

Michael W. Fountain, Ph.D., MBA

USF Center for Entrepreneurship, 4202 E. Fowler Avenue, BSN 3403, Tampa, FL 33620-5500 • (813) 974-7900

WORK HISTORY

Academic Experience:

Director of the University of South Florida's Center for Entrepreneurship, Director of the Institute for Life Sciences Entrepreneurship, John and Beverley Grant Endowed Chair in Entrepreneurship, Professor of Industrial and Management Systems Engineering, Professor of Psychiatry and Behavioral Medicine, and the Director of the College of Business Administration Entrepreneurial Studies Program

Current Activities

University of South Florida, Tampa, Florida

- Directs the University-wide Center's activities for the Center for Entrepreneurship administering interdisciplinary graduate education programs (undergraduate, graduate, professional and certificate), research and training programs for the Colleges of Business, Engineering and Medicine. This program includes both an interdisciplinary Graduate Certificate in Entrepreneurship, a university-wide interdisciplinary Masters of Science degree "Entrepreneurship in Applied Technologies (MSE)", a variety of dual-degree graduate programs MSE/MBA, MSE/MS, MSE/PhD and MSE/MD with the Colleges of Business Administration, Engineering and Medicine and an undergraduate program in entrepreneurship available to students from all Colleges on campus. These programs have received top national awards given by USASBE in 2004; Most Innovative Entrepreneurship Program, 2005; Most Innovative Entrepreneurship Curricula and in 2006; Most Innovative Entrepreneurship Teaching Pedagogy. In 2008 USF's graduate entrepreneurship program was ranked by The Princeton Review and Entrepreneurship Magazine as the number 5 best graduate entrepreneurship program among over 1300 programs nationwide and as number 2 among graduate entrepreneurship educational programs in public institutions of higher education in the United States. The program had previously been ranked in 2007 as the number 9 best graduate educational program and number 4 among graduate programs in public institutions of higher education in the United States.
- Serves as the Vice President for Development of USABE and as a member of the USABE Board of Directors 2009-2011.
- Directs national research and educational programs housed within the Institute for Life Sciences Entrepreneurship and serves as the National Director of the Consortium for Life Sciences Entrepreneurship sponsored by the Kauffman Foundation.
- Serves as the John and Beverley Grant Endowed Chair in Entrepreneurship in the College of Business Administration developing and teaching graduate entrepreneurship courses in the Departments of Management, Marketing and Executive Education Programs.
- Holds academic rank of Professor in the Department of Industrial and Management Systems Engineering in the College of Engineering teaching graduate entrepreneurship engineering courses and serving on Masters and Doctoral Thesis and Dissertation programs in the departments of Industrial and Management Systems Engineering, Civil Engineering and Biomedical Engineering.
- Holds academic rank of Professor in the Department of Psychiatry and Behavioral Medicine in the College of Medicine developing and teaching entrepreneurship and health care management courses, participating in research programs and providing graduate instruction for students in medical programs.
- Coordinates graduate student activities that link the Tampa Bay business and investment community with the graduate students and faculty of the College of Business Administration at the University of South Florida (USF). These activities include student field study projects, guest lectures from business and technology leaders and student externships relating to entrepreneurial studies and new venture formation. Also develops new entrepreneurial curricula for the MBA and Executive MBA programs at USF.

- Created and teaches new graduate curriculum in the area of Strategic Marketing of Intellectual Property involving graduate students in the Colleges of Business Administration, Engineering and Medicine (Strategic Market Assessments for New Technologies: MAR 6936-001). Field projects completed in this course were designed to aid USF faculty to develop plans to commercialize new technologies developed at USF and the H. Lee Moffitt Cancer Center and to create new spin-out venture companies for the USF Research Foundation.
- Created and teaches new graduate curriculum in the area of New Product Development strategically linking and involving graduate students in the Colleges of Business Administration, Engineering and Medicine to develop strategies to manage the development and commercialization of new products. Students are required to work in multidisciplinary teams to develop case studies and an in-depth analysis of a recent new product launch. (Product Development: MAR 6936-902/Advanced Product Development: EIN 6934-902).
- Created and teaches new graduate curriculum in area of Entrepreneurial Field Studies strategically linking and involving graduate students in the Colleges of Business Administration, Engineering and Medicine with Chief Executive Officers of high growth entrepreneurial ventures and entrepreneurial socially aware not-for-profit organizations to work on one semester internships involving mutually agreed upon projects of benefit to both the student and their host CEO. These internships require the development of a close working relationship and mentoring by the host CEO of the graduate student intern. (Advanced Topics in Applied Entrepreneurship: GEB 6930).
- Created and teaches new graduate Executive MBA curricula on techniques for entrepreneuring and intrapreneuring for business executives. Course requires executive MBA students to develop critical skills in financial analyses of new venture opportunities, examination of intellectual property issues surrounding new ventures and issues relating to the development and production of new products. Students work in teams to develop case analyses and presentation of short group projects. (Tools for New Venturing: MAN 6930).
- Revised curricula and teaches graduate courses in New Venture Formation and in Business Planning to graduate students in the Colleges of Business Administration and Medicine (New Venture Formation: GEB 6115-001 and Business Plan Development GEB 6116-001). New Venture formation provides critical insights into the facets of launching a new business by allowing panels of external experts and successful entrepreneurs to share their experiences with students in individual presentations and in panel discussions with students. Business Plan Development allows interdisciplinary graduate student teams to develop and prepare business plans for new ventures with the intent to raise capital for their new start-up companies. Student team business plans are used to seek venture financing through business plan competitions and through direct presentations to angel investors and CAPCO funding sources.
- Directs Independent Research Projects as Independent Study Courses for graduate students in Business Administration, Medicine and the Executive MBA program (MAR 6907-001). Currently engaged in research to 1) examine differences in marketing strategies of public and private companies to commercialize products resulting from the human genome project and 2) examine the effects of successful funding of Phase II SBIRs and STTRs on the growth of publicly traded businesses.

Visiting Professor in International Business

1999

The University of Paris, Paris, France

- Visiting Professor lecturing on selected topics in entrepreneurship, venture financing, international marketing of biotechnology products and management strategies for new venture start-ups.

Adjunct Professor

1993-1996

Hillsborough Community College, Tampa, Florida

- Taught undergraduate courses in Biology, Human Anatomy and Physiology, and Nutritional Biochemistry.

Associate Professor

1988-1989

Bristol College, Knoxville, Tennessee

- Taught graduate MBA courses in Entrepreneurship and Production Operations Management.

Doctoral Research Fellow

1980-1981

School of Veterinary Medicine, Auburn University, Auburn, Alabama

- Doctoral Fellow in the School of Veterinary Medicine in the Department of Veterinary Immunopathology.
- Conducted research on development of novel bacterial sub-unit vaccines, micro-encapsulation of anti-microbial agents to treat intracellular infections and techniques to modulate immune response using lipid soluble pro-vitamins and vitamins.
- Taught graduate Veterinary Medical courses in Immunopathology, Bacteriology and Clinical Microbiology.

Graduate Teaching Assistant

1978-1980

School of Veterinary Medicine, Auburn University, Auburn, Alabama

- Graduate Teaching Assistant in the Department of Veterinary Physiology and Pharmacology.
- Conducted research on the pharmacokinetics of aminoglycosides administered in snakes, the development of biocompatible drug delivery systems for parenteral administration in dogs and studies on the pharmacokinetics, pharmacodynamics and biodistribution of intravenously administered liposome encapsulated digoxin in dogs.
- Taught graduate Veterinary Medical courses in Veterinary Physiology, Veterinary Pharmacology and Pharmacology of Cardioactive drugs also taught graduate Pharmacology course in Cellular Pharmacology.

Research Fellow

1977-1978

United States Department of Agriculture, Auburn, Alabama

- Research Fellow working with the School of Veterinary Medicine at Auburn University and with the USDA developing novel vaccine adjuvants for the administration of genetically engineered sub-unit bacterial antigens from Brucella, Moraxella, and Mycobacterium.

