.
- Initiated the development of the "Temple University Venture Center" to spin out new start-up companies and guide these companies through successful development
- Proposed the development of a business incubator in vacant space in Temple's former Dental School Building
- Made presentation at University-Industry-NSF joint meeting to have Temple take lead on NSF grants to promote university/industry collaborations. The NSF selected Temple as the funded Center.
- Made presentation at NIH-NCI site visit team for the Center for Asian Health Grant
- Made presentation at SILC site team visit by NSF; grant was funded for 5 years at a total value of $18 million dollars
- Proposed the creation of the "Temple University Outstanding Scholars" program to honor outstanding faculty members for their research, scholarly and creative contributions
- Made presentations to the Ben Franklin Technology Authority of Pennsylvania—a $1.6 million dollar grant was awarded for faculty research

2009-2012 **Provost and Vice President for Academic Affairs, Texas A&M University-Commerce, Commerce, Texas**
Professor, Department of Biological and Environmental Science

- Oversaw all aspects of Academic Affairs at Texas A&M University-Commerce
- Created two new Colleges at Texas A&M University-Commerce
- Supervised:
    - Dean of Science, Engineering and Agriculture
    - Dean of Humanities, Social Sciences and Arts
    - Dean of Business and Entrepreneurship
    - Dean of Education and Human Services
    - Vice Provost for Research and Dean of Graduate Studies
    - Director of the Library
    - Associate Provost for Administration and Chief of Staff

  - Associate Provost for Institutional Effectiveness and Planning
  - Associate Vice President for Global Initiatives
  - Associate Vice President for Diversity and Equal Opportunity
- Created new Nursing School at Texas A&M University-Commerce
- Participated in the Chief Academic Officer meetings for Texas A&M University system
- Participated in the Board of Regents meetings for Texas A&M University system
- Hosted a monthly "Open Forum with the Provost" for general discussion of university issues
- Hosted monthly Department Head Luncheons to discuss university-wide administration issues
- Participated in making periodic power point presentations at the "University Update" for the entire university community
- Proposed and led the efforts through the appointment of a task force to analyze the efficacy of creating two new colleges at Texas A&M University-Commerce
- Led efforts to establish Multiple Institution Teaching Center (MITC) with Tarleton State University and Navarro Community College
- Working with the President, established policy at the university of having a Graduate Student speaker at each graduate commencement
- Led efforts to develop a new Construction Engineering Program
- Led efforts to establish new MS program in Computational Science
- Leading efforts to develop a new center and multi-track Ph.D. program in Computational Science
- Led efforts to develop new Master of Arts/Science Degree Program in Applied Criminology
- Led efforts to develop new Master of Science Degree Program in Accounting
- Led efforts to develop new Bachelor of General Studies Degree Program
- Led efforts to develop new Master of Science Degree Program in The Art of Teaching
- Initiated and led efforts to create a new Bachelor of Science Degree in Nursing at TAMU-Commerce (to begin January 2013)
- Led effort to change appointments of qualified library staff to Library Faculty status
- Led efforts and served on the initial Texas Higher Education Coordinating Board Task Force to plan the Texas Affordable Baccalaureate degree program (in progress) (TAMU-Commerce is now on a grant subcontract to develop this program.)
- Keynote speaker, Phi Delta Kappa Annual Banquet, Rockwall, TX (May, 2010)
- Plenary keynote speaker, Society for Design and Process Science International Conference, Dallas, TX (June, 2010)
- Established and host annually the Provost Outstanding Research Award Program for university
- Established and host each semester a ceremony for the Texas A&M University System Teaching Excellence Awards
- Participated in setting up international instructional programs and exchange programs
- Proposed and led efforts to create the new College of Science, Engineering and Agriculture (CSEA) at Texas A&M-Commerce
- Recruited and appointed an interim Dean and more recently via a national search a permanent Dean for the College of Science, Engineering and Agriculture
- Proposed and led efforts to create the new College of Humanities, Social Sciences and Arts (CHSSA) at Texas A&M University-Commerce
- Recruited and appointed an interim Dean and more recently via a national search a new permanent Dean of the College of Humanities, Social Sciences and Arts
- Created the new position of Associate Vice President for Global Programs and recruited an outstanding individual to fill this position

- Created the new position of Associate Vice President for Diversity and Equal Opportunity and nationally recruited an outstanding individual to fill this position
- Created the new position of Vice Provost for Research and Dean of Graduate Studies and nationally recruited an outstanding individual to fill this position
- Created the new position of Associate Provost for Institutional Effectiveness and Planning and nationally recruited an outstanding individual to fill this position
- Initiated the expansion of the A&M Commerce Equine Sciences Program to include the building of a new covered riding arena
- Expanded the Equine Sciences Program with the intent of offering an undergraduate major in Equine Sciences
- Promoted an effort to establish a competitive Collegiate Rodeo Team at the University.
- Established over 30 new permanent faculty lines to accommodate the rapid growth in enrollment of Texas A&M University-Commerce over the last two years as Provost

2012-2013 **Founding Executive Director and Chief Research Officer, Division of Research, Texas A&M University-Commerce, Commerce, Texas**
Professor, Department of Biological and Environmental Sciences
Institutional Official for Texas A&M University-Commerce

Charged to create a new Office of Research and Sponsored Programs to move Texas A&M University-Commerce to a top-level regional university in research productivity, funding and research stature. Successfully accomplished this undertaking, established a new Associate Provost for Research and Sponsored Programs position and filled this position through a national search.

2013-present **Distinguished Research Professor and Head, Department of Biological and Environmental Sciences**
Institutional Official for Texas A&M University-Commerce

Will be in charge of advancing and expanding the Department and upgrading the teaching and research programs.

UNIVERSITY COMMITTEE ASSIGNMENTS

- University of California, San Francisco
  - Student Welfare Committee (Member)
  - Academic Senate (Member)
- University of Wisconsin
  - Executive Committee (Member)
  - Space Committee (Member)
  - Seminar Committee (Chairperson)
  - Medical Student Orientation Facilitator (Chairperson)
  - Chairman's Ad Hoc Committee (Member) - to re-evaluate departmental mission
  - Graduate Admissions Committee (Member)
  - Teaching Assistantship Committee (Member)
  - Pathology and Laboratory Medicine Departmental Chairperson Search Committee (Member)
  - Departmental Research Committee (Chairperson)
  - Medical School Faculty Awards Committee (Member)
  - Medical School Student Awards Committee (Member)

