

**CURRICULUM VITA**

**Michael W. Fountain**

**Contact Numbers**

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**Education and Awarded Fellowships**

**Samford University**

**1973-1977 Honors B.S. Biology**

**Auburn University, School of Veterinary Medicine**

**1978-1980 M.S. Pharmacology and Physiology**

**Auburn University, School of Veterinary Medicine**

**1980-1982 Ph.D. Immunology**

**Bristol University**

**1986-1987 M.B.A.**

**University of South Florida**

**1994-1995 Educational Theory**

**National Academy of Inventors**

**Fellow in the National Academy of Inventors**

**2014**

**United States Association for Small Business and Entrepreneurship**

**Justin Longenecker Fellow**

**2016**

**ACADEMIC APPOINTMENTS**

**Auburn University**

1978-1980     USDA Research Fellow  
1979-1980     Teaching Assistant  
1980-1982     College of Veterinary Medicine Doctoral Research Fellow

**Bristol University**

1988-1989     Assistant Professor

**Hillsborough Community College**

1993-1996     Adjunct Professor

**University of Paris**

1999            Visiting Professor

**University of South Florida**

1997-1998     Director of USF Office for Corporate Development  
1998-2001     President's Cabinet, Director of USF Research Foundation  
1999-2002     Visiting Associate Professor USF College of Business Administration

- 2002-Present Founding Director of the USF Center for Entrepreneurship  
The John and Beverley Grant Endowed Chair in Entrepreneurship, USF Muma College of Business
- 2004-Present Professor, Industrial and Management Systems Engineering USF College of Engineering
- 2006-Present Professor, Psychiatry and Behavioral Neurosciences, USF Morsani College of Medicine
- 2009-2014 Chairman of the USF Royalty Sharing Task Force
- 2010 Member of President's Strategic Planning Committee for Branding the USF System
- 2012-2013 Director, Tampa Bay Research and Innovation Center at USF's Center for Advanced Medical Learning and Simulation Center
- 2013-2015 Entrepreneur-in-Residence at the USF Center of Advanced Medical and Learning Simulation Center
- 2015-Present Professor USF College of Pharmacy, USF Health
- 2015-Present Professor, USF Institute for Advanced Discovery and Innovation
- 2015-16 Member of the USF System Strategic Task Force for Development of Unified Strategic Research Agenda for the USF System Universities

### Courses Taught

#### **Auburn University:**

Veterinary Physiology, Immunology, Clinical Microbiology, Veterinary Pharmacology Laboratories, Cardiology Laboratories

#### **Bristol University**

Entrepreneurship

#### **Hillsborough Community College**

Human Anatomy and Physiology, Comparative Anatomy

**University of Paris, France**

International Entrepreneurship, Fundamentals of Venture Capital and Private Equity

**University of Glamorgan, Wales**

International Entrepreneurship, Entrepreneurial Innovation, Technology Entrepreneurship

**University of South Florida**

New Venture Formation, Business Planning, Strategic Marketing Assessments for New Technologies, Business Strategy, Advanced Product Development, Fundamentals for Venture Capital and Private Equity, Ethics of Medical Products, Advanced Topics in Applied Entrepreneurship, Entrepreneurship Research Seminar, Case Study Writing, Intellectual Property in Biotechnology, Entrepreneurial Innovation, International Entrepreneurship Strategy, Exit Strategies

**Business Leadership Positions**

1981-1985	The Liposome Company, Inc. Princeton, New Jersey Co-Founder, Senior Scientific Director
1985	CooperLipotech (Liposome Technologies, Inc.) San Francisco, California Venture Manager

1985-1986	Cooper Biomedical, Inc. Malvern, Pennsylvania Director of Instrumented Diagnostics
1986-1988	Lipogen, Inc. Knoxville, Tennessee Co-Founder, Director of Development
1987-1994	Fountain Pharmaceuticals, Inc. Largo, Florida Founder, CEO & Chairman of the Board of Directors
1991	Florida Governor's European Trade Commission Tallahassee, Florida Board Member
1991-1998	The Science Center of Pinellas County St. Petersburg, Florida Chairman of the Board of Directors, Board Member
1991-1993	St. Petersburg Junior College St. Petersburg, Florida College Advisory Board Member