Research Foundation and Technology Transfer Experience:

Interim Executive Director

1998-2000

The University of South Florida Research Foundation, Inc.

University of South Florida, Tampa, Florida

- Directed the operations of the USF Research Foundation. Developed and implemented the Strategic Reorganization Plan for the USF Research Foundation to bring the Foundation into compliance with the State of Florida Statutes for State Universities in Florida.
- Managed activities related to the marketing and commercialization of the University of South Florida (USF) and H.L. Moffit Cancer Center (Moffitt) Intellectual Property portfolios.
- Directed technology transfer initiatives activities for USF and Moffitt Cancer Center. Successfully transferred commercialization rights for Intellectual Property developed by Drs. Richard Heller, Mark Jaroszeski, and Richard Gilbert in the area of ionophoretic delivery of gene products to treat cancer patients. These technologies have been used to successfully create RMR Technologies, Inc, a USF Biomedical Spinout New Venture Company.
- Oversaw and directed the investments of the USF Research Foundation Fund and managed activities related to the financing and operations of the USF Research Park properties (land and buildings). Successfully oversaw the completion of the \$11.5 million long term financing for the USF Research Park through the issuance of variable-rate industrial revenue bonds.

- Developed the Operational and Financial Feasibility Plans for the \$5 million proposal to create the USF Biomedical Incubator in Tampa.

Chairperson

1998-2001

University of South Florida Intellectual Property Advisory Committee

University of South Florida, Tampa, Florida

- Oversaw and directed the university-wide committee of the President to evaluate, select and recommend intellectual properties for patent protection and commercialization.
- Developed university wide procedures to identify high growth, high value intellectual property opportunities in the invention disclosure phase of the patent application submission process.
- Implemented a standardized evaluation process using internal USF experts in the various areas of engineering, medicine and science to provide recommendations to the USF Patents and Licensing specialists to aid in their evaluations of invention disclosures.

Entrepreneurial Business Assistance Experience:

Visiting Professor in Entrepreneurship

1997-2000

College of Business Administration

University of South Florida

- Serves as an Instructor since 1997 for the National Economic Practitioners Certification program in the area of entrepreneurship on how to effectively create local and regional business and governmental environments to foster and nurture sustainable new business development in the high technology business sectors. Training program is held annually in Tampa sponsored by the USF Center for Economic Development Research.
- Represents USF on International High Technology Business trade missions focusing on expanding opportunities for Tampa Bay Businesses in the Medical and Biomedical, Microelectronics, Telecommunications and Environmental technology sectors into international markets and to attract international high technology businesses to establish business partnerships in Florida. Additional efforts include ongoing initiatives to establish strategic relationships with international venture investment funds to provide investment capital for growing Florida technology businesses. International trade missions have included missions to Toronto (1999) and Montreal (2000), Canada. In the Tampa Bay area serves on an ongoing basis as a USF contact representative for trade delegations visiting the Tampa Bay area from Canada, Scotland, Israel, Mexico and Brasil.
- Represents USF as expert in entrepreneurship and on Life Science business creation, growth and retention as a presenter and guest speaker both locally and throughout the US.
- Participates in regional high technology economic development strategies including co-authoring the Biomedical Business Sector study of medical and biomedical businesses in the I-4 Technology Corridor (“*Report on the Medical and Biomedical Industry for the Florida High Technology Corridor*” 1999).
- Serves as the USF coordinator for the College of Business Administration for the 2001 Tampa Bay Internet Student Business Plan Competition.
- Serves as a member of the Tampa Mayor’s Advisory Council for High Technology.
- Serves as a member of the Board of Director of BioFlorida, the state trade association for the biomedical industry in the State of Florida.
- Serves on the Tampa Chamber of Commerce committee on Health/Biomedical business.
- Serves on the Florida Venture Forum university council.

Executive Director

1996-1998

The Office for Corporate Development, University of South Florida

College of Business Administration, Tampa, Florida

- Created and integrated into the College of Business Administration a program to provide professional business assistance to Tampa Bay entrepreneurs both within USF and in the business and scientific community to facilitate the technology transfer and commercialization of new business ideas and to foster New Venture Formation.
- The organization was created to act an integrated part of the USF and the College of Business Administration's economic outreach to the business community and to provide linkages between USF students and faculty and the Tampa Bay business community.
- Directed and managed operational and financial activities of the Center's economic development and business assistance services for technology-based companies in Southwestern Florida.
- Successfully aided in the creation and launch of three USF spin-out New Venture companies:
 - MicroMaterials, Inc. founded by Dr. Nick DeJue in Physics.
 - RMR Technologies, Inc. founded by Drs. Richard Heller and Mark Jaroszeski in Medicine and Dr. Richard Gilbert in Engineering.
 - Portazam, Inc. founded by Dr. Anna Parsons at Tampa General Hospital.
- Co-sponsor for the annual Florida High Technology Corridor Technology Fast Fifty (formerly known as the Tampa Bay Technology Fast 50) which recognizes and awards the 50 fastest growing technology companies along Florida's high technology corridor.

Chief Executive Officer

1995-1996

The Enterprise Corporation of Tampa Bay, Inc., Tampa, Florida

- Chief Executive of the Tampa Bay not-for-profit corporation which provided business start-up, financing and technology commercialization assistance to more than 300 technology-based companies in 17 counties in Southwest Florida.
- Managed the organization's activities to provide integrated business assistance to local business organizations, while focusing the organization's attentions on creating new businesses and assisting existing businesses to grow and succeed in Tampa Bay and Southwest Florida.
- Directed the organizational components within an integrated operational framework for the various not-for-profit organizations such that they functioned as one seamless organization. The various programs making up the organization included the Tampa Bay Small Business Development Center, the Southwest Florida Manufacturing Technology Center, Enterprise Florida's Innovation and Commercialization Center, the Tampa Bay Defense Transition Assistance Program, Genoa Funding Group and the SunCoast Venture Forum.

Executive Director of Southwest Florida Innovation and Commercialization Center

1996-1997

The Enterprise Corporation of Tampa Bay, Tampa, Florida

The Innovation and Commercialization Center and The Tampa Bay Venture Forum, Program Director for Defense Transition Assistance Center (1996)

- Directed strategic, operational and programmatic activities of the not-for-profit organization that provided integrated business, technology and financial assistance to Tampa Bay high growth entrepreneurial businesses.
- Focused business assistance programs to support the growth of new and existing businesses in the areas of biomedical applications, telecommunications hardware and software, microelectronics and environmentally responsive product development applications.

Board of Advisors

1991-1993

Saint Petersburg Junior College, Saint Petersburg, Florida

- Served as a member of the Board of Advisors for the junior college serving as an executive advisor for high technology businesses.

***Member of Governor's European Trade Commission
State of Florida and Pinellas County***

1991

- Served as business consultant to the Governor's staff to expand our high technology business outlets into Europe and worked to establish outlets for European high technology products into the State of Florida.

National Life Sciences and Entrepreneurship Activities

National Director and Founder of National Consortium for Life Sciences Entrepreneurship (NCLSE)

Current Activities

- Created NCLSE in 2000
- Directs national program in life sciences entrepreneurship
- Grew organization from 6 founding members in 2000 to 26 nationally recognized universities in 2004.
- Merged organization as a membership organization with USASBE in 2006.

Executive Director

Current Activities

Ewing Marion Kauffman Entrepreneurial Internship Program at the University of South Florida
University of South Florida, Tampa, Florida

- Established the USF program which was selected as one of 18 nationally recognized institutions of higher learning for 1998, 1999, 2000 and 2001 to host the prestigious Kauffman Entrepreneurial Internship program sponsored by the Ewing Marion Kauffman Foundation in Kansas City, Missouri.
- Directs this nationally recognized entrepreneurship training program which links graduate students in the Colleges of Business Administration and Engineering with Chief Executive Officers of high growth entrepreneurial companies through integrated classroom educational activities and directed internships opportunities.
- Expanded the USF Kauffman Internship program in 1998 to include socially aware entrepreneurial internships.
- Created in 2000 a sustaining Kauffman Internship program due to its national rating of excellence in 1998, 1999, and 2000 by the Ewing Marion Kauffman Foundation. The USF Kauffman Entrepreneurial Internship Program will receive ongoing annual funding support from the Ewing Marion Kauffman Foundation. The USF program has been selected by the Kauffman Center for Entrepreneurial Excellence to be used as a benchmarking model of best practices for new programs selected to participate in the Kauffman Entrepreneurial Internship Program.

