

Gregory T. Martin, Ph.D.

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Summary:

Dr. Martin is an executive, entrepreneur, engineer and scientist with over 25 years of experience developing products, commercializing medical technologies and building successful businesses in start-ups and publicly-traded corporations. He has a track record of success in executive management, team building, business development, product launch, marketing, operations, program management, product development, R&D, manufacturing, clinical research, and regulatory affairs.

Professional Experience:

Boston University, Department of Biomedical Engineering

Boston, MA

Senior Lecturer and Director of the Coulter Translational Research Program October 2013-present
Leading a Coulter Foundation funded program to translate innovative medical device and diagnostics technology to commercialization.

- Solicit & evaluate grants, select awardees, mentor investigators, and manage progress
- Facilitate licensing & company formation along with the Office of Technology Development
- Instructor for BE467: Product Design & Innovation in Biomedical Engineering (undergraduate)
- Instructor for BE695: Advanced Biomedical Design and Development (graduate)
- Instructor for the Health Care Entrepreneurship Program for BU medical students rotating at the Questrom School of Business

Hologic, Inc. (NASDAQ: HOLX)

Marlborough, MA

Vice President of Research and Development

Oct 2007-Nov 2011

A leading women's health company with specialization in laboratory diagnostics, digital mammography, bone densitometry and minimally invasive surgical devices with annual revenue of over \$1.7 billion. Responsible for R&D in the Surgical Products Division for all released and new products. The released products account for approximately \$300 million in annual revenue.

Key Accomplishments

- Key member of the senior team that grew annual divisional revenue from \$225 to \$300 million
- Key member of the deal team for the \$351.8 million acquisition of Interlace Medical, Inc. (\$126.8 million in upfront payment, \$225 million in contingent, milestone payments)
- Led the release of the next generation products (capital equipment with software and invasive surgical devices) which increased divisional revenue and significantly improved product quality
- Conceived, initiated and led numerous R&D and new product development projects
- Partnered with development/start-up companies to expand technology and product portfolio

Responsibilities

- Key member of senior management team that formulated divisional strategy and set goals
- Formulated and implemented R&D and product development strategy
- Set division and departmental goals and priorities related to R&D
- Provided periodic updates to the Board of Directors
- Ensured the department achieved annual goals and budget targets
- Managed approximately 45 engineers (direct and indirect reports) within the R&D department
- Directly/indirectly guided over 100 people in matrix functions that supported R&D programs
- Managed relationship with off-shore high volume manufacturing facility
- Provided mentoring and oversight for manufacturing engineering and process development
- Directly interfaced with FDA and international authorities to support applications/amendments for PMA Class 3 devices
- Evaluated business development deal candidates (both venture and M&A)

Hologic USP 6,872,183
Exhibit 2010
IPR2016-00868 (Minerva v. Hologic)
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Cytac Corporation (NASDAQ: CYTC)

Marlborough, MA

Vice President of Research and Development

Feb 2007-Oct 2007

A leader in women's health with annual revenue of \$700 million. Responsible for R&D in the medical device (Cytac Surgical Products) division for all released and new products. CSP marketed world-class products to treat menorrhagia (NovaSure®), breast cancer with radiotherapy (MammoSite®), and brain cancer with radiotherapy (GliaSite®). Cytac merged with Hologic in October 2007.

Accomplishments

- Led the transition of the R&D department from California to Massachusetts
- Built an outstanding medical device R&D department, hired entire department staff
- Created an entrepreneurial environment to enhance innovation
- Led technical due diligence for acquisitions, venture investments & development agreements
- Key member of the deal team for the \$215 million acquisition of Adiana
- Led the integration of R&D facilities, resources and programs obtained via acquisition
- Created close cross functional collaboration with Marketing, Sales, and Operations

Responsibilities

- Managed R&D at 3 national sites
- Created and managed product pipeline/portfolio
- Formulated research and product development plans, and budgets
- Set division and departmental goals and priorities related to R&D
- Responsible for ensuring that R&D achieved annual goals and budget targets
- Managed development agreements with partner start-up companies

Hemedex, Inc.

Cambridge, MA

Co-founder, Chief Technology Officer and Corporate Director

2000-2007

A medical device start-up that developed and commercialized a device to monitor cerebral blood flow at the bedside in neurosurgery patients with traumatic brain injury, cerebro-vascular disease and stroke. Responsible for R&D, Engineering, Manufacturing, Regulatory/QA and Clinical Studies.