1993-1995	Dendron Corporation, Inc. Tampa, Florida Co-Founder, Co-Chairman of the Board of Directors
1994-2002	The SunCoast Venture Forum, Inc. Tampa, Florida Chairman of the Board of Directors, CEO
1995-1996	The Enterprise Corporation of Tampa Bay Tampa, Florida CEO
1996-1998	Southwest Florida Innovation and Commercialization Center Tampa, Florida Executive Director
1997-1999	Florida Gulf Coast Life Sciences Initiative Tampa, Florida Board of Directors
1997-2005	Computer Mentors Tampa, Florida Board of Directors

1998-2006	Youth Empowered to Achieve (YEA) Tampa, Florida Board of Directors
1998-2001	USF Research Foundation Tampa, Florida Executive Director and Chairman of the Intellectual Property Advisory Committee
1999-2001	TechVillage Tampa, Florida Board of Directors
1999-2005	The Center for Venture Education Palo Alto, California Education Advisory Board Member
1999-2001	BioFlorida, Inc. Gainesville, Florida Board of Directors
1999-2003	The Ewing Marion Kauffman Foundation Kansas City, Kansas Entrepreneur-in-Residence, Director of Life Sciences Programs,

Institutional Officer for The Kauffman Fellows Program,  
Member of the Foundation Strategy Committee

2000-2004

Tampa Bay Technology Forum

Tampa, Florida

Board of Directors

2000-2008

The National Consortium for Life Sciences Entrepreneurship

Tampa, Florida

Founder and Executive Director

2000-2007

Equus Financial Group

Tampa, Florida

Co-Founder

2002-2004

The Tampa Chamber of Commerce

Tampa, Florida

Board of Directors, Co-Chair of Venture Capital Committee,

Small Business of the Year Selection Committee

2002-2008

Docuantage, Inc.

Tampa, Florida

Business Advisory Board



2003- 2008	Transgenix BioPharma, LLC Tampa, Florida Scientific Advisory Board
2003-2009	Darkstar Information Services Tampa, Florida Co-Founder, Managing Partner
2002-2014	StarTEC Accelerator/ Tampa Bay Innovation Center Largo, Florida Board of Directors
2003-2009	NanoPharma DDS Tampa, Florida Scientific Advisory Board
2004-Present	Dermazone Solutions, Inc. St. Petersburg, Florida Scientific Advisor
2008-Present	Kara Vita, LLC St. Petersburg, Florida Scientific Advisor
2005-2017	Intezyne Technologies, Inc.

Tampa, Florida

Chairman of the Board of Directors, Independent Director

2006-2012

NanoSolutions, LLC.

Washington, D.C

Member

2008-2010

Proteacel, LLC

Tampa, Florida

Business Advisory Board

2009-2013

United States Association for Small Business and  
Entrepreneurship (USASBE)

Whitewater, Wisconsin

Executive Vice President for Development

2009-2015

United States Association for Small Business and  
Entrepreneurship (USASBE)

Whitewater, Wisconsin

Board of Directors

2009-Present

Auburn University

Auburn, Alabama

Research Advisory Board

2010-2013	Platinum Synergies, Inc. Tampa, Florida Co-Founder, Co-Managing Partner
2010-2014	BCD Medical Devices, LLC Tampa, Florida Business Advisory Board
2010- 2012	Logo-to Go Tampa, Florida Business Advisory Board
2011-Present	USF Health Tampa, Florida Translational Medicine Academic Advisory Board
2013-Present	National Association of Inventors, Tampa Chapter Board Member and Vice President
2013-Present	The Indus Entrepreneurs Association, Tampa Chapter Charter Member
2014-Present	UVentures, LLC, Co-Founder
2015-Present	FTI, International, LLC, Co-Founder

2016-Present Procia, Scientific Advisory Board

2016-Present Global Safety Management, Inc. Board of Directors

**CONSULTING DUTIES**

1980-1981 USDA

1981 NATO

1982-1985 Eli Lilly (ELANCO)