Entrepreneur-in-Residence

1999-2003

Kauffman Center for Entrepreneurial Leadership
Ewing Marion Kauffman Foundation
Kansas City, Missouri

Provides on-going professional guidance to the Kauffman Center for Entrepreneurial Leadership at the Ewing Marion Kauffman Foundation on issues relating to:

- High growth entrepreneurial initiatives including the development of the plan and legal frameworks for the creation of the New Kauffman Investment Banking Fellows Program and a new 250 million dollar investment fund-of-funds to provide operating funds and a perpetual endowment for the New Kauffman Fellows Program.
- Collegiate entrepreneurial activities including the creation and development of new collegiate cross-disciplinary initiatives to foster entrepreneurship in the life sciences in medical, engineering and business schools.
- The development of both a strategic plan for cooperation and the development of an operational plan of the formation of the Life Sciences Institute of Kansas City linking, the States of Kansas and Missouri, the cities of Kansas City, Kansas and Kansas City, Missouri, 12 colleges and universities including the Missouri and Kansas University systems and Kansas State University, Midwestern Research Institute, The Stowers Biomedical Research Institute, The Ewing Marion Kauffman Foundation, KCCatylst, the Brush Creek Business Incubator and MRI Ventures to create a national center of excellence for research, technology transfer and commercialization in the area of human genomics, bio-informatics and proteomics focusing on biomedical and biologic products for treatment and management of disorders arising in molecular oncology and aging.

Venture Capital Experience:

Chairman

Current Activities

Equus Financial Group, Inc., Tampa, Florida

Directs and manages the business and financial operations of the private investment banking business.

- Oversees client/investor relations.
- Provides strategic business assistance through service on Advisory Boards and Boards of Directors of Client Companies.
- Provides senior management consulting assistance through service as interim Chief Executive or Chief Financial Officer of client companies.
- Manages strategic partnership opportunities on behalf of client companies.
- Conducts strategic evaluations for potential merger and acquisition opportunities for client companies.
- Acts as financial intermediary in negotiations between client companies and interested sources of investment capital.

Chairman of the Board and Chief Executive Officer

1994-2005

SunCoast Venture Forum, Inc., Tampa, Florida

- Provided financial assistance in raising capital through a not-for-profit corporation networking over 1300 investors representing institutional investment firms, private investors and strategic corporate investors.
- Raised over \$100 million for 20 SunCoast Venture Forum Companies to support local new venture business development. Tradex, a 1996 presenter which raised an initial round of \$2 million, was acquired in 2000 for \$5 billion.
- Served in 1996-1999 on the State of Florida Task Force on “Angel and Seed Capital Investing in Florida” co-chaired by Enterprise Florida
- Co-hosted the 1998 “Jumping Through the Window”, the one day training program for local businesses to prepare for conducting their initial public offering of securities. Co-sponsored by Ernst and Young, R.R.Donnely Financial, Holland and Knight and Raymond James Financial.

Committee Chair

2002-2003

Tampa Chamber of Commerce

Co-Chair Venture Capital Committee

- Coordinated Chamber's activities and interaction with Tampa Venture Capital Community

Entrepreneurial Business Experience:

Board of Directors of Intezyne Technologies, Inc.

2005-Present

Scientific Advisory Board of Transgenex BioPharma, LLC.

2003-Present

Scientific Advisory Board of NanoPharma DDS, Inc.

2003-Present

Business Advisory Board of DocuVantage, Inc.

2002-Present

Founder, Chairman of the Board of Directors and CEO of Darkstar Financial Services, LLC

2003- Present

- Co-Founder, Chief Executive Officer and principal shareholder of University of South Florida technology spinout company which has developed a data warehousing service for federal grant information.

Chief Financial Officer, Vice-Chairman of Board of Directors

1994-1996

Pro-Pharma Marketing, Inc., Palm Harbor, Florida

- Co-founder and principal shareholder of pharmaceutical products marketing company specializing in the product introduction and promotion of new prescription drugs using leased regional pharmaceutical sales forces.

Chairman of Board of Directors, President

1993-1995

Dendron Corporation, Tampa, Florida

- Co-founder and a principle shareholder of private early phase biotechnology company formed to commercialize Dendrimer polymer technologies developed at the University of South Florida for use in medical and pharmaceutical applications.
- Conducted full reviews of the University of South Florida Research Foundation's patent portfolio for identification of marketing opportunities for their proprietary technologies and invention disclosures.

Chairman of Board of Directors, Chief Executive Officer

1988-1994

Fountain Pharmaceuticals, Inc., Largo, Florida

- Founder, Chairman of the Board and Chief Executive Officer of the biotechnology-based pharmaceutical company.
- As the Chief Executive Officer, grew the company from a start-up company, using the founder's privately patented technologies and leveraging the founder's personal funds, into a publicly traded, fully integrated, international biomedical company located in Tampa Bay with manufacturing and distribution of ethical dermatological products and high profile skin care products. Domestically, products are sold in Bloomindeales's, Neimann Marcus and Eckerd's Pharmacies.

- Established a wholly owned international subsidiary in Haarlem, The Netherlands to handle international FDA compliant and GMP compliant manufacturing of the Company's products and to handle marketing and distribution of the Company's pharmaceutical products throughout Europe and Asia through Brocades Farma, Nykomed DAK, Spirig AG, and Yamanouchi. All of these products lines utilize the founder's patented Lyphazome™ (Solvent Dilution MicroCarrier) drug delivery technologies and are produced using advanced biotechnological manufacturing techniques and involve the incorporation of novel drug delivery systems into the products.

President and Managing Partner

1987-1988

DFW Technologies, Inc., Dallas, Texas

- Founder, President and Managing Director of medical technology licensing company dealing with proprietary drug delivery technologies and microencapsulated technologies.

General Manager, Director of Product Development and Regulatory Affairs

1986-1988

Lipogen, Inc., Knoxville, Tennessee

- Co-founder of Company, which was a joint venture between the University of Tennessee Research Foundation, the University of Tennessee Medical School University, Yale University and Duke University Medical School. Novel gene expression vector technologies were licensed into the Company from Yale University and Duke University Medical School for development and production of medical diagnostic products.
- Responsible for corporate activities relating to the commercialization of these proprietary technologies and all governmental and FDA regulatory affairs of the company.
- Responsible for staffing the company, establishing a research and development facility, building a quality control laboratory and an FDA approved manufacturing facility able to produce autoimmune proteins (La, Ro, SM, and RNP) from genetically engineered *E.coli* and murine cell cultures. The genetically modified cell culture products were produced using Puc and other vectors to alter the cell lines allowing the cells to translate and transcribe the desired proteins as secretory products.
- Developed and implemented novel GMP compliant manufacturing processes that allowed for the harvesting of genetically engineered proteins from large-scale fermentation of bacterial cells and the continuous growth and expression of proteins from mammalian cell cultures. These autoimmune proteins were purified and used to successfully develop and manufacture diagnostics assays for the early detection and differential diagnosis of autoimmune disease disorders and for the monitoring of the clinical effectiveness of therapeutic intervention on the progression of autoimmune diseases in man.
- Developed and produced for sale the first diagnostic assays specific for Systemic Lupus Erythematous, Sjorgren's Syndrome, Mixed Connective Tissue Disease and Genetically-Linked Arthritis by the FDA for sale as diagnostic assays using genetically engineered and produced proteins expressed in cells of non-human origin.
- Successfully oversaw the manufacturing transfer of the product to Access Biomedical, Inc. and the private sale of the company to Whittaker, Biomedical, Inc. for \$18 million in stock.