- State University of New York, Health Science Center
  - University Space Utilization Committee (Chair)
  - Institutional Review Board for Protection of Human Subjects (Member)
  - First Year Grades Committee (Member, Chairperson)
  - Student Academic Promotions Committee (Member)
  - Task Force for Curriculum Revision (Member)
  - Pediatric Chairman Search Committee (Member)
  - Pharmacology Chairman Search Committee (Chairperson)
  - Finance and Facilities Committee (Member)
  - Presidents Executive Council (Member)
  - Presidential Inauguration Committee (Member)
  - Teaching and Research Program Planning Committee (Chairperson)
  - Urology Chairperson Search Committee (Member)
  - Cell and Molecular Biology Director Search Committee (Chairperson)
  - Neuroscience Program Director Search Committee (Member)
  - Presidents Long-Range Planning-Steering Committee (Member)
  - College of Medicine Executive Committee (Member)
  - Tenure and Promotions Committee (Member)
  - Graduate Council (Member)
  - Medical Student Applicant Interview Committee (Member)
  - Family Medicine Chairperson Search Committee (Member)
  - SUNY Distinguished Professorship Selection Committee (Member)
  - Physiology Steering Committee and Chair Search Committee (Chairperson)
  - Obstetrics and Gynecology Chair Search Committee (Member)
- Texas A&M University
  - Interdisciplinary Planning and Oversight Committee (Ex Offico Member)
  - Research Infrastructure Committee (Ex Officio Member)
  - Committee to Ensure and Project the Quality of Texas A&M University (Chair)
  - College of Medicine Task Force to Examine Research Issues Special Relationship with Texas A&M University (Member)
  - Vision 2020 Committee, Graduate Studies Working Theme Group (Facilitator)
  - Search Committee for Associate Dean for Research, College of Veterinary Medicine (Member)
  - University Electron Microscopy and Imaging Center Advisory Committee (Chair)
  - Program Review Committee to Evaluate the Race and Ethnic Studies Institute at Texas A&M (Chair)
  - Scholarly and Creative Faculty Enhancement Program (Chair)
  - Energy Resources Research Committee, State of Texas (Chair)
  - Interdisciplinary Research Committee Enhancement Program (Chair)
  - Texas Research University Forum (TRUF) (Member, Coordinator)
- Florida Atlantic University
  - Search Committee for the Dean of Science (Chair)
  - Special Committee to evaluate possible misconduct (Chair)
  - President's Executive Committee (Member)
  - President's Cabinet (Member)
  - Intellectual Property Committee (Chair)
  - President's Commission on Diversity (Member)
  - Silver Jubilee (Member)
  - Advisory Group for the FAU Athletic Director Search (Member)

Search Committee for the Provost
Co-Chair (with Provost) of Subcommittee on Research for Strategic Plan
Chair, American Heart Association Walk-a-thon for FAU

- Temple University
  Tenure and Promotion Committee
  Faculty Leave Committee
  Research Infrastructure Group of the Academic Planning Committee (Co-Chair)
  President's Cabinet (Member)
- Texas A&M University-Commerce
  President's Advisory Committee
  Deans' Council (Chair)
  University Executive Committee
  Faculty Recruitment and Retention Task Force (Texas A&M University System Central Administration)
  University Strategic Leadership Team (Chair)

FUNDRAISING/FUND GETTING (excludes personal research grant awards which are listed on pages 30-34)

♦ Dr. Camillo Benzo Memorial Fund	$28,000
♦ Chair of FAU American Heart Association Walkathon	$14,000
♦ SUNY Graduate Research Initiative	$1,200,000
♦ Matching Fund Private Donor Gift for Endowed Chair	$1,050,000
♦ Coordinated and served as Principal Offeror on Florida Center of Excellence Application in Medical and Marine Biotechnology	$10,000,000
♦ Principal Offeror on Florida Center of Excellence application in Ocean Energy Technology	$5,000,000
♦ Coordinator of Earmark and related government agency funding during last four years at Florida Atlantic University	$28,000,000
♦ Established Office of Corporate Relations in the Division of Research at Florida Atlantic University to promote advancement for Research Enterprise	
♦ Research funding at Florida Atlantic more than tripled during my tenure as VP for Research (from $30,000,000 to more than $92,000,000/year)	
♦ Involved in fundraising and developing federal appropriation funding requests at Temple University	
♦ Participated in Temple University faculty member receiving state funding for environmental projects	$5,000,000
♦ Participated in Temple University faculty member receiving state funding for water resource environment research	$1,600,000
♦ Administrative sponsor for the NSF Industry University Cooperative Research Center Program Grant awarded to faculty member for Water and Technology Center at Temple University	$500,000
♦ Participated in Congressional Directed appropriation to Texas A&M University-Commerce	$800,000
♦ Participated in acquiring gifts to Texas A&M-Commerce from the L-3 Corporation	$25,000

TRAINING GRANT/PROGRAM MEMBERSHIP

- Developmental Biology NIH Training Grant Faculty, University of Wisconsin
- Cellular and Molecular Biology NIH Training Grant Faculty, University of Wisconsin
- Director, Cell and Molecular Biology Training Program, State University of New York Health Science Center at Syracuse
- Program Director, American Heart Association Medical Student Research Fellowship Program, State University of New York Health Science Center at Syracuse
- Executive Committee, Cell and Molecular Training Program, State University of New York Health Science Center at Syracuse
- Cardiovascular Biology Training Grant application, College of Medicine, The Texas A&M System Health Science Center, College Station

PROFESSIONAL SERVICE

- Manuscript referee for the following journals:
  - Asian Journal of Science (American editor)
  - CRC Press, Inc., Book Proposal Reviews
  - Developmental Biology
  - Science
  - International Scanning Electron Microscopy Symposium
  - Canadian Journal of Experimental Zoology
  - Tissue and Cell
  - Journal of Cell Biology
  - Journal of Experimental Zoology
  - Scanning Electron Microscopy
  - Experimental Cell Research
  - Anatomical Record
  - American Journal of Anatomy
  - Journal of Morphology
  - Acta Anatomica
  - Proceedings of the National Academy of Science
  - Journal of Biological Chemistry
  - Anatomy and Embryology
  - MDmedica (International Editorial Board)
- Grant referee for the following organizations:
  - National Foundation March of Dimes
  - National Science Foundation
  - Bay Area Heart Association, San Francisco, California
  - National Institutes of Health
  - American Heart Association of Wisconsin
  - American Heart Associate (New York Affiliate)
  - American Heart Association (Florida Affiliate)
  - National Veteran's Administration Regular Substantive Reviewer
  - NIH Directors Roadmap Review Committee
  - Arizona Disease Control
  - American Heart Association (Past National Review Panel Co-Chair)
  - American Heart Association National Review Panel Chair (Current)
- National Symposium Organizing Committee, Electron Microscopy Society of America