Accomplishments

- Co-founded this medical device startup company, ran day-to-day operations
- Personally responsible for raising \$2.3 million in angel investment
- Key member of the deal team which raised a total of \$12.2 million in investment
- Created a partnership with a Korean life sciences company (Hanmi) for distribution in Asia
- Engaged, negotiated & signed an exclusive distribution agreement with J&J (Codman Division)
- Co-inventor of core enabling algorithm technologies
- Led the product development for the company's flagship patient blood flow monitor
- Implemented ISO 9000/13485 and oversaw the transition to ISO 13485:2003
- Recruited and collaborated with Key Opinion Leaders
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Responsibilities

- Member of the Board of Directors (5 members total: 3 investors, 2 management)
- Hired entire technical staff, consultants and VP level personnel
- Hired key vendors, engineering firms, contract manufacturers and service providers
- Conceived, planned, and executed technology, research and product development projects
- Supervised entire technical staff (mechanical, electrical, software engineers and technicians)
- Ensured product development complied with applicable FDA and international standards
- Responsible for 510(k) FDA submissions and CE Mark applications

Thermal Technologies, Inc.

Cambridge, MA

Vice President of Research and Development and Corporate Director

1998-2000

A medical device incubator/contract research company that developed technologies for the measurement of tissue blood flow, cardiac output, tissue oxygen concentration, radiotherapy dosage and tumor temperature for use in hyperthermia therapy. Responsible for the conception, funding, and execution of original research programs.

- As Principal Investigator awarded \$3.6 million in grants from US National Institutes of Health
- Licensed core technologies from M.I.T.
- Led the development of experimental preclinical and clinical devices
- Managed an interdisciplinary team of mechanical, electrical, biomedical & software engineers
- Identified and investigated potential clinical applications for the company's technologies
- Developed international collaborations with clinicians and researchers
- Trained clinical collaborators & set up clinical research sites
- Managed contract research projects with industry, academic and government clients

Harvard-M.I.T. Division of Health Sciences and Technology at M.I.T.

Cambridge, MA

Research Staff Scientist (non-tenure track)

1996-1998

In collaboration with the Dana-Farber Cancer Institute, led a team of engineers to develop computer-based tools to aid in the treatment of tumors using hyperthermia (heat) induced by high power ultrasound. Also, wrote grants, made conference presentations, supervised undergraduate and graduate thesis students.

M.I.T. Biomedical Engineering Center

Cambridge, MA

Post-Doctoral Researcher

1995-1996

Researched novel technology to apply electroporation to transdermal drug delivery.

Other Activities:

Consulting services to the medical device industry on a variety of topics including strategy, fund raising, opportunity analysis, investment due diligence, grant writing, expert witness (patent and product liability), program and portfolio management, product development, technology development and R&D. Recent client clinical/technology areas include endoscopy, laparoscopic surgery, neurovascular devices, hemofiltration, tissue ablation, neuro ICU monitoring, transdermal drug delivery, and women's health.

MIT Enterprise Forum of Cambridge.

Cambridge, MA

Vice Chair, Board of Directors

2014-present

Fractyl Laboratories, Inc.

Waltham, MA

Founding member of the Business and Scientific Advisory Board

2011-2014

Advised this venture capital-backed medical device start-up company.

Maternova

Providence, RI

Advisory Board Member

2011-present

Advise this NGO on medical devices for maternal/neonate health in developing countries.

Mass Challenge

Boston, MA

Volunteer Mentor

2010, 2013

Mentor to start-up companies in the life sciences sector, including 2013 winner Hemova Medical.

M.I.T. Venture Mentors

Cambridge, MA

Volunteer Mentor

2006-2009

Advised and mentored faculty, alumni and students on the commercialization of medical device technologies and the creation of start-up companies.

US National Institutes of Health

Bethesda, MD

Study Section Member, Brain Disorders and Clinical Neurosciences (BDCN-10)

1999-2005

Reviewer for bioengineering grants submitted by companies, hospitals, and universities.

Seacoast Technologies, Inc.