Biotechnology Venture Manager/ Managing Director

1985-1986

Cooper Biomedical, Inc., Malvern, Pennsylvania

- Directed the scientific and business activities of Cooper/Lipotech as an on-site Venture Manager for the Cooper Companies, a biotechnology joint venture between Cooper Biomedical, Inc., and Lipotech, to develop novel drug delivery systems and novel immunoassays for clinical analyzers.
- Planned and directed the strategic acquisition of six complementary companies to form a vertically integrated medical diagnostic instrumentation company; Cooper Biomedical, Inc.
- Responsible for product development and commercial launch of the first physician office-based random access clinical analyzers.

- Managed the joint venture activities with Syva-Syntex for the co-development and marketing of instrumented drugs of abuse clinical analyzers.
- Successfully sold the company to Technicon, Inc. through a reverse merger of the two companies for a value of \$160 Million in cash and stock.

Director of Product Development and Senior Scientist

1981-1985

The Liposome Company, Princeton, New Jersey

- Co-Founder and a principal shareholder of the Liposome Company, Inc.
- Designed, patented and developed numerous novel liposomes and other drug delivery systems for testing and evaluation as pre-clinical and clinical formulations for the treatment of diseases in animals and man.
- Directed and managed the pharmaceutical product development and pilot scale-up activities of the Company for parenteral liposome drug formulations.
- Directed and managed clinical trials programs for the Company's veterinary products for liposome encapsulated anti-microbial agents.
- Responsible for the design, construction and operation of an FDA approved Laboratory Animal Facility and a Bacteriology Laboratory for the growth and isolation of human and animal pathogenic bacteria used in animal models for disease within the company.
- Managed and successfully negotiated corporate joint-development ventures for the creation of new pharmaceutical preparations with pharmaceutical and veterinary companies in Europe and the US resulting in R&D support of over \$10 Million and an equity investment of \$12 Million by Elanco (Eli Lilly Animal Health Company).
- Completed a successful \$60 Million IPO in 1985. Company was acquired by Elan Pharmaceuticals in 2000 for \$1.3 Billion in cash and stock.

Clinical Microbiologist

1976-1977

Cunningham Pathology Associates, Birmingham, Alabama

- Clinical Microbiologist working in the division of determinative bacteriology.

Other Non-Profit Experience:

Youth Empowered to Achieve! (YEA Program)

1998-2006

Tampa, Florida

- Serves on the Board of Directors for a non-profit organization aimed at developing partnerships within the community to empower disadvantaged and at-risk female minorities with opportunities to develop life skills in entrepreneurship.

Florida Gulf Coast Life Sciences Initiative

1997-2005

Tampa, Florida

- Served on the steering committee for the public/private partnership for supporting the Life Sciences business sector in southwest Florida.

Tampa Bay Technology Forum

2000-2004

Tampa, Florida

- Served on the Board of Directors. This is a public/private partnership linking the various sectors of the information technology businesses in the Tampa Bay area.

Computer Mentors

1997-2005

Tampa, Florida

- Served on the Board of Directors for a non-profit organization providing educational and training opportunities to disadvantaged and at-risk minority youth.

Kauffman Fellows (Center for Venture Education) Educational Advisory Board

1999-2005

Shawnee Mission, Kansas

- Served on the Educational Board of Advisors. The Kauffman Fellows Program provides training and education for venture capital professionals through a two year fellowship program.

Board of Directors

1999-2002

BioFlorida, Inc. Gainesville, Florida

- Served on the Board of Directors for the Life Sciences business sector in Florida.

Board of Directors

2002-2003

Tampa Chamber of Commerce, Tampa, Florida

- Served on the Board of Director for the Tampa Chamber of Commerce committee which provides supports and provides services to the Tampa Bay business community.

Co-Chair Venture Capital Committee

2002-2003

Tampa Chamber of Commerce, Tampa, Florida

- Co-Chaired the Tampa Chamber of Commerce committee which provides interface with the venture capital community and angel investors network

Board of Tampa Directors

1999-2002

TechVillage Tampa Bay, Tampa, Florida

- Served on the Board of Directors for the Tampa Bay community and business incubator.

Director of Entrepreneurial Studies and Visiting Professor in Entrepreneurship
1997-2000

College of Business Administration

Departments of Management and Marketing

University of South Florida

- Served on the Steering Committee for “USF’s Celebrate Entrepreneurship Dinner”, the Annual fund raising event to provide scholarships for business students at USF.
- Served as judge for the Hillsborough and Pinellas County Regional Science and Engineering Fairs and as a judge for the State of Florida Annual Science and Engineering Fair.
- Served as a judge for the Hillsborough Distributive Education Clubs of America (DECA) annual business plan competition for Hillsborough County.

Chairman of Board of Directors, Vice-Chairman of Science Center Endowment Fund
1992-1998

The Science Center of Pinellas County, Saint Petersburg, Florida

- Served on Board of Directors 1992 – 1998.
- Served as Vice-Chairman of Board of Directors 1994-1995.
- Served as Chairman of the Board of Directors 1995-1997.
- Served on Endowment Fund Committee 1994-1998.

EDUCATION

- 1995 **University of South Florida**, Tampa, Florida
Advanced Studies in Educational Theory College of Education
- Completed advanced coursework in educational theory, curricula development and educational pedagogy
- 1987 **Rutgers University & Bristol College**, New Brunswick, New Jersey & Knoxville, Tennessee
Masters in Business Administration
- Successfully completed MBA program magna cum laude in 1987 through a collaborative agreement between the two graduate schools of business, degree awarded from Bristol College
- 1982 **School of Veterinary Medicine, Auburn University**, Auburn, Alabama
Ph.D. in Veterinary Medicine – Immunology/Immunochemistry
- Successfully completed an interdisciplinary Doctoral Program in Veterinary Medicine in the area of Immunology/Immunochemistry.
 - Ph.D. Dissertation: “Modulation of Immune Responses in vitro by Liposomes Containing Alpha-Tocopherol,” Auburn University
- 1980 **School of Veterinary Medicine, Auburn University**, Auburn, Alabama
Masters of Science, Pharmacology Emphasis in Physiopharmacology
Completed studies leading to Masters in Pharmacology with special emphasis in Comparative Pharmacology and Veterinary Physiology
- M.S. Thesis: “Clinical Evaluation of Phospholipid Vesicles (Liposomes) as Delivery Vehicles for Digoxin in Male Dogs and the Effects of Conjoint Phenobarbital Therapy Upon Digoxin Serum Levels,” Auburn University
- 1977 **Samford University**, Birmingham, Alabama
Honors B.S. – Biology/Chemistry
- Graduated with honors having completed an Honors Program Degree curriculum, cum laude and having completed three years of independent undergraduate research on the effects of testicular tissue transplantation on the incidence rates of endocrine tumor growth of ovarian tumors in rats.
 - Undergraduate Honors Thesis: “Endocrine Tumors in Rattus norvegicus, S.A.F./S.D.: Studies of Pseudo-encapsulated Fibrosarcomas, Testicular Tumors and Granulosa-Theca Neoplasms,” Samford University

PROFESSIONAL ORGANIZATIONS
(Past and Present Affiliations)

Alabama Academy of Sciences

American Association of Clinical Chemists

American Association of Veterinary Immunologists

American Chemical Society

American Management Association

American Society of Cosmetic Chemists

American Society for Engineering Education

American Society for Microbiology

Association of Southeastern Immunologists

Controlled Release Society

Omega Tau Sigma

Omicron Delta Kappa

Sigma Xi

United States Association of Small Business and Entrepreneurship

Who's Who in America

Who's Who in American Education

Who's Who in Finance and Business

Who's Who in Science and Engineering

Who's Who in the South and Southwest

Who's Who in the World

PRODUCTS DEVELOPED AND COMMERCIALIZED

I. The Liposome Company, Inc., Princeton, New Jersey

1. Ambizome®:	➤ Intravenous liposome encapsulated formulation of Amphotericin B
2. Doxil®:	➤ Intravenous liposome encapsulated formulation of doxorubicin sulfate
3. Gentasome®	➤ Intravenous liposome encapsulated formulation of Gentamicin sulfate