1984-1985 Bristol Animal Health

1986-1987 Medecis

1989 Helen Curtis

1989 Jobst

1990 Marion Laboratories

1990 Genetic Laboratories, Inc.

1991 Schering-Plough

1991 Rhone-Poulenc Rhorer

1991 Astra Pharmaceuticals

1991-1992 Warner Lambert

1992 Hoffman LaRoche

1992 Glaxo

1992 Biersdorf

1992-1993 Solvay-Duphar

1993 Ethicon

1993 Jonson and Johnson Consumer Health

1993	Brocades Pharma BV
1994-1998	Chamberlain Financial Group
1995-1996	Fountain Pharmaceuticals, Inc.
1996-Present	Dermazone Solutions, Inc.
1996	Department of Defense
1996-1999	Enterprise Florida
1997	Department of Energy
1999-Present	Hillsborough County Florida
1999-2001	H. Lee Moffitt Cancer Center
1999-2003	Kauffman Center for Entrepreneurial Leadership
1999-2004	Kauffman Fellows Program
1999-2005	The Center for Venture Education
1999-2004	The Kauffman Foundation
	The Kauffman Center for Entrepreneurial Leadership
	The Kauffman Fellows Program
2004-Present	Dermazone Solutions, Inc.
2005	Georgia State University
2006	Iowa State University
2007	Benedictine College
2007-Present	Department of State
2008-2009	eWinWin
2009-Present	Auburn University
2013-2015	Consultas, LLC.
2014-Present	UVentures
2015-Present	Medical Safety Management, LLC

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## PUBLICATIONS AND PATENTS

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### 2017

- US Patent: “Nanolipidic Particle Assembly Populations” 20170042826
- US Patent: “Methods of Making and Using Scale Particles” 20160317452
- US Patent: “Method for Preparing Nanolipids with Encapsulated Alcohol” 20150342226

### 2016

- Fountain, M and DeNoble, A. (2016) “Development of Interdisciplinary Entrepreneurship Curriculum for Business and Science Graduate Students”. Proceeding of the annual 2016 USASBE National Meeting.
- US Patent: “Nanolipidic Particle Assembly Populations” 9,480,650
- US Patent : “Method for Making Nanolipidic Particles” 9,399,015
- US Patent: “Method for Making Nanolipidic Particles” 9,364,678
- US Patent Application. “Thermally Responsive Rectifying Antenna Complexes”.

### 2015

- US Patent Application: “Ultra Small Lipid Particles”

### 2014

- Trotter, J. Zimmerer, T., & Fountain, M. “The Drive to Modify Program Curriculum Based Upon a Student Needs Assessment” (2014) ICSB World Conference Proceedings (in press).
- Fountain, M, DeNoble, A. and Marshall,W. (2014) “The Integration of Entrepreneurship Educational Content into STEM Curricula” Proceeding of the annual 2014 USASBE National Meeting.

### 2013

- US Patent: “Method for Making Nanolipidic Particles” 8,854,874
- US Patent:” Nanolipidic Particles” 8,545,874
- US Patent: “Nanolipidic Particles” 8,545, 875

### 2012

- Baker, W., Cadenhead, G., Dickson, P., Flock, Z, Fountain, M., Jones, E., Leigh, Tom, Lingard, J., Lusch, R., Noble, C., O’Donnell, M., Rindfleisch, A., Theroux, J. Business Education Transformation for America. Backbone Press LLC. Portsmouth, N.H. (2012) 1-36.
- Spangler, E., White, J., Kasti,M. and Fountain, M.W. 2012. “Asset Mapping of a Major Research University Using Innovation Hub Modeling. Technology and Innovation” (2012) vol.14 no.2. 185-197.
- Burns,J, Zadikany,R., Patel,J, Guerra,L, Gonzalez,E, Fountain,M. W., Marshall, W.G. “Evolving Student Social Entrepreneurship in a College of Medicine and Academic Medical Center. (2012) ICSB World Conference Proceedings, pages 407-41.8 ISBN 978-0-9819028-4-5.
- Reeves,C. Tufts,M., Fountain,M.W., Marshall,W.M. “The University of South Florida Masters Degree in Entrepreneurship for Applied Technologies: A Five-Year Follow-up” (2012) ICSB World Conference Proceedings, pages 651-657. ISBN 978-0-9819028-4-5.

### 2011

- Fountain, M.W., Trotter, J. and Zimmerer, T.M. (2011) “An Empirical Study of a Master’s Degree in Entrepreneurship: Attraction and Retention”. Proceedings of the USASBE Annual Meeting January 2012.

### 2010

- Smith,A., Giunta, B., Bickford,P.C., Fountain, M., Tan,J., and Shytle, R.D. 2010 Nanolipidic Particles Improve the Bioavailability and Alpha-Secretase Inducing Ability of Epigallocatechin-3-Gallate (EGCG) for the Treatment of Alzheimer’s Disease. International Journal of Pharmaceutics 389 (2010) 207-212.