Portsmouth, NH

Scientific Advisory Board Member and Consultant

2001-2005

A venture capital funded start-up company commercializing medical devices for neuro-protection after stroke using local, profound tissue cooling. Performed foundational experiments (pre-financing) with scientific founders, participated in investor presentations, supported the due diligence process and served as a consultant for device design, experimental analysis, and clinical trials.

CryoCath Technologies, Inc. (Toronto Stock Exchange: CYT)

Montreal, Quebec Canada

Scientific Advisory Board Member and Consultant

1996-1998

A developer of catheter-based cryotherapy devices to treat tachyarrhythmia, ischemia and restenosis. Advised the CEO and Board of Directors on the scientific direction of the device development. CryoCath was acquired by Medtronic in September 2008 for \$380 million.

World Health Organization

Geneva, Switzerland

Consultant and Principal Investigator

1990-1993

- Introduced computerized training programs for health workers combating tropical diseases.

Education:

Massachusetts Institute of Technology

Cambridge, MA

Doctor of Philosophy Mechanical Engineering June 1995

Master of Science Mechanical Engineering June 1991

Bachelor of Science Mechanical Engineering June 1988

Personal:

- Dr. Martin enjoys running and sailing (both racing and cruising on his 42-foot sailboat).
- In 2012, he and his wife took a year-long sabbatical, to travel around the world, visiting 6 continents, including Antarctica, traveling over 50,000 miles and visiting 25 countries.

Invited Lectures:

“Thermal Modeling in Hyperthermia Therapy Planning”, presented at the Physics Seminar Series, Joint Center for Radiation Therapy, Harvard Medical School, Boston, MA, July 10, 1992.

“Thermal Model for Rapid Hyperthermia Therapy Planning and Evaluation”, presented at the Seminar Series, School of Engineering, Virginia Commonwealth University, Richmond, VA, May 6, 1996.

“Thermal Model for Real-time Hyperthermia Therapy Evaluation”, presented at the Seminar Series, Department of Mechanical Engineering, University of Washington, Seattle, WA, May 20, 1996.

“Hyperthermia Therapy Planning and Evaluation”, presented at the Seminar Series, Department of Mechanical Engineering, Trinity College, Dublin, Ireland, May 28, 1996.

“Heat Transfer in Living Tissue”, Lecture for HST-532J Hyperthermia: Biology, Technology, and Cancer Therapy, Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA, February 1997.

“Effect of Tissue Characteristics on Estimating Temperature Distributions”, Abstract and Invited Symposium Lecture for the 45th Annual Meeting of the Radiation Research Society (RRS)/16th Annual Meeting of the North American Hyperthermia Society (NAHS), Providence, RI, May 1997.

“Cerebral Blood Flow Measurement”, presented at Grand Rounds, Department of Neurosurgery, University of Heidelberg, Mannheim, Germany, August 9, 1999.

“Real-time Measurement of Tissue Blood Flow”, presented at the Biomedical Engineering Seminar, Department of Biomedical Engineering, University of Massachusetts Medical Center, Worcester, MA, November 15, 1999.

“Measurement of Cerebral Blood Flow”, present at Grand Rounds, Department of Neurosurgery, University of Massachusetts Medical Center, Worcester, MA, January 19, 2000.

“Instrumentation for the Measurement of Tissue Perfusion”, Lecture for HST.570J Biomedical Instrumentation Electronics, Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA, March 16, 2000.

“Clinical Application of Real-time Tissue Perfusion Measurement”, Hanmi Pharmaceuticals and Medilux Symposium, Swiss Grand Hotel, Seoul, Korea, December 11, 2000.

“Real-time, Continuous and Absolute Cerebral Blood Flow Monitoring in Neurosurgery”, Korean Society of Neuro-anesthesia, Seoul, Korea, March 22, 2002.

“SBIR funding for Life Sciences Companies”, MIT University Park Hotel, Sponsored by Mass High Tech, The Journal of New England Technology, January 21, 2003.

“Continuous, Real-time Monitoring of Cerebral Blood Flow”, Grand Rounds, Department of Neurosurgery, University of Maryland, Baltimore, MD, April 20 2004.

“Continuous, Real-time Monitoring of Cerebral Blood Flow”, Grand Rounds, Department of Neurology, Johns Hopkins University Hospital, Baltimore, MD, April 22, 2004.

“Cerebral Blood Flow Monitoring with the Bowman Perfusion Monitor”, Johnson & Johnson Codman, Neurosurgery Focus Group, Congress of Neurological Surgeons, San Francisco, October 16, 2004.