II. CooperBiomedical, Inc., Malvern, Pennsylvania

1. Prophet®	➤ Physician Office based random-access clinical drug analyzer
2. Aries®	➤ Physician Office based random-access clinical blood analyzer
3. Assist®	➤ Physician Office based random-access clinical analyzer
4. ETS® Analyzer	➤ Laboratory based random access drugs of abuse clinical analyzers joint venture with Syva Syntex

III. Lipogen, Inc., Knoxville, Tennessee

1. EZ Access® Autoimmune Profile	➤ Genetically engineered autoimmune dipstick assay for screening patient's serum for 7 autoimmune disorders
2. EZ Access® Arthritis Profile	➤ Dipstick assay for screening patient's serum for Rheumatoid Arthritis
3. EZ Access® Lupus Assay	➤ Microtiter assay for systemic Lupus Erythematosus measuring anti La antibody in patient's serum
4. EZ Access® Sjogren's Assay	➤ Microtiter assay for Sjogren's Syndrome measuring anti Ro antibody in patient's serum
5. EZ Access® MCTD Assay	➤ Microtiter assay for mixed connective tissue – Disease measuring Anti RNP antibody in patient's serum

IV. Fountain Pharmaceuticals, Inc., Largo, Florida

1. Lyphazome® Penetrating Sunblock, SPF8	➤ Micro-encapsulated sunscreen spray
2. Daylong® Sunscreen Spray, SPF8	➤ Micro-encapsulated waterproof sunscreen spray
3. Lyphazome® Moisturizing Sunscreen SPF 15	➤ Micro-encapsulated water-proof sunscreen lotion
4. Lyphazome® Moisturizing Sunscreen, SPF 30	➤ Micro-encapsulated water-proof sunblock lotion
5. Lyphazome® Penetrating moisturizer cream	➤ Micro-encapsulated skin protection cream
6. Lyphazome® Penetrating Moisturizer Cream (oil free)	➤ Micro-encapsulated skin protection cream for sensitive skin.
7. Lyphazome® Aqua Face and Body Lotion	➤ Micro-encapsulated hand and body lotion
8. Lyphazome® Penetrating Moisturizing Body Lotion (oil free)	➤ Micro-encapsulated body lotion for sensitive skin
9. Octazome® Eyeliph:	➤ Micro-encapsulated lotion for smoothing fine lines around eyes
10. Octazome® Serum Vitae	➤ Micro-encapsulated facial lotion
11. Octazome® Botanical Moisturizer with Collagen	➤ Micro-encapsulated collagen body moisturizer
12. Octazome® Botanical Moisturizer with Vitamin E	➤ Micro-encapsulated Vitamin E body moisturizer

13. Octazome® Botanical Night Formula	➤ Micro-encapsulated formulation of anti oxidants or nightly application on face
14. Octazome® Cleanser and Exfoliant with Botanicals	➤ Micro-encapsulated skin cleanser
15. Octazome® Body Moisturizer	➤ Micro-encapsulated body lotion
16. Lyphazome Redisorb®	➤ Absorbent sponge burn wound dressing-
17. Lyphazome Redi Release®	➤ Absorbent sponge burn wound dressing with non-adherent, gas permeable membrane coating

**V. Brocades/Yamanouchi, Amsterdam, Netherlands
(Products jointly developed with and marketed in Europe as:)**

1. Lyphazome® Cream Cortisone	➤ Micro-encapsulated Cortisone formulation
2. Lyphazome® Antibacterial Gertamicin Cream	➤ Micro-encapsulated Gertamicin Sulfate formulation
3. Daylong® Moisturizing Sunscreen with Vitamin E SPF15	➤ Micro-encapsulated sunscreen with vitamin E ➤ antioxidant
4. Daylong® Moisturizing Sunscreen with Vitamin E SPF 30	➤ Micro-encapsulated sunscreen with Vitamin E ➤ antioxidant
5. Daylong® Aftersun Gel	➤ Micro-encapsulated gel to cool sunburned skin
6. Daylong® Lipbalm, SPF 15	➤ Micro-encapsulated sunscreen lip balm

**VI. Spirig, AG, Geneva, Switzerland
(Products developed for and marketed in Europe as:)**

1. Octazome® Penetrating Sunblock, SPF8	➤ Micro-encapsulated sunblock spray for snow skiers
2. Octazome® Moisturizing Sunscreen, SPF 15	➤ Micro-encapsulated waterproof sunscreen for snow skiers
3. Octazome® Lipbalm with Vitamin E, SPF 30	➤ Micro-encapsulated water-proof sunscreen for snow skiers
4. Octazome® Lipbalm with Vitamin E, SPF 15	➤ Micro-encapsulated lipbalm sunscreen with antioxidant vitamin E for snow skiers

**VII. Sally Hansen, Inc., Baltimore, Maryland
(Product developed for and marketed as:)**

1. Hard-as-Nails® with Lyphazomes®	➤ Clear-coat for nail containing Lyphazome® microcarriers
------------------------------------	---

**VIII. Solvay/Duphar, AG, Gist, Netherlands
(Product developed with and marketed in Europe as:)**

1. Liquizome®	➤ Micro-encapsulated aqueous topical formulation of Silver Sulfadiazine
---------------	---

PUBLICATIONS AND PATENTS

2008

- Fountain, M.W., Marshall, W.G., Budd, S.R. 2008. Interdisciplinary Learning Frameworks for Entrepreneurship Students: Traversing Disciplines Across Campus. Presented at the 2008 International Meeting in Honolulu, HI.

2007

- Fountain, M.W. 2007. Successful Models for Interdisciplinary Collaboration in Technology Entrepreneurship. Proceedings of the 2007 USASBE National Meeting.

2006

- Fountain, M.W., Marshall, W.G., Budd, S. R. 2006. Interdisciplinary Learning Frameworks for Science, Engineering, and Business Student Teams. Presented at the 2006 National AAC&U meeting in Phoenix, AZ.
- Henley, G., Tihor, M., Fountain, M.W. 2006. The Impact of Life Cycle Stage on Locational Dynamics in the Life Sciences Industry. Proceedings of the 2006 USASBE National Meeting.
- Marshall, W.G., Budd, S.R., Givens, P.E., and Fountain, M.W. 2006. Experiential Learning in Entrepreneurship Education: The Kauffman Entrepreneur Internship Program Experience at the University of South Florida. Proceedings of the 2006 USASBE National Meeting.
- Marshall, W.G., Budd, S.R., Givens, P.E., and Fountain, M.W. 2006. Development and Initiation of a Master's of Science Degree in Entrepreneurship in Applied Technologies. Proceedings of the 2006 USASBE National Meeting.
- Henley, L.G., Tihor, M. and Fountain, M.W. 2006. Locational Dynamics in the Life Sciences Industry. Proceedings of the 2006 USASBE National Meeting.
- Givens, P.E., Fountain, M.W., Marshall, W.G., Henley, L.G., and Budd, S.R. 2006. Entrepreneurship at USF is Helping to Build New Manufacturing Base for Florida. Proceedings of the 2006 FAIM Meeting.
- Marshall, W.G., Maldonado, K., Simmons, P.T., Fountain, M.W., Marty, P.J., and Klasko, S.K. 2006. Technology Development in the Academic Medical Center.
- US Patent: "Nanolipidic Particles"

2005

- Marshall, William G., Budd, Stephen, R., Givens, Paul, E., and Fountain, Michael W. 2005. Entrepreneurial Assessment of Technology Commercialization and New Venture Formation Using a Decision Matrix to Direct Commercialization Strategies. Proceedings of the 2005 USASBE National Meeting.
- Marshall, W.G., Budd, S.R., Givens, P.E. and Fountain, M.W. 2005. Technology Entrepreneurship Education: The University of South Florida Philosophy, Pedagogy and Curriculum. Proceedings of the 2005 Conference for Industry and Education Collaboration.