- Program Committee, Electron Microscopy Society of America
- Research Committee, American Heart Association of Wisconsin
- American Editor, Asian Journal of Experimental Sciences
- NIH Scientific Review Groups, Cardiovascular Diseases (ad hoc) and several special Study Sections for RFAs (ad hoc)
- Member, American Society for Cell Biology United States Congressional Liaison Committee for Scientific Research
- Member, Cardiovascular A Study Section, National Institutes of Health, Bethesda, Maryland
- Vice President, The Society of the Sigma Xi, Scientific Research Society, Syracuse Chapter
- President, The Society of the Sigma Xi, Scientific Research Society, Syracuse Chapter
- Coordinator, 25th Congressional District, American Society for Cell Biology United States Congressional Liaison Committee for Scientific Research
- Member, American Heart Association Peer Review Panel, New York State Affiliate
- Member, Research Committee, American Heart Association, New York State Affiliate
- Member, National Curriculum Committee, American Association of Anatomy, Cell Biology and Neurobiology Chairpersons
- Northeastern Region Delegate, National Meeting, Society for the Sigma Xi
- Teller, National Meeting, Society for the Sigma Xi, New Orleans
- Chairperson, Special Study Section, National Institutes of Health
- Executive Council, Association of Anatomy, Cell Biology and Neurobiology Chairpersons
- NIH Mock Study Section Panel, FASEB Meeting, San Francisco, California
- Government, University, Industry Research Roundtable (Texas A&M University substitute representative)
- Texas Society for Biomedical Research (Board of Directors)
- Oak Ridge Associated Universities Councilor
- Member, Technical Review Panel, Cancer and Smoking Disease Research Program, State of Nebraska
- Member, Review Panel, Arizona Disease Control Research Commission, Phoenix, AZ
- Oak Ridge Associated Universities (National Board of Directors)
- National Public Affairs Committee, American Association of Anatomists
- Enterprise Development Corporation of South Florida (Board of Directors)
- University Alliance for Research, Education and Technology (National Board of Directors)
- Internet Coast, Inc. (Board of Director)
- American Heart Association (Florida/Puerto Rico Affiliate) Peer Review Committee
- American Heart Association (Florida/Puerto Rico Affiliate) Research Committee
- American Heart Association Annual Gala Committee (Boca Raton)
- Institute for Human and Machine Cognition (Board of Directors—State of Florida Governor Appointee)
- American Heart Association Walk-a-thon for FAU (Chair)
- NIH Director's Roadmap Peer Review Panel Member to review National Center Grant applications
- Enterprise Florida/Team Florida—speaker and panelist for trade/research mission to Germany and Switzerland with Governor Jeb Bush and Enterprise Florida
- Enterprise Florida member for trade/research mission to The United Kingdom
- Florida Council on Universal Research to Eradicate Disease (Summit Co-chair)
- IBM Latin American Grid (International Board of Governors)
- Institute for Human and Machine Cognition (Science Advisory Committee)
- Saudi Arabia National Energy Grant Program (Reviewer)
- Philadelphia Science Center (Board of Directors)

- Keystone Innovation Zone (Board of Directors)
- Bio Strategy Partners (Board of Directors)
- MDMedica Journal (International Editorial Board)
- Texas Council of Chief Academic Officers (Member)
- Texas A&M University Chief Academic Officers (Member)
- Texas Common Course Numbering System (Board of Directors)
- National American Heart Association Peer Review Committee (Past Co-Chair, Current Chair and Member)

MILITARY, SOCIAL AND COMMUNITY ACTIVITIES

- Active and reserve service as a United States Army Enlisted Man and Commissioned Officer
- Discussed heart research on nationally syndicated radio program "Man and Molecules," originating in Washington, D.C.
- Boy Scouts of America Volunteer Leader. Served as Troop Committee Chairman, Assistant Scoutmaster, Scoutmaster, District Training Committee Chairman, Council Training Chairman (responsible for the training of all Boy and Cub Scout Leaders in the Syracuse and surrounding metropolitan area)
- Served on the Executive Board of the Boy Scouts of America, Hiawatha Council, Syracuse, New York
- Served on the National Jamboree Physical Arrangements Staff in Fort A.P. Hill, Virginia, led three 50-100 mile high adventure wilderness treks through the Adirondack Mountains, Sabattis, New York and two through the Boy Scout National High Adventure Base in the Rocky Mountains at Philmont, New Mexico. Also, served as an Adult Volunteer Leader at the Boy Scout National Order of the Arrow Conference in Bloomington, Indiana
- Honors as a volunteer scouter include: The Scouters Key, District Award of Merit, Outstanding Troop Committee Chairman Award (from Kiwanis Club), Woodbadge Training Award
- Board of Directors, Hiawatha Council, Boy Scouts of America
- Master Mason (Third Degree)
- Palm Beach County Business Development Board Biotechnology Task Force
- Boca Raton Roundtable
- Chair, American Heart Association Annual Heart Walk at Florida Atlantic University
- Member of Community Garden Club, Commerce, Texas
- Discussed research activities on KETR Radio, Texas A&M University-Commerce, Texas

TEACHING EXPERIENCE

- General Zoology, 5 cr. Teaching Assistant, Department of Zoology - Arizona State University (two semesters and one summer)
- Anatomy and Physiology, 4 cr. Teaching Assistant, Department of Zoology - Arizona State University (2 semesters)
- Embryology, 4 cr. Guest Faculty, Department of Zoology - Arizona State University. Course director (summer)
- Theory and Methods in Electron Microscopy, 2 cr. Department of Biology - University of Pennsylvania (2 summers)
- Developmental Biology, 3 cr. Department of Biology – University of Pennsylvania. Responsible for 2 weeks teaching of organ culture techniques
- Medical Histology, 6 cr. Department of Anatomy - University of California, San Francisco

- Medical Endocrinology, 4 cr. Departments of Anatomy and Biochemistry - University of California, San Francisco. Responsible for teaching histology of endocrine organs
- Pharmacy Gross Human Anatomy, 4 cr. - University of California, San Francisco
- Guest lectures in Human Anatomy for nurses (428) and Muscle Biology (725), 3 cr. - University of Wisconsin, Madison
- Medical Gross Human Anatomy, 8 cr. Department of Anatomy - University of Wisconsin, Madison
- Medical Gross Human Anatomy, 9 cr. Department of Anatomy and Cell Biology - State University of New York Health Science Center at Syracuse, Syracuse, New York
- Cell Biology, 1 cr. Department of Anatomy and Cell Biology State University of New York Health Science Center at Syracuse, Syracuse, New York
- Embryology, 1 cr. Department of Anatomy and Cell Biology State University of New York Health Science Center at Syracuse, Syracuse, New York
- Cell and Molecular Biology, 3 cr. Departments of Anatomy and Cell Biology and Biochemistry and Molecular Biology – State University of New York Health Science Center at Syracuse, Syracuse, New York
- Advanced Cell and Molecular Biology, Cell and Molecular Biology Program - State University of New York Health Science Center at Syracuse, Syracuse, New York
- Advanced Topics in Embryology and Developmental Biology, Department of Anatomy and Cell Biology - State University of New York Health Science Center at Syracuse, Syracuse, New York
- Molecular and Cellular Mechanisms of Development, Department of Anatomy and Cell Biology, State University of New York Health Science Center at Syracuse, Syracuse, New York
- Medicine and Society, College of Medicine, State University of New York Health Science Center at Syracuse, Syracuse, New York
- Contemporary Cellular, Molecular and Developmental Biology, 3 cr., Department of Anatomy and Cell Biology, State University of New York Health Science Center at Syracuse, Syracuse, New York
- Molecular Biology of the Cardiovascular System for Graduate Students, College of Medicine, Department of Medical Physiology, The Texas A&M University System Health Science Center, College Station
- Occasional lectures in courses in College of Science, Florida Atlantic University
- Independent Study course and Undergraduate Honors Thesis Advisor, College of Science, Florida Atlantic University
- Graduate student Advisement (Major Professor) for 5 graduate students and 3 Postdoctoral Fellows
- Supervision of work-study students at Temple University
- Supervision of work-study students at Texas A&M University-Commerce
- Supervision of several undergraduate honors theses students at Texas A&M University-Commerce (students participated in several publications and patent applications as inventors)