Grant Support:**Thermal Technologies, Inc.**

Source: National Institutes of Health, National Cancer Institute
Project: R44 CA62717
Dates: 09/15/96-08/31/97
Title: Miniature RadFETs for Radioimmuno/brachytherapy
PI: Gregory T. Martin, Ph.D.
Total Award: \$750,000

Source: National Institutes of Health, National Heart, Lung and Blood Institute
Project: R43 HL58337
Dates: 08/15/97-01/15/97
Title: Rapid, Robust, Automated Continuous Cardiac Output System
PI: Gregory T. Martin, Ph.D.
Total Award: \$100,000

Source: National Institutes of Health, National Heart, Lung and Blood Institute
Project: R43 HL60509
Dates: 05/15/98-11/15/99
Title: Non-invasive Perfusion Measurement System
PI: Gregory T. Martin, Ph.D.
Total Award: \$100,000

Source: National Institutes of Health, National Cancer Institute
Project: R43 HL61084
Dates: 11/15/98-05/15/99
Title: Instrumented Biopsy Needle for Tumor Blood Flow Measurement
PI: Gregory T. Martin, Ph.D.
Total Award: \$100,000

Source: National Institutes of Health, National Heart, Lung and Blood Institute
Project: R44 HL58337
Dates: 03/01/99-02/28/01
Title: Rapid, Robust, Automated Continuous Cardiac Output System
PI: Gregory T. Martin, Ph.D.
Total Award: \$750,000

Source: National Institutes of Health, National Heart, Lung and Blood Institute
Project: R43 HL63554-01A1
Dates: 06/01/2000-11/30/2000
Title: Cerebral Blood Flow Monitoring System
PI: Gregory T. Martin, Ph.D.
Total Award: \$100,000

Source: National Institutes of Health, National Cancer Institute
Project: R44 HL61084
Dates: 07/01/00-06/30/02
Title: Instrumented Biopsy Needle for Tumor Blood Flow Measurement
PI: Gregory T. Martin, Ph.D.
Total Award: \$750,000

Source: National Institutes of Health, National Institute of Neurological Disorders and Stroke

Project: R43 NS42375-01A2
Dates: 09/30/2002-03/31/2003
Title: Quantitative Perfusion Calibration of FMRI
PI: Gregory T. Martin, Ph.D.
Total Award: \$100,000

Source: National Institutes of Health, National Heart, Lung and Blood Institute
Project: R44 HL63554-01A1
Dates: 06/01/2004-05/30/2006
Title: Cerebral Blood Flow Monitoring System
PI: Gregory T. Martin, Ph.D.
Total Award: \$750,000

Harvard-MIT Division of Health Sciences and Technology

Source: National Institutes of Health, National Cancer Institute
Project: P01 CA31303
Dates: 04/01/88 - 03/31/91
Title: Tumor Hyperthermia: Science, Technology, and Evaluation
PI: H. Frederick Bowman, Ph.D.
Role: Research Assistant

Source: National Institutes of Health, National Cancer Institute
Project: P01 CA31303
Dates: 04/01/92 - 03/31/95
Title: Optimization of Hyperthermia: Biological and Physical Studies
PI: Norman Coleman, M.D.
Role: Research Assistant

Source: National Institutes of Health, National Cancer Institute
Project: P01 CA31303
Dates: 06/01/96 - 05/31/99
Title: Optimization of Hyperthermia: Clinic, Biology , Physics
PI: Norman Coleman, M.D.
Role: Research Scientist
Award/year: \$1.2 million

Source: Whitaker Foundation
Project: RR10963
Dates: 07/01/95 - 06/30/98
Title: High Voltage Pulsing for Transdermal Drug Delivery
PI: James C. Weaver, Ph.D.
Role: Research Scientist
Award/year: \$222,000

Source: National Institutes of Health
Project: R01 AR42921
Dates: 04/03/99-03/31/02
Title: Electrical Creation of Aqueous Pathways in Skin
PI: James C. Weaver, Ph.D.
Role: Research Scientist
Total Award: \$638,594

Source: National Institutes of Health
Project: RO1 GM63857
Dates: 04/01/02 - 03/31/06
Title: Molecular Microdosimetry for Electric Fields
PI: James C. Weaver, Ph.D.
Role: Research Scientist
Award/Year: \$348,665

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Original Reports:

G. T. Martin and H. F. Bowman, "The Temperature Distribution in Laser Irradiated Tissue with Blood Perfusion", Bioheat Transfer - Applications in Hyperthermia, Emerging Horizons in Instrumentation and Modeling, ASME, BED Vol. 12, pp 97-102, December 1989.