2004

- Fountain, Michael W., William G. Marshall, Jr., Stephen R. Budd, and Paul E. Givens. 2004. Abstract on "The Development and Implementation of an Inter-Disciplinary Graduate Course Linking Engineering, Medical, and Business Students with University Research Investigators to Develop Strategies to Commercialize New Technologies" Proceedings of the American Society for Engineering Education (ASEE) 2004.
- Fountain, Michael W., William G. Marshall, Jr., Stephen R. Budd, Paul E. Givens, Paul J. Solomon, Anthony Mendes, Nicole L. Mack, Kevin Brown, Wei-Yu Liu, Anand Nagle. 2004. Abstract on "The Educational and Training Needs of Biotechnology Companies" Proceedings of the American Society for Engineering Education (ASEE) 2004.

1999

- Streeter, R.B., Hagen, G., Shannon, K., Fountain, M.W., Budd, S.R. and Brass, W., 1999. Report on the Medical Products and Biomedical Industry. University of South Florida Press, Tampa, FL. pp1-30. 1999.
- US Patent: “Encapsulation of Active Ingredients into Lipid Vesicles”
- US Patent: “Methods for Dehydrating, Storing and Rehydrating Liposomes”

1998

- US Patent : “Encapsulation of Ionizable Agents in Liposomes”

1996

- US Patent: “Method of Dehydrating Liposomes Using Protective Sugars”

1995

- US Patent: “Vaccine Delivery System & Shelf-Stable Precursor Solution for Remote Encapsulation of Active Ingredients”
- US Patent: “Aerisolizable Solvent Dilution Microcarriers: Their Preparation and Use”
- US Patent: “Remote Loadable Liposome Precursor”

1994

- US Patent: “Localized Delivery Using Fibronectin Conjugates”

1993

- US Patent: “Solvent Dilution Microcarriers”
- Brownlie, R.M., Brahmabatt, H.N., White, D.C., Fountain, M.W., Rhode, M., Wahland, J. and Timmis, K.N. 1993. Stimulation of Secretory Antibodies Against Bordetella pertussis Antigens in the Lungs of Mice After Oral and Intranasal Administration of Liposome-Incorporated Cell-Surface Antigens. Microbial. Pathogenesis 14: 149-160.
- Guzman, L.A., Molinari, G., Fountain, M.W., Rhode, M., Timmis, K.N. and Walker, M.J. 1993. Antibody Responses in Serum and Respiratory Tract of Mice Following Oral Vaccination with Liposomes Coated with Filamentous Hemagglutinin and Pertussis Toxin. Infection and Immunity. 61: 573-549.

1992

- US Patent: “Dressing Material Having Absorbed Thereon a Solvent Dilution Microcarrier Precursor Solution”
- Fountain, M.W., Crow, W. and Rogmans, M.H. 1992. Clinical Evaluations of Liposome-Encapsulated Sunscreens. Proceed. 9th International Academy of Dermatology. 9:235.

1991

- US Patent: “Enhancement of Pharmaceutical Activity”

1990

- US Patent: “Drug Preparations of Reduced Toxicity”
- US Patent: “Sustained Release Wound Dressing Containing Solvent Dilution Microcarriers”

1989

- US Patent: “Methods for Making Solvent Dilution Microcarriers”

1988

- US Patent: “Improved Methods for Preparation of Small Unilamellar Liposomes”
- US Patent: “Anti-infective Prophylaxis”

1987

- US Patent: “Therapeutic Treatment by Intramammary Infusion”
- US Patent: “Preparation of Liposomes Having Equal Solute Distribution”

1986

- US Patent: “Therapeutic Treatments by Intramammary Infusions of Antibiotic Loaded Liposomes”
- US Patent: “Controlled Release of Liposomes-Encapsulated Compounds”
- US Patent: “Lipid Matrix Carriers for Use in Drug Delivery Systems”
- US Patent: “Lipid Vesicles Prepared in a Monophase”
- US Patent: “Dehydrated Liposomes”

1985

- US Patent: “Liposome Drug Preparations of Reduced Systemic Toxicity”
- US Patent: “Stable Pleurilamellar Vesicles: Their Preparation and Use”
- US Patent: “Monophasic Vesicles: Their Preparation and Use”
- US Patent: “Enhancement of Anti-microbial Activity by Incorporating Mixtures of Anti-microbial Agents into Lipid Vesicles”
- Fountain, M.W., Weiss, S.J., Fountain, A.G., Shen, A. and Lenk, R.P. 1985. Treatment of Brucella canis and Brucella abortus in vitro and in vivo by Stable Pleurilamellar Vesicle Encapsulated Aminoglycosides. *J. Infect. Dis* 152:529-536.

1984

- US Patent: “Uses of Lipid Matrix Carriers as Drug Delivery Vehicles”
- Dees, C., Fountain, M.W., Taylor, J. and Schultz, R.D. 1984. Use of Liposome Encapsulated Antibiotics to Kill Intracellular Bacteria. *Vet. Immunol. Immunopathology*. 54: 216-223.
- Fountain, M.W., Janoff, A.S., Popescu, M.C. and Ostro, M.J. 1984. Controlled Release of Aminoglycosides from Liposomes Following Ocular Administration. In: *Symposium of Controlled Release of Bioactive Materials, Book of Abstracts, Controlled Release Society of 1984 Annual Meeting*.

1983

- US Patent: “Methods of Drying Preservation of Liposomes”
- US Patent: “Drug Preparations of Reduced Toxicity: Methods of Preparation”
- Fountain, M.W. 1983. Applications of a Technique for Rapid Separation of Liposomes from Cells in Suspension Culture. C.R.C. Press, Ed. G. Gregoriadis. pp 189-197.
- US Patent: “Methods for the Treatment of Intracellular Infections Using Liposome Encapsulated Antimicrobial Agents”
- US Patent: “Improved Methods for Conjugate Formation Using NHS-Lipid Esters”

- Fountain, W. W. and Schultz, R.D. 1982. Interaction of Multilamellar Phospholipid Vesicles with Bovine Lymphocytes: Effects of Alpha-Tocopherol and Cholesterol on Lymphocyte Blastogenesis. *Mol. Immunol.* 19: 39-64.
- Fountain, M.W., Ganjam, V.K. and Schultz, R.D. 1982. Liposome Carrier Vehicle for Triiodothyronine. *Clin. & Exp. Pharm. & Physiol.* 9: 101-105.
- Fountain, M. W., and Schultz, R.D. 1982. Effects of Mitogen Preincubation and Liposome Phospholipid Concentration on the Blastogenic Response of Bovine Lymphocytes to Phytohemagglutinin. *Immunobiol.* 159: 780-785.
- Dees, C., Fountain, M.W., Swango, L.J., Panagala, V. and Schultz, R.D. 1982. An ELISA for Detecting Antibody in Canine Serum Against Bordetella bronchiseptica. *Vet. Immunol. Immunopathology.* 3: 539-545.
- Fountain, M.W. and Schultz, R.D. 1982. Introduction of Alpha-Tocopherol into Bovine Lymphocytes by Lipid Vesicles: Effects of Phospholipid Composition on Alpha-Tocopherol Transfer. *Immunobiol.* 163: 31-35.
- Fountain, M.W., Dees, C., Weete, J.D. and Schultz, R.D. 1982. Interactions of Multilamellar Phospholipid Vesicles with Bovine Lymphocytes: Effects of Alpha-Tocopherol on Lymphocyte Blastogenesis. *Mol. Immunol.* 19: 1491-1498.
- Fountain, M.W., Dees, C. and Schultz, R.D. 1982. Pharmacokinetics and Pharmacodynamics of Liposome-Encapsulated Gentamicin in Calves. *Proceedings of the NATO International Institute for Advanced Studies of Targeting of Drugs.* P. 12.
- Fountain, M.W., Dees, C. and Schultz, R.D. 1982. Regulation of Bovine Lymphocyte Response to Phytohemagglutinin by Liposomes Containing Unsaturated Phospholipids and Alpha-Tocopherol. *FASEB Proceed. Abs.* 6028.
- Fountain, M.W., Dees, C. and Schultz, R.D. 1982. Immunopotential of Phagocytosis by Canine Monocytes of Liposomes Containing High Concentrations of Alpha-Tocopherol. *SEIC Proceed.* p. 15.
- Dees, C., Fountain, M.W., Pedersoli, W. M. and Schultz, R. D. 1982. Liposomes: An Improved Delivery Vehicle for Aminoglycosides. *SEIC Proceed.* p.16.
- Fountain, M.W., Wyckoff, J. T., Ganjam, V. K. and Schultz, R. D. 1982. Liposome Delivery of Triiodothyronine and Thyroxine: An Evaluation of the Biochemical, in Vitro and in Vivo Parameters for Use as a Delivery Vehicle in Dogs. *ACVIM Proceed.* p. 53.
- Kercret, H., Chiovetti, R., Fountain, M.W., and Segrest, J.P. 1983. Plasma Membrane-Mediated Leakage of Liposomes Induced by Interaction with Murine Thymocytic Leukemia. *Biochim. Biophys. ACTA.* 733:65-74.