### 2009

- Smith, A.J., Guinta,B., Fountain,M., Tan,J. and Shytle, R. 2009. Nanoparticle Encapsulation Improves Efficacy of Epigallocatechin-3-Gallate (EGCG) as an Alzheimer’s Disease Therapy. Program number 428.10.2009 Society of Neuroscience.

- Fountain, M.W. 2009. Traversing Disciplines Across Campus Using Innovative Interdisciplinary Entrepreneurship Learning Programs. Presented as a Plenary Pillars Presentation. Proceedings of the 2009 USASBE National Meeting.
- Fountain, M.W. & Marshall, W.G. 2009. Development of Integrated Entrepreneurship Using Life Sciences as a Model. Proceedings of the 2009 USASBE National Meeting.

## 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 of the American Association of Schools and Colleges of Business (AACSB) in Honolulu, HI.
- Fountain, M.W., Miller, K.M., Staggs, S.F., Santalucia, G.M., Delaportas, G. 2008. Taste Masking of Sodium Chloride in Beverages Using Nanolipidic Particle Technology. Proceedings of the 2008 Annual Meeting of the Controlled Release Society.
- Fountain, M.W. 2008. Industrialization of Nanotechnology: Global Status of Commercialized Products. Presented at the 2008 Annual Meeting of the Controlled Release Society in New York City, NY.

## 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.
- Marshall, W. G., Knight, J. A. and Fountain, M. W. 2005. Neurocel, Inc. Proceedings of the North American Case Research Association, Vol.19 No. 1. Pg. 132.

## 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: “Aeriosolizable 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., Brahmbatt, 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: “Stable Pleurilamellar Vesicles”



- 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. 9<sup>th</sup> International Academy of Dermatology. 9:235.

#### **1991**

- US Patent: “Stable Pleurilamellar Vesicles”
- 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., Chioveti, 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., Chiovetti, 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
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## 1977

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- 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

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## RESEARCH GRANTS AND CONTRACTS

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**2017**

- Florida Blue Cross Blue Shield, \$47,000, Healthcare Innovation Competition
- NSF, I-Corps Site Grant, \$160,000, I-Corps Team Training

**2016:**

- Florida Blue Cross Blue Shield, \$25,000, Healthcare Innovation Competition
- NSF, I-Corps Site Grant, \$160,000, I-Corps Team Training

**2015:**

- Florida Blue Cross Blue Shield, \$25,000, Healthcare Innovation Competition
- Hillsborough County, \$40,000, Entrepreneurship Support
- NSF, I-CORPS Site Grant, \$160,000, I-Corps Team Training

**2014:**

- Florida Blue Cross Blue Shield, \$25,000, Healthcare Innovation Competition
- Hillsborough County, \$40,000, Entrepreneurship Support

**2013:**

- Florida Blue Cross Blue Shield, \$25,000, Healthcare Innovation Competition
- Hillsborough County, \$40,000, Entrepreneurship Support

**2012:**

- Hillsborough County, \$40,000, Entrepreneurship Support

**2011:**

- Hillsborough County, \$40,000, Entrepreneurship Support

**2010:**

- Hillsborough County, \$40,000, Entrepreneurship Support

**2009:**

- State of Florida High Technology Matching Research Grant, \$70,000, Joint Research project with EWinWin, LLC. Entitled “Demand Aggregation and Yield Management: Primary Research and Commercialization Analysis”.
- Hillsborough County, \$40,000, Entrepreneurship Support

**2008:**

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

**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:**

- 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 Factor/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.

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**PRODUCTS DEVELOPED AND COMMERCIALIZED**

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**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® Sjorgren's Assay	➤ Microtiter assay for Sjorgren'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. (Dermazone Soutions, 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® Eyelyph:	➤ 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 Gentamicin Cream	➤ Micro-encapsulated Gentamicin 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. Neimann Marcus  
(Products developed for and marketed 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
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**VII. Kara Vita, Inc., St. Petersburg, Florida**

1. Celazome®	➤ Micro-encapsulated aqueous topical formulations for Skin Care for Dermatologists and estheticians
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(Past and Present Affiliations)

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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

HERMES Universities

International Council of Small Business

National Academy of Inventors, Fellow

Omega Tau Sigma

Omicron Delta Kappa

Sigma Xi

United States Association of Small Business and Entrepreneurship, Justin Longenecker Fellow

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