G. T. Martin and H. F. Bowman, "The Temperature Distribution in a Semi-Infinite Body Due to Surface Absorption of Laser Radiation", International Communications in Heat and Mass Transfer, Vol 17(1):93-104, Jan/Feb 1990.

G. T. Martin and H. F. Bowman, "Model and Solution for the Thermal Response of Blood Perfused Tissue during Laser Hyperthermia", Laser - Tissue Interaction, SPIE, Volume 1202, pp 308-316, January 1990.

G. T. Martin, "A Laser Based, Non-Invasive Measurement of Blood Perfusion", Massachusetts Institute of Technology, Master of Science Thesis, June 1991.

G. T. Martin, S. Yoon and K. Mott, "ZOOM: a generic personal computer-based teaching program for public health and its application in schistosomiasis control", Bulletin of the World Health Organization, Vol 69(6): 699-706, 1991.

S. Kumar, G. T. Martin, W. H. Newman, and H. F. Bowman, "Thermal Model for the Hyperthermia Treatment of an Irregularly Shaped Tumor", Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society in Orlando, Volume 13(2), pp 1038-1039, 1991.

H. F. Bowman, W. H. Newman, M. G. Curley, S. C. Summit, S. Kumar, G. T. Martin, J. Hansen, and G. K. Svensson, "Tumor Hyperthermia: Dense Thermometry, Dosimetry and Effects of Perfusion", Advances in Biological Heat and Mass Transfer, ASME, BED-Vol 18, pp 23-32, December 1991.

G. T. Martin, H. F. Bowman W. H. Newman and E. G. Cravalho, "Thermal Model with Temperature Dependent Perfusion for the Hyperthermia Treatment of Benign Prostatic Hyperplasia", Advances in Biological Heat and Mass Transfer, ASME, BED-Vol 18, pp 33-37, December 1991.

G. T. Martin, M. G. Haddad, E. G. Cravalho, and H. F. Bowman, "Thermal Model for the Local Microwave Hyperthermia Treatment for Benign Prostatic Hyperplasia", IEEE Transactions on Biomedical Engineering, Volume 39(8), pp 836-844, August 1992.

G. T. Martin, H. F. Bowman, W. H. Newman, "Basis Element Method for Computing the Temperature Field during Hyperthermia Therapy Planning", Advances in Biological Heat and Mass Transfer, ASME, HTD-Vol. 231, pp 75-80, November 1992.

J. J. Breedlove, G. T. Martin, W. H. Newman, H. F. Bowman, "Efficiency and Accuracy of the Basis Element Method", Presented at the Annual International Conference of the IEEE Engineering in Medicine and Biology Society in Baltimore, MD, November, 1994.

G. T. Martin, "A Thermal Model for Rapid Hyperthermia Therapy Planning and Evaluation", Massachusetts Institute of Technology, Doctoral Thesis, May 1995.

W. H. Newman, G. T. Martin, D. A. Sidney, "Evaluation and Application of the Basis Element Method: A Rapid, 3-D Algorithm for Bioheat Transfer Calculations", Advances in Heat and Mass Transfer in Biotechnology, HTD-Vol. 322/BED-Vol 32, ASME, pp 49-54, 1995.

J. L. Hansen, B. B. Bornstein, G. K. Svensson, W. H. Newman, G. T. Martin, D. A. Sidney, H. F. Bowman, "A Quantitative, Integrated, Clinical Focused Ultrasound System for Deep Hyperthermia", *Advances in Heat and Mass Transfer in Biotechnology*, HTD-Vol. 322/BED-Vol 32, ASME, pp 155-163, 1995.

U. B. Holeschovsky, G. T. Martin, J. W. Tester, "A transient spherical source method to determine thermal conductivity of liquids and gels", *International Journal of Heat and Mass Transfer*, Vol 39(6), pp 1135-1140, 1996.