1981

- US Patent: "Methods for the Treatment of Brucella Infections Using Liposome Encapsulated Aminoglycosides"
- Fountain, M.W., Pedersoli, W.M., Ravis, W.R. and Ganjam, V.K. 1981. Serum Concentrations of Digoxin Entrapped Liposomes after Intravenous Administration in Dogs. *Clin. & Exp. Physiol. & Pharm.* 6:549-554.
- Fountain, M.W., Pedersoli, W.M., Ganjam, V.K. and Ravis, W.R. 1981. Serum Digoxin Concentrations in Dogs before and During Concomitant Treatment with Phenobarbital: Oral, Oral Liposome, and Intravenous Liposome-Encapsulated Routes of Administration of Digoxin, *Drug & Chem. Toxicol.* 15: 120-126.
- Fountain, M.W. and Schultz, R.D. 1981. Effects of Liposomes Sensitized with a Brucella abortus Soluble Antigen on the Blastogenic Response of Lymphocytes from Brucella Infected and Normal Cattle. *Current Microbiol.* 6: 61-64.
- Fountain, M.W., Ganjam, V.K. and Schultz, R.D. 1981. Interaction of Canine Monocytes with a Liposome Carrier Vehicle for Triiodothyronine. *Vet. Immunol. Immunopath.* 2: 401-409.
- Fountain, M.W., Wyckoff, J.E., Ganjam, V.K. and Schultz, R.D. 1981. Effects of the Intramuscular Delivery of Triiodothyronine and Thyroxine Entrapped Within Liposomes on Serum Concentrations in Thyroidectomized Dogs. *Current Therap. Res.* 19: 897-905.
- Dees, C., Fountain, M.W. and Schultz, R.D. 1981. Evidence for a Leukocytolysin Produced by Vibrio vulnificus (Lactose Positive Vibrio). *J. Al. Acad. Science.* 42: 171-178.

- Fountain, M.W., Dees, C. and Schultz, R.D. 1981. Intracellular Killing of Staphylococcus aureus by Liposomes Containing Aminoglycosides: A Comparison of Liposome Surface Charge and Liposome Entrapment of Amikacin, Tobramycin, Gentamicin and Kanamycin. *Current Microbiol.* 6: 373-376.
- Fountain, M.W. and Schultz, R.D. 1981. Regulation of Bovine Lymphocytes by Liposomes Containing Alpha-Tocopherol. *FASEB Proceed. Abs.* 1939.
- Fountain, M.W. and Schultz, R.D. 1981. Effect of Liposome Composition on Bovine Blastogenesis. *ASM Proceedings, Abs.* 849.
- Fountain, M.W. and Dees, C. and Schultz, R.D. 1981. Killing of Intraphagocytic Staphylococcus aureus in Canine Monocytes by Charged and Neutral Liposomes Containing Aminoglycosides: An Examination of Intraphagocytic Killing and Prophylactic Protection. *ACVIM Proceed.* p. 46.
- Dees, C., Fountain, M.W. and Schultz, R.D. 1981. Liposome Antibiotic Activated Phagocytes (LAAP): Determination of Aminoglycoside Entrapment in Charged and Neutral Liposomes by Radio Enzymatic Assay and Delivery to Bovine Phagocyte Cells. *ICAA Symposium Proceed.* p. 31.
- Fountain, M.W. and Schultz, R.D. 1981. Effects of Liposomes on Bovine Polymorphonuclear Cell Functions. *J. Al. Acad. Sciences.* 42: 259.
- Dees, C., Fountain, M.W. and Schultz, R.D. 1981. Characterization of a Leukolysin Produced by Vibrio vulnificus. *J. Al. Acad. Sciences.* 42: 271.

1980

- Fountain, M.W., Chioveti, R., Kercret, H.D. and Segrest, J. P. 1980. Interactions of Liposomes with Murine Lymphocytes in Suspension Culture: A Rapid Assay Technique. *Biochim. Biophys. ACTA.* 494: 420-425.
- Fountain, M. W., Pedersoli, W.M., Ganjam, V.K. and Ravis, W.r. 1980. Phosphatidylcholine-Digoxin Liposome Drug Delivery Vehicle: An Evaluation of the Intramuscular Route of Administration in Dogs. *Current Ther. Res.* 28:558-561.
- Fountain, M.W., Pedersoli, W.D. and Ravis, W. R. 1980. Liposome Delivery Vehicle for Digoxin in Dogs. *ACVIM Proceed.* p. 113.
- Fountain, M.W., Pedersoli, W.D. and Ravis, W.R. 1980. Effects of Conjoint Treatment with Digoxin-Liposomes and Oral Phenobarbital on the Serum Digoxin Levels in Dogs. *ACVIM Proceed.* p. 114.
- Fountain, M.W. and Schultz, R.D. 1980. Effects of Varying Lipid and Cholesterol Composition of Liposomes Containing Alpha-Tocopherol on Response of Bovine Lymphocytes in Vitro. *SEIC Proceed.* p. 11.

1978

- Fountain, M.W. 1978. 17-Ketosteroid and Blood Urea Nitrogen Levels in Tumor Bearing Rats Following Adrenal Auto-transplantation. *BIOS.* 19: 109-113.
- Fountain, M.W. 1978. The Effects of Spleen-to-Testes Auto-transplantation on the Development of Testicular Tumors. *BIOS:* 19: 55-59.
- Fountain, M.W. 1978. The Occurrence of Spontaneous Malignant Mammary Tumors of Fibrous Origin in a Breeder Colony of Rattus norvegicus. *BIOS.* 19: 15-19
- Fountain, M.W. and Segrest, J.P. Liposome-Cell Interactions: A Rapid Assay for Cells in Suspension Culture. *Al. J. Med. Sciences.* 15: 272-2
- Fountain, M.W., Chioveti, R. and Segrest, J.P. 1978. Association of Apotransferrin with Glycophorin. *J. Cell Biol.* 79: 64.

1977

- Fountain, M.W. 1977. Uses of Laboratory White Rats in Undergraduate Research Projects. *J. Al. Acad. Sciences* 17:133-139.
- Fountain, M.W. 1977. Fountain M.W. 1977. Endocrine Tumors in Rattus norvegicus: Studies of Pseudo-encapsulated Fibrosarcomas, Testicular Tumors and Granulosa-Theca Cell Neoplasms. Undergraduate Honors Dissertation.

- Fountain, M.W. 1977. The Use of Laboratory Rats as Models for Endocrine Tumor Research. J. Al. Acad. Sciences. 38:380.

1976

- Dooley, W. C. and Fountain, M. W. 1976. The Effects of Adrenal Transplantation on the Growth of Ovarian Tumors. J Al. Acad. Sciences. 36:51-60.
- Fountain, M.W. 1976. Spontaneous Development of Mammary Tumors in Laboratory Rats. J. Al. Acad. Sciences. 37:266.