SPONSORSHIP OF STUDENTS, POSTDOCTORAL FELLOWS AND VISITING SCIENTISTS

Undergraduate and Medical Students Trained:

Have had more than 200 undergraduate and/or medical students work with me over the years

Graduate Students Trained:

- Craig Hill, Ph.D., received a Postdoctoral Fellowship at the Max Plank Institute in Goetingen, Germany. Dr. Hill became Director of Research at Hybriteck Inc. in California.

- Rebecca Fuldner, Ph.D., began work with me and completed her Ph.D. degree after I left Wisconsin. She went to the NIH as a Postdoctoral Fellow. She is currently the Chief of the Aging Physiology Branch of the National Institute of Aging at the NIH.
- Sui Mai Wong, Ph.D., began her work with me and completed her Ph.D. degree after I left Wisconsin. She joined the faculty of the National Taiwan University, where she is currently a Professor.
- Dino Messina, M.D., Ph.D., after completing the M.D./Ph.D. degrees, went to do a Residency in Internal Medicine and Cardiology at the University of Pittsburgh and a physician and lecturer at St. Elizabeth's Hospital in Boston, MA, affiliated with Tufts University. He is currently a physician and Associate Program Director of the Internal Medicine Residency Program at Danbury Hospital in Danbury, Connecticut.
- Guan-Ren Hou, M.S., became Director of Allied Health Services, Harvard University.
- Christine Makhuli, M.S., became Director of Public Relations with a pharmaceutical firm.
- Jian Li, M.D., Ph.D., is currently an Assistant Professor at Harvard University.
- Willie Underwood, M.D., M.S., became a resident in Urology at the University of Massachusetts. He is currently an Assistant Professor of Urology and the Barbara Ann Karmanos Cancer Institute at Wayne State University School of Medicine.
- Pei-Shen Shen, M.D., Ph.D., completed the Ph.D. and went to Harvard School of Public Health for Postdoctoral training. She currently works in the biotech industry near San Francisco.
- Sherrie LaFrance, Ph.D., completed the Ph.D. degree and went to Harvard Medical School to do her Postdoctoral research study. She now teaches at LeMoyne College School of Nursing in Syracuse, NY.
- Nihan Erginel-Unaltuna, Ph.D., completed the Ph.D. degree and spent five additional months in my laboratory as a Postdoctoral Fellow. She then went to a Postdoctoral Research Fellowship at Bristol-Myers-Squibb Research Center in Princeton, New Jersey. She is currently a Professor and Chairperson at the University of Istanbul, Turkey. She also started a private genetics diagnostic laboratory called "GenKlinik" in Turkey.
- Eileen Luque, M.D., Ph.D., completed the Ph.D and went to Yale University College of Medicine as a Postdoctoral Research Fellow. Currently she is a Pediatric Physician in Arlington, TX.
- Simone Ward, Ph.D., Minority Fellowship recipient for her Ph.D. degree training, accepted a Postdoctoral Research Fellowship at Harvard Medical School and currently is on the research faculty at Harvard.
- Yan Wang, M.S., went to get a Ph.D. at Columbia University.
- Arun Gaur, Ph.D. completed the Ph.D. and went to Rutgers University to do Postdoctoral research study. He is currently a senior scientist in the QC department at Imclone Systems in New Jersey.
- Kathleen Pietras, M.S., completed the M.S. Degree and planned to pursue a Physician's Assistant degree.
- Sharon Luster, M.D., a Minority Fellowship recipient for her Ph.D. training, accepted a medical Residency in Surgery at the University of Minnesota. She is currently a surgeon in Minneapolis, MN.
- Robert Zajdel, Ph.D., currently an Assistant Professor at the SUNY HSC at Syracuse.
- Belinda Spinner, Ph.D., employed by Biogen Idec where she manages the educational grants program.
- Chi Zhang, Ph.D., received Ph.D. degree from Texas A&M University with me, served as a Research Assistant Professor at Florida Atlantic University, received his M.D. from the University of Miami Miller School of Medicine and currently is a Resident Physician at Columbia University/New York Presbyterian Hospital.
- Gian Franco Sferrazza, M.S. completed the M.S. degree in my laboratory and is employed by Scripps Florida.

- Saira Hussain did an undergraduate honor's thesis in my laboratory in Biomedical Science and is doing a residency in New York City.
- PingPing Jia, M.S. completed the M.S. degree and is employed by the University of Miami Miller School of Medicine.
- Jennifer Maier, M.S. completed the M.S. degree in Integrative Biology and received a Ph.D. degree at the University of Florida.
- Elena Rueda-de-León, M.S. completed the M.S. degree in Integrative Biology and is a medical student at Florida International University.
- Alyssa Stassi, B.S. completed the M.S. degree in Biomedical Science and is an osteopathic medical student in Florida.
- Ashley Moses, B.S. with Highest Honors, completed the B.S. degree and is enrolled in graduate school at Texas A&M University-Commerce to complete the M.S. degree with plans to go to medical school.
- Jessica Meyer, B.S. is attending medical school at Texas A&M University System, Bryan, TX.
- Will Lian, B.S. with High Honors is attending medical school at the University of Texas Southwestern Medical School, Dallas.

Postdoctoral Fellows/Visiting Scholars/Research Faculty:

- Parris Kidd, Ph.D., received the Ph.D. at Berkeley University and worked in my laboratory while at the University of California, San Francisco. He studied the histochemistry of heart development and succeeded in winning the Bay Area Heart Association Outstanding Researcher Award while in my laboratory. He also was awarded an American Heart Association Postdoctoral Fellowship.
- Zeng Hong Tu, M.S., M.D., was a Visiting Scholar from China, did Postdoctoral work in my laboratory for three years and studied tissue culture of hamster heart cells. Currently he is a Professor at the Institute of Materia Medica, Shanghai, China.
- Pamela B. Moore, Ph.D., received the Ph.D. from Oklahoma State University, came to work in my laboratory at the University of Wisconsin where she spent three years doing biochemistry on contractile proteins and developing hearts. She went on to the research faculty at Rockefeller University, New York.
- Soo-siang Lim-Spiker, Ph.D., received the Ph.D. from the University of South Dakota, came to my laboratory at the University of Wisconsin and spent three years working on chick heart development looking at the biochemistry of contractile proteins during development. She is currently Lead Program Director and Chair of the Coordinating Committee of the Science of Learning Center Program at the National Science Foundation.
- M. Nicola Woodroofe, Ph.D., came from the University of London to do postdoctoral training in my laboratory. Her research included studying actin in the axolotl heart and contractile proteins in the chick heart. She is currently the Head of the Biomedical Research Centre at Sheffield Hallam University in the United Kingdom.
- Lynn A. Davis, Ph.D., received her Ph.D. at the University of Virginia. She came to the University of Wisconsin, spent a year doing Postdoctoral work on heart development in the axolotl and then moved with me to SUNY in Syracuse where she continued for an additional two years funded by an NSF Fellowship. She became Associate Dean of Students at the University of Virginia, Charlottesville and Director of the Echols Program.
- Yuji Isobe, M.D., Ph.D., came from Chiba University in Japan where he received the M.D. and Ph.D. degrees. He spent four years in my laboratory as a Postdoctoral Fellow and Research Associate working on the immunoelectron microscopy of contractile proteins in developing hamster heart cells in culture. He is currently affiliated with the University Hospital in Chiba, Japan.

- Margaret Fransen, Ph.D., began postdoctoral work in my laboratory after receiving her Ph.D. from the University of North Carolina and having done a Postdoctoral Fellowship in our Biochemistry Department. She spent several years as a Postdoctoral Fellow. She spent several years as a Postdoctoral Fellow and currently works at Syracuse Research Corporation.
- Hanna Osinska, Ph.D., received her Ph.D. at Warsaw University in Poland in cell biology and biochemistry. She came here and worked for several years as a Postdoctoral Fellow studying heart development in culture using immunohistochemical methods. She was a research associate for several years at the SUNY Health Science Center and has relocated to the University of Cincinnati.
- Sherrie LaFrance, Ph.D., after completing her Ph.D., spent an additional six months in my laboratory studying the molecular biology of heart development. She went on to Harvard Medical School to do Postdoctoral work. She is teaching Anatomy at LeMoyne College School of Nursing in Syracuse, NY.
- Nihan Erginel-Unaltuna, Ph.D., spent five months in my laboratory after completing her Ph.D. and was looking at the molecular biology of a new protein, which she had discovered during her graduate training. She was a Postdoctoral Fellow at Bristol-Myers-Squibb and now is a Professor and Chairperson at the University of Istanbul, Turkey. She also started a private genetics diagnostic laboratory called "GenKlinik" in Turkey.
- John Armstrong, Ph.D., spent a year in my laboratory as a Visiting Scientist from Canada and studied electron microscopy and biochemistry of heart development in the axolotl and hamster. He served as a Professor of Zoology, University of Ottawa.
- Yongze Zhu, M.D., a Visiting Scholar from China, is spending three years studying heart cell culture in the axolotl with respect to the appearance of intermediate filament proteins. He is currently Professor and Chair of Anatomy at Yanhtza University, China.
- Abdul Zanabli, M.D., received his M.D. in Syria and spent a year doing Postdoctoral work in my laboratory and learning cell and molecular biology techniques as it relates to heart development. He moved on to an Internal Medicine residency in Chicago and is practicing in Charleston, WV.
- Azmi Draw, M.D., also from Syria, worked with me on the molecular biology of contractile proteins and went on to a residency in Michigan. He is a physician in Louisville, Kentucky.
- Rajula Bhatia, Ph.D., received her Ph.D. from the University of Toledo, Ohio, and studied molecular biology of a unique RNA that rescues and promotes myofibrillogenesis in cardiac mutant axolotl hearts. She is working as a senior scientist with the Functional Genomics group at Aventis Pharma.
- Anne Rosa McDonald, Ph.D., received her Ph.D. from the University of London, did work as an American Heart Association Postdoctoral fellow in my laboratory and is working at Syracuse Research Corporation, Syracuse, New York.
- Robert J. Zajdel, Ph.D., received a Ph.D. at the SUNY Health Science Center in Syracuse. He was an American Heart Association Postdoctoral fellow in my laboratory and is now a Research Assistant Professor at SUNY, Syracuse.
- Dalton Foster, Ph.D., received his Ph.D. from the SUNY Health Science Center in Syracuse and subsequently performed research at the Center for Blood Research at the Harvard Medical School as a Postdoctoral Research Associate. He attended medical school at Upstate Medical University in Syracuse, New York and is currently doing a residency in Urology there.
- Fanyin Meng, M.D., received his M.D. from China, spent three years as a Postdoctoral Fellow in my laboratory at Texas A&M and is currently an Assistant Professor at the Ohio State University.
- Xupei Huang, M.D.; Ph.D., was a Research Assistant Professor (non-tenure track) working on molecular biology in my laboratory at Texas A&M University. He is presently an Associate Professor with tenure at Florida Atlantic University.
- Qing Li, M.D., was a Postdoctoral Fellow in my laboratory at Texas A&M University. She is a Research Scientist in industry in Bethesda, Maryland.

- Chi Zhang, Ph.D., was a Postdoctoral Fellow in my laboratory at Florida Atlantic University and was a Research Assistant Professor in the Cellular and Developmental Biology Institute at Florida Atlantic University. He attended the University of Miami Medical School and is currently a Resident Physician at Columbia University/New York Presbyterian Hospital.
- Fahri Akbas, Ph.D., received his Ph.D. at the University of Istanbul in Turkey. He was a Postdoctoral Fellow in my laboratory at Florida Atlantic University and has returned to the University of Istanbul.
- Gagani Athauda, M.D. received her M.D. from the University of Latvia and was a Postdoctoral Fellow and Research Assistant Professor in my laboratory. She is now working at the University of Miami Miller School of Medicine.
- Jikui Wang, Ph.D. worked as a postdoctoral fellow in my laboratory at Temple University. He is now an Instructor at the University of Virginia.
- Andrei Kohegarov, Ph.D. is currently a Postdoctoral Research Associate, Research Assistant Professor in my laboratory at Texas A&M University-Commerce funded by my National Science Foundation Grant. He plans to pursue an Academic Medical/Science Professorship when he finishes his training.

AREA OF RESEARCH INTEREST

My main research interests concern a study of myofibrillogenesis and heart inductive processes in developing embryonic hearts at the cell and molecular levels. Immunofluorescent and confocal microscopy, biochemistry, molecular biology and tissue culture methods are used in the studies. We are currently studying cardiac mutant axolotls, transgenic mice and induced pluripotent adult stem cells. Our goals are to elucidate the sequence of events and mechanism(s) of myofibrillogenesis and to explain how inductive interactions direct heart differentiation at the cellular and gene levels. We recently have discovered unique and specific ribonucleic acids (RNAs) that have the capacity to promote cardiac myofibrillogenesis in nonmuscle cells. We are pursuing the mechanism of this exciting and intriguing phenomenon and we are exploring inducing heart muscle repair in hearts damaged from disease processes such as myocardial infarctions (heart attacks). This research program has been funded by the National Institutes of Health and the American Heart Association. One patent for the sequence and action for an RNA has been issued and two additional patent disclosures on new RNAs discovered have been submitted. This research shows great promise for being able to treat patients who have suffered from heart attacks or other disease processes that affect heart muscle function by replacing the damaged, diseased heart cells with vigorously contracting new muscle tissue. In the future, such patients treated using this approach might be able to return to pre-heart-attack activity levels.