1973

- Fountain, M. W. 1973. The Universe: Is There a Unified Model? J. Al. Acad. Sciences. 32:32-34

1972

- Fountain, M. W. 1972. A Study of Quasi-Stellar Objects with Respect to Kionomatter-Antimatter Annihilation and Gravitational Collapse. J. Al. Acad. Sciences. 31:51-58

RESEARCH GRANTS AND CONTRACTS

2007:

- Hillsborough County, \$50,000. Entrepreneurship Support

2006:

- Hillsborough County, \$50,000. Entrepreneurship Support

2005:

- Hillsborough County, \$50,000. Entrepreneurship Support
- Ewing Marion Kauffman Foundation, \$150,000. National Consortium for Life Sciences Entrepreneurship (NCLSE)

2004:

- Hillsborough County, \$50,000. Entrepreneurship Support
- Ewing Marion Kauffman Foundation, \$ 145,000. National Consortium for Life Sciences Entrepreneurship (NCLSE).
- Ewing Marion Kauffman Foundation, \$10,000. Student Internship Program
- Ewing Marion Kauffman Foundation, \$40,000. Life Sciences Post-Doctoral Training Program
- USF Partnership for Life Sciences Post-Doctoral Training Program, \$40,000
- National Sciences Foundation, Partnership for Innovation Grant, \$61,000

2003:

- Ewing Marion Kauffman Foundation, \$10,000. Student Internship Program in Entrepreneurship
- Ewing Marion Kauffman Foundation, \$140,000. National Consortium for Life Sciences Entrepreneurship (NCLSE)
- Hillsborough County, \$50,000. Entrepreneurship Support

2002:

- Ewing Marion Kauffman Foundation, \$25,000. Student Internship Program in Entrepreneurship
- Ewing Marion Kauffman Foundation, \$20,000. Student Internship Program in Entrepreneurship
- Ewing Marion Kauffman Foundation, \$40,000. Post-Doctoral Residency Program in Life Science Entrepreneurship
- Ewing Marion Kauffman Foundation, \$120,000. National Consortium for Life Sciences Entrepreneurship (NCLSE)

2001:

- Ewing Marion Kauffman Foundation, \$25,000. Student Internship Program in Entrepreneurship
- Ewing Marion Kauffman Foundation, \$100,000. Institute for Life Sciences Entrepreneurship
- Ewing Marion Kauffman Foundation, \$20,000. Student Internship Program in Entrepreneurship

2000:

- Ewing Marion Kauffman Foundation, \$35,000. Student Internship Programs in Entrepreneurship

1999:

- Ewing Marion Kauffman Foundation, \$43,750. Student Internship Programs in Entrepreneurship
- Hillsborough County, \$50,000. Economic Development Grant for Technology-based Companies
- Enterprise Florida, \$200,000. Operation of Innovation and Commercialization Center

1998:

- Enterprise Florida, \$200,000. Operation of Innovation and Commercialization Center
- Hillsborough County, \$50,000. Economic Development Grant for Technology-based Companies
- Ewing Marion Kauffman Foundation, \$37,500. Student Internship Program in Entrepreneurship

1997:

- Enterprise Florida, \$200,000. Operation of Innovation and Commercialization Center
- Department of Energy, \$150,000. Assistance to Defense Technology Privatization
- Hillsborough County, \$50,000. Economic Development Grant for Technology-based Companies

1996:

- Enterprise Florida, \$200,000. Operation of Innovation and Commercialization Center
- Department of Defense, \$75,000. Operation of Defense Transition Program in Tampa

1993:

- Brocades Pharma BV, \$100,000. Development and Testing of Liposome Encapsulated Sunscreens with SPF of 30 or Higher.
- Dermick, \$50,000. Development of a Line of Moisturizers Using Liposome Encapsulated Emollients for Use in Burn Patients.
- Ethicon, \$50,000. Development of New Anti-microbial Topical Liposome Formulations.
- J & J Consumer Group, \$50,000. Development of Liposome Encapsulated Products Hand Lotions.
- Leo Pharmaceuticals, \$150,000. Development and Testing of New Liposome Encapsulated Antibiotic Agents

1992-1994:

- Solvay Duphar, \$2,500,000. Development and Testing of Liposome Encapsulated SSD Spray for Treatment of Burn Patients.
- Brocades/Yamanouchi: (Netherlands): \$3,600,000. Co-development of Novel Liposome Formulations for Topical Administration.

1992:

- Beirsdorf, \$150,000. Development of Liposome Encapsulated Silver Sulfadiazine.
- Calgon Vestal, \$50,000. Development of Controlled Release Wound Dressing for Delivery of Liposome Encapsulated Antimicrobial Agents.
- Glaxo, \$150,000. Development of Novel Liposome Encapsulated Formulations of Super High Potency Corticosteroids.
- Immunex, \$50,000. Exploratory Program to Encapsulate A Proprietary Wound Healing Factory/Growth Factor.
- Le Oreal, \$50,000. Development of Non-Irritating Liposome Based Sunscreens.
- Stiffel, \$25,000. Development of Liposome Encapsulated Formulations to Control the Itching of "Jock Itch".
- Hoffman-LaRoche, \$35,000. Development of Novel Liposome Formulations for the Encapsulation of New Chemotherapeutic Agents.

1991-1992:

- Warner Lambert, \$250,000. Development of Novel Liposome Containing Oral Hygiene Products of Long Acting Therapeutic Duration.

1991:

- Astra Pharmaceuticals, \$75,000. Development of Transdermally Active Delivery System for EMLA Using Liposome Encapsulated Anesthetics.
- Del Laboratories, \$25,000. Development of Liposome Topical Replacement for Oralgel.
- Kabi Pharmacia, \$100,000. Development and Testing of Intravenous Liposome Vitamin Formulations.
- Richardson Vicks, \$35,000. Development of Novel Liposome Intranasal Delivery Systems for Treatment of Respiratory Diseases.
- Rhone-Poulenc Rhorer, \$50,000. Development of Intranasal Liposome Formulations of Recombinant Calcitonin.
- Schering-Plough, \$50,000. Development of 3 New Liposome Formulations for the Treatment of Systemic Fungal Infections.
- Westwood Squibb, \$50,000. Development of Liposomes Impregnated Sutures Containing Encapsulated Antibiotics.

1990:

- Dexide, \$50,000. Development of Liposome Encapsulated Surgical Scrub Agents.
- Genetic Laboratories, (Dupont) \$80,000. Development of Controlled Absorbency Dressing for Burn Patients.
- Janssen, \$100,000. Preparation of Experimental Liposome-Encapsulated Formulations of Itraconazole.
- Marion Laboratories, \$100,000. Development and Testing of Liposome Encapsulated Sulfamylon Liposome-encapsulated Product.

1989:

- Helen Curtis, \$50,000. Exploratory Research Program to Examine the Possible Uses of Liposomes as Hair Conditioning Agents.
- Dow B. Hickam, \$75,000. Development of Liposome Forming Agent to Be Used in Foam Debridement Products
- Jobst, \$50,000. Exploratory Research Program for Development of Novel Therapeutic Formulations for Management of Burn Patients.

1987:

- SBIR Phase 1 Grant, \$50,000. Development of Liposome Enhanced Enzyme Immunoassays for Detection of Autoimmune Antibodies.
- Enzo Biochem, \$75,000. Development of Novel ELISA Assays with Increased Signal Amplification

1986:

- SBIR Phase 1 Grant, \$50,000. Development of Dipstick ELISA Assays for the Detection and Monitoring of Autoimmune Antibodies in Lupus Patients Using Recombinant Autoimmune Antigens.
- Dupont, \$150,000. Development of Novel Autoimmune Assays Using Recombinant Autoimmune Antigens.
- Gene-Track, \$100,000. Development of Liposome Amplified Immunoassays.

1984-1985:

Bristol Animal Health, \$1,000,000. Development of Liposome Drug Delivery System for Treatment of Brucellosis in Cattle and Dogs and for the Treatment of “Pink-Eye” in Cattle.

1982-1984:

- ELANCO (Eli Lilly Animal Health Company), \$8,400,000. Development of Novel Liposome Encapsulation Systems for Delivery of Anti-microbial Agents in Animals.

1980-1981:

- United States Department of Agriculture, \$42,000. Liposome Treatment for “Shipping Fever”.

1977-1978:

- National Cancer Institute, \$18,500. Evaluation of Glycophorin as Receptor for Transferrin.