EXTRAMURAL RESEARCH SUPPORT AWARDS

Title: Genetic Cardiomyopathies in Salamanders
Amount Received: $160,000
Date: 04/01/76 - 03/30/79
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Genetic Cardiomyopathies in Salamanders (Dual application of above grant)
Amount Received: $80,000
Date: 04/01/76 - 07/01/78
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NSF

Title: Myogenesis in Cardiomyopathic Salamanders and Hamsters

Amount Received: $49,500
Date: 07/01/76 - 06/30/79
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Congenital Cardiomyopathies in Vertebrates
Amount Received: $10,500
Date: 01/01/80 - 12/31/80
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Genetic Cardiomyopathies in Vertebrates
Amount Received: $186,000
Date: 04/01/79 - 03/31/82
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Established Investigatorship Award
Amount Received: 75% of salary for P.I. for five years
Date: 07/01/76 - 06/30/81
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Myogenesis in Cardiac Non-Function Axolotls and Cardiomyopathic Hamsters
Amount Received: $40,000
Date: 07/01/80 - 06/30/82
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: National Foundation March of Dimes

Title: Heart Development in Cardiac Mutant Salamanders
Amount Received: $12,000
Date: 01/01/81 - 12/31/81
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Heart Development in Cardiac Mutant Salamanders
Amount Received: $10,000
Date: 01/01/82 - 12/31/82
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Immunofluorescent Studies of Myofibrillogenesis
Amount Received: $25,000
Date: 01/30/84 - 02/01/85
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: Hendricks Foundation

Title: Heart Development in Cardiomyopathic Hamsters

Amount Received: $99,000
Date: 01/01/82 - 06/30/85
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Heart Induction in Axolotls
Amount Received: $40,000
Date: 10/01/83 - 09/30/85
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: Muscular Dystrophy Association

Title: Cardiac Myofibrillogenesis and Heart Induction
Amount Received: $118,948
Date: 01/01/86 - 12/30/86
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Myofibrillogenesis and Immunoelectron Microscopy
Amount Received: $25,000
Date: 07/01/86 - 06/30/87
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Genetic Cardiomyopathies in Vertebrates
Amount Received: $534,924
Date: 04/01/83 - 03/31/88
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Reichert-Jung Cryofract 190 with Cryoblock (DRR-BRS Shared Instrumentation Grant)
Amount Received: $124,000
Date: 12/01/87 - 11/30/88
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Molecular Mechanisms of Heart Induction and Myofibrillogenesis
Amount Received: $90,000
Date: 07/01/88 - 06/30/91
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Research Equipment Grant
Amount Received: $130,000
Date: 01/01/91 - 12/31/91
Role in Obtaining Grant: Internal University Application
Name of Granting Agency: New York State University Equipment Fund for Laser Confocal Scanning Microscope

Title: Intercellular Communication and Impulse Propagation
Amount Received: $803,400
Date: 12/01/89 - 11/30/94
Role in Obtaining Grant: Core-Leader (Dr. Jose Jalife, PI)
Name of Granting Agency: NIH

Title: Molecular Biology of Heart Induction in Mutant Axolotls
Amount Received: $90,000
Date: 07/01/92 - 06/30/95
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Medical Student Research Fellowship Program
Amount Received: $171,000
Date: 7/1/86 - 6/30/96
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association (National)

Title: Intercellular Communication and Impulse Propagation (Continuation of above PPG)
Amount Received: $850,000
Date: 12/01/94 - 11/30/99
Role in Obtaining Grant: Consultant (Dr. Jose Jalife, PI)
Name of Granting Agency: NIH

Title: Cellular and Molecular Mechanisms of Heart Development
Amount Received: $529,858
Date: 08/01/93 - 07/31/98
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Investigation of a Novel Protein Associated with Heart Development
Amount Received: $70,000
Date: 07/01/97-06/30/99
Role in Obtaining Grant: Postdoctoral Fellowship Sponsor (for Anne R. McDonald)
Name of Granting Agency: American Heart Association

Title: Characterization of a Novel RNA that Promotes Myofibrillogenesis
Amount Received: $60,000
Date: 07/01/96-06/30/98
Role in Obtaining Grant: Postdoctoral Fellowship Sponsor (for Dr. Rajula Bhatia)
Name of Granting Agency: American Heart Association

Title: Cellular and Molecular Mechanisms of Heart Development
Amount Received: $90,000
Date: 07/01/96 - 06/30/99
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: Rescue of Cardiac Mutant Axolotl Hearts by Ectopic Expression of a Novel RNA and Tropomyosin
Amount Received: $70,000
Date: 07/01/97-06/30/99
Role in Obtaining Grant: Postdoctoral Fellowship Sponsor (for Robert Zajdel)
Name of Granting Agency: American Heart Association

Title: Studies on a Novel RNA that Promotes Heart Development
Amount: $1,591,950 (Total Costs)
Date: 01/01/98-12/30/02
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: A Novel Protein Associated with Heart Development
Amount: $1,206,642 (Total Costs)
Date: 07/01/97 - 06/30/06
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Vertebrate Heart Specification and Myofibrillogenesis During Early Embryogenesis
Amount: $120,000
Date: 07/01/02-06/30/05
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: Christine B. Lynn American Heart Association Grant-in-Aid

Title: Center of Excellence on Medical and Marine Biotechnology
Amount: $10,000,000
Date: 07/01/03-01/30/05
Role in Obtaining Grant: Principal Offeror (Principal Investigator)
Name of Granting Agency: State of Florida

Title: Center of Excellence in Ocean Energy Technology
Amount: $5,000,000
Date: 2006
Role in Obtaining Grant: Principal Offeror
Name of Granting Agency: State of Florida
Title: Studies on a Novel RNA that Promotes Heart Development
Amount: $1,500,000 (Total costs)
Date: 04/01/03-01/31/10
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: A Novel Cardiac Myofibril-Inducing RNA (ACTIVE)
Amount: $139,700
Date: 07/01/10-06/30/13
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association

Title: RUI: Elucidation of Maspardin Function and its Role in the Endocytic Pathway (ACTIVE)
Amount: $448,672
Date: 12/01/11-11/30/15
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: National Science Foundation

Title: An RNA from Human Heart Promotes Cardiac Myogenesis (Pending)
Amount: $140,000
Date: 1/1/14-12/31/15
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: American Heart Association SouthWest Affiliate

Title: Micro-RNA-Treated Stem Cells Promote Cardiac Myogenesis in a Rat Myocardial Infarct Model (Pending)
Amount: 3,076,117
Date: 3/1/14-2/28/19
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: An RNA from Human Heart Promotes Cardiac Myogenesis (pending)
Amount: 3,042,115
Date: 3/1/14-2/28/19
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

Title: Myofibril-Inducing RNA-Treated Stem Cells Regenerate Heart Tissue in Rabbit Model (pending)
Amount: 3,076,117
Date: 3/1/14-2/28/19
Role in Obtaining Grant: Principal Investigator
Name of Granting Agency: NIH

PATENTS

Promoting Cardiac Cell Differentiation (US Issued Patent [9/18/07] 60/462 171)—Dr. Larry Lemanski (80%) and Dr. Chi Zhang (20%): Patent Issued

Cardiac Myofibril Induction (US Patent Pending [Submitted 06/11/13]; Application No: 61900904). Dr. Larry Lemanski (60%) and Dr. Andrei Kochegarov (20%) and Ashley Moses (20%).

LECTURES/CONFERENCES/KEYNOTE SPEECHES (Partial List)

- Second International Symposium of the Muscular Dystrophy Association on Exploratory Concepts in Muscular Dystrophy. (Invited speaker and invited paper). Carefree, AZ
- International Symposium on The Biochemistry of Smooth Muscle. (Invited paper with A.V. Somlyo, F. Ashton, J. Vallieres and A.P. Somlyo). Montreal, Canada
- ICN-UCLA Winter Conference on Molecular and Cellular Biology. (Invited paper for Symposium Volume)

- International Symposium on Developmental Genetics. (Invited speaker and invited paper). Toronto, Canada
- March of Dimes International Symposium on Birth Defects. (Invited speaker and invited paper). Grand Canyon, AZ
- Established Investigators Meeting of the American Heart Association (Invited speaker). Charleston, SC
- American Heart Association-National Organization Annual Meeting (Invited speaker). Dallas, TX
- Annual Symposium of the New York Society for Electron Microscopy (Invited speaker). New York, NY
- Electron Microscopy Society of America. (Invited symposium chairman and speaker). Atlanta, GA
- VII International Conference: Defined Immunofluorescence, Immunoenzyme Studies and Related Labeling Techniques (Invited speaker). Niagara Falls, NY
- First International Symposium on Contractile Proteins in Muscle and Non-Muscle Cell Systems (Invited speaker and invited papers). Sassari, Italy
- NIH Workshop on Molecular Biology and the Cardiovascular System (Invited participant). Chantilly, VA
- Tenth Yamada Conference on Cell Motility II (Invited presentation). Nagoya, Japan
- Third International Congress on Cell Biology (Participant). Tokyo, Japan
- XII International Anatomical Congress, London, England
- Annual Symposium of Scanning Electron Microscopy, Inc. (Invited Presentation and Paper) Hamilton, Ontario, Canada
- Biology of Isolated Adult Cardiac Myocytes. (Invited Presentation and Paper). Asilomar, California
- ICN-UCLA Winter Conference on Molecular and Cellular Biology of Muscle Development Steamboat Springs, Colorado (Invited Presentation and Paper)
- VIII International Symposium on Morphological Sciences. Rome, Italy (Invited Presentation and Paper)
- New York Academy of Science, Congress on Embryonic Origins of Defective Heart Development (Presentation and Paper)
- Keystone Symposium on Molecular Mechanisms of Cardiac Growth and Hypertrophy, Keystone, Colorado
- Conference on Molecular Biology of Development, Arlie, Virginia (Presentation)
- Fifth International Congress on Cell Biology, Madrid, Spain. (Invited Presentation)
- International Workshop on the Molecular Biology of Urodeles, Indianapolis, Indiana
- (Invited Presentation and Symposium "Provocateur")
- Syracuse Microscopy Colloquium, Syracuse, New York (Invited Symposium Speaker)
- Cardiac Morphogenesis Conference, Charleston, South Carolina (Invited Presentation)
- Midwestern Society for Electron Microscopy, University of Iowa, Iowa City, Iowa (Invited Symposium Speaker)
- Symposium on the Molecular Biology of Cardiac Development, San Francisco, California (Invited Symposium Speaker)
- American Heart Association, Conference on Cellular and Molecular aspects of Development, New Orleans
- Weinstein Cardiovascular Development Conference, Philadelphia, Pennsylvania
- NIH Cardiovascular Development Conference, Philadelphia, Pennsylvania (Invited Speaker)
- Federation of the American Society for Experimental Biology and Medicine (FASEB), New Orleans, Louisiana (Invited Minisymposium Chairman and Speaker)

- Cardiovascular Development Symposium, St. Petersburg, Russia (Invited Symposium Speaker and Invited Review Manuscript)
- Microscopy Society of America, Chicago, Illinois (Invited Symposium Speaker and two Invited Review Manuscripts)
- Baylor College of Dentistry "Student Research Day", "An Overview of Research at Texas A&M and the Future of Biomedical Research in Universities" (Keynote Speaker)
- Intercultural Development Across the Border II: A Research and Cultural Exchange Between the U.S. and Mexico, Vera Cruz and Xalapa, Mexico (Invited Speaker)
- Texas A&M University System Health Science Center Faculty Research Retreat, "Bioscience Research at Texas A&M" (Invited Speaker)
- 6 th Annual Meeting of the International Society for Heart Research, Chinese Section (ISHR), Nanjing, China (Invited Keynote Speaker)
- Myofibrillogenesis Symposium, Special Interest Group, American Society for Cell Biology Meeting, Washington, D.C., (Invited Speaker)
- Overview of Research at Florida Atlantic University, College of Engineering, Tokoshima University, Japan (Invited Speaker)
- Research Symposium on Medical Bioscience, Tokoshima, Japan (Invited Symposium Speaker)
- XVIII World Congress of the International Society for Heart Research (ISHR), Brisbane, Australia (Symposium Chair and speaker)
- Enterprise Florida Trade Mission panel in Germany and Switzerland (Presenter and panel co-chair)
- Enterprise Florida Governor's Trade/Research Mission to the United Kingdom
- LA Grid Symposium, Barcelona, Spain
- GovSec, U.S. Law and Ready! Liaison Committee, Summit on Intermodel Transportation, Washington, D.C. (invited speaker and session moderator)
- Deepshika University, Jaipur, India
- Nirma University, Ahmedabad, India
- Indian Institutes of Technology, New Delhi, India
- Mahatma Ghandi Medical College and Hospital, Jaipur, India
- Monterey Technical University, Mexico City, Mexico
- Newsmakers at Noon Luncheon Speaker and Panel Moderator, U.S. Congress (hosted by U.S. Representative Ron Klein), Washington, DC
- Ben-Gurion University of the Negev, Beersheba, Israel
- University of Edinburg, Scotland
- Institution of Mechanical Engineers, London, UK
- New and Renewable Energy Center, Newcastle University, UK
- International Society for Design and Process Science, Dallas, TX (Invited Keynote Speaker)
- Phi Delta Kappa Annual Meeting, Rockwall TX (Keynote Speaker)
- XIIth International Seminar on Globalization of Higher Education, New Delhi, India (Invited Keynote Speaker)
- Society for Design and Process Science (International)- Plenary Keynote Speaker-Jeju Island, Korea (2011)
- Keynote Speaker-Inaugural Session, XIII International Seminar on Ethics, Morality and Spirituality, Delhi, India (2012)
- Keynote Speaker and Session Chairman, Nirma Conference on Management, Ahmedabad, India (2012)

- Society for Design and Process Science (International)- Plenary Keynote Speaker, Berlin, Germany (2012)

INVITED RESEARCH SEMINAR SPEAKER (Partial List)

Cell Biology Institute, Arizona State University
Cardiovascular Research Unit, University of Pennsylvania
Muscle Biology Institute University of Pennsylvania
Biochemical Laboratories, University of Pennsylvania
Department of Anatomy, University of Pennsylvania
Department of Anatomy, University of California, San Francisco
Department of Zoology, Louisiana State University
Department of Zoology, University of California, Berkeley
Department of Zoology, University of Alabama
Division of Medical and Biological Sciences, Brown University
Department of Anatomy and Physiology, Indiana University
Pennsylvania Muscle Biology Institute, University of Pennsylvania
Division of Cellular Biology, San Francisco Veterans Administration Medical Center
National Heart and Lung Institute, National Institutes of Health
Department of Anatomy, Columbia University
Department of Anatomy, Southern Illinois University
Department of Anatomy, University of Arizona
Department of Anatomy, Temple University
Department of Anatomy, University of Wisconsin, Madison
Electron Microscopy Group, University of California, Berkeley
Department of Anatomy and Physiology, University of California, Berkeley
Department of Biology, California State University, San Diego
Department of Muscle Biology, University of Wisconsin, Madison
Department of Anatomy, Duke University
Department of Anatomy, Medical College of South Carolina
Department of Biology, University of Virginia
Department of Zoology, Developmental Biology Group, University of Wisconsin, Madison
Department of Anatomy, University of Miami
Department of Anatomy, University of North Carolina
Division of Biological Sciences, Oakland University
Department of Anatomy, Medical College of Wisconsin, Milwaukee
Department of Pharmacology, University of Wisconsin
Department of Anatomy, Texas Tech University
Department of Anatomy, Upstate Medical Center
Department of Pathology, University of Wisconsin
Department of Anatomy, University of Texas Medical Branch, Galveston
Department of Biology, Utica College, New York
Department of Anatomy and Cell Biology, State University of New York
Health Science Center at Brooklyn
Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Maryland
College of Graduate Studies, University of Alabama, Birmingham
Department of Biology, Indiana University, Bloomington
Department of Medical Sciences, Indiana University/Notre Dame, South Bend, Indiana
Department of Anatomy, University of Iowa, Iowa City

Department of Anatomy, University of Florida, Gainesville
Department of Anatomy and Cell Biology, Uniformed Services Health Sciences University, Bethesda, Maryland
Department of Physiology, SUNY Health Science Center, Syracuse, New York
College of Medicine, University of Missouri, Columbia, Missouri
Department of Physiology and Biophysics, State University of New York, Buffalo, New York
Department of Medical Physiology, Texas A&M University, College Station, Texas
Department of Pharmacology and Toxicology, Texas A&M University, College Station, Texas
Nanjing Medical University, Nanjing, China
Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China
Deepshika University, Jaipur, India
Mahatma Ghandi Medical College, Jaipur, India
Nirma University, Ahmedabad, India
Indian Institutes of Technology, New Delhi, India
Monterey Technical University, Mexico City, Mexico
Ben-Gurion University of the Negev, Beersheba, Israel
Department of Biological and Environmental Sciences, Texas A&M University-Commerce

PUBLICATIONS

Refereed Journal Articles

Lemanski, L.F. and E.M. Bertke 1970 Histology and ultrastructure of untreated forty-eight hour canine renal transplants. J. Exp. Zool., 174: 287-308.

Lemanski, L.F. 1973 Heart development in the Mexican salamander, Ambystoma mexicanum. I. Gross anatomy, histology and histochemistry, J. Morph., 139: 301-328.

Lemanski, L.F. 1973 Heart development in the Mexican salamander, Ambystoma mexicanum. II. Ultrastructure. Amer. J. Anat., 136: 487-526.

Lemanski, L.F. 1973 Morphology of developing heart in cardiac lethal mutant Mexican axolotls, Ambystoma mexicanum. Dev. Biol., 33: 312-333.

Lemanski, L.F., E.P. Fitts and B.S. Marx 1976 Fine structure of the heart in the Japanese medaka, Oryzias latipes. J. Ultrastructure Res., 53: 37-65.

Lemanski, L.F., M.S. Mooseker, L.D. Peachey and M.R. Iyengar 1976 Studies of muscle proteins in embryonic myocardial cells of cardiac lethal mutant Mexican axolotls (Ambystoma mexicanum) by use of heavy meromyosin binding and sodium dodecyl sulfate polyacrylamide gel electrophoresis. J. Cell Biol., 68: 375-388.

Lemanski, L.F. 1976 Morphological and biochemical abnormalities in hearts of cardiac mutant salamanders (Ambystoma mexicanum). J. Supramolec. Struct., 5: 221-238.

Lemanski, L.F., B.S. Marx and C.S. Hill 1977 Evidence for abnormal heart induction in cardiac mutant Mexican salamanders (Ambystoma mexicanum). Science, 196: 894-896.

Lemanski, L.F. and R. Aldoroty 1977 Role of acid phosphatase in the breakdown of yolk platelets in developing amphibian embryos. J. Morph., 153: 419-426.

Lemanski, L.F. 1978 Morphological, biochemical and immunohistochemical studies on heart development in cardiac mutant axolotl embryos (Ambystoma mexicanum). Amer. Zool. 18: 327-348.

Lemanski, L.F., D.H. Paulson and C.S. Hill 1979 Normal anterior endoderm corrects the heart defect in cardiac mutant salamanders (Ambystoma mexicanum). Science, 204: 860-862.

Lemanski, L.F. 1979 Role of tropomyosin in actin filament formation in embryonic salamander heart cells. J. Cell Biol., 82: 227-238.

Hill, C.S. and L.F. Lemanski 1979 Morphological studies on cardiac lethal mutant salamander hearts in organ cultures. J. Exp. Zool., 209: 1-20.

Lemanski, L.F., R.A. Fuldner and D.J. Paulson 1980 Immunofluorescence studies for myosin, alpha-actinin and tropomyosin in developing hearts of normal and cardiac lethal mutant axolotls, Ambystoma mexicanum. J. Embryol. exp. Morph., 55: 1-15.

Epstein, M. and L.F. Lemanski 1980 Electrical activity in cardiac mutant axolotl hearts. J. Exp. Zool., 211: 131-136.

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