J. C. Weaver, T. E. Zewert, U. F. Pliquet, R. Vanbever, T. R. Gowrshankar, T. O. Herndon, G. T. Martin, T. E. Vaughan, L. Ilic, J Handwerker, T. Chen, D. Allen, R. Langer, N. Monteiro-Riviere, "Pathway-enlarging Molecules for Skin Electroporation: The Possibility of Macromolecule Delivery with Minimal Side Effect", *Perspectives on Percutaneous Transport Enhancers*, 1998.

J. C. Weaver, T. E. Vaughan, G. T. Martin, "Biological Effects due to Weak Electric and Magnetic Fields: The Temperature Variation Threshold", *Biophysical Journal*, Volume 76, June 1999, pp 3026-3030.

G.T. Martin, H.F. Bowman, "Validation of real-time continuous perfusion measurement", *Medical & Biological Engineering & Computing*, 38(5):319-325, 2000.

P. Vajkoczy, H. Roth, P. Horn, T. Luecke, C. Thomé, U. Hübner, G. T. Martin, C. Zapletal, E. Klar, L. Schilling, P. Schmiedek, "Continuous monitoring of regional cerebral blood flow: experimental and clinical validation of a novel thermal diffusion microprobe", *Journal of Neurosurgery*, 93:265-274, 2000.

G.T. Martin, U. F. Pliquet, J. C. Weaver, "Theoretical Analysis of Localized Heating in Human Skin Subjected to High Voltage Pulses", *Bioelectrochemistry*, 57:55-64, 2002.

U. F. Pliquet, G. T. Martin, J. C. Weaver, "Experimental Detection of the Temperature Rise within Human Stratum Corneum during High Voltage Pulsing", *Bioelectrochemistry*, 57:65-72, 2002

C. Zapletal, L. Herzog, G.T. Martin, E. Klar, P.J. Meeder, J. Buchholz, "Thermodiffusion for the quantification of tissue perfusion in skeletal muscle – clinical evaluation in standardized traumatological procedures with tourniquet and potential application in the diagnosis of compartment syndrome", *Microvascular Research*, 66:164-172, 2003.

PK Maitz, MB Khot, HF Mayer, GT Martin, JJ Pribaz, HF Bowman, DP Orgill, "Continuous and real-time blood perfusion monitoring in prefabricated flaps", *J Reconstr Microsurg*, 20(1):35-41, 2004.

TR Gowrishankar, DA Stewart, GT Martin, JC Weaver, "Transport lattice models of heat transport in skin with spatially heterogeneous, temperature-dependent perfusion", *Biomed Eng Online*, 3:42; 2004.

Abstracts:

H. F. Bowman, G. T. Martin, W. H. Newman, S. Kumar, C. Welch, B. Bornstein and T. S. Herman, "Human Tumor Perfusion Measurements during Hyperthermia Therapy", *Hyperthermic Oncology 1992*, Volume 1 - Summary Papers Addendum, *Proceedings of the Sixth International Conference on Hyperthermic Oncology (IHC) in Tuscon, Arizona*, pp A17, April 1992.

J. L. Hansen, D. Delli Carpini, G. T. Martin, G. K. Svensson, "Quality Assurance of a Spherical, Focussed, Segmented Ultrasound Machine", *Hyperthermic Oncology 1992*, Vol 1 - Summary Papers, *Proceedings of the Sixth International Conference on Hyperthermic Oncology (IHC) in Tuscon, Arizona*, pp 333, April 1992.

G. T. Martin, W. H. Newman, J. J. Breedlove, H. F. Bowman, "Application and Optimization of the Basis Element Method for Hyperthermia Thermal Modeling", 42nd Annual Meeting of the Radiation Research Society and the 14th Annual Meeting of the North American Hyperthermia Society in Nashville, TN, pp 108, April 1994.

D. A. Sidney, W. H. Newman, G. T. Martin, H. F. Bowman, "Three-dimensional Clinical Hyperthermia Planning and Reconstruction", (abstract) Presented at the 43rd Annual Meeting of the Radiation Research Society and the 15th Annual Meeting of the North American Hyperthermia Society in San Jose, CA, April 1995.

G. T. Martin, W. H. Newman, H. F. Bowman, "Experimental Validation and Application of the Basis Element Method", (abstract) Presented at the 43rd Annual Meeting of the Radiation Research Society and the 15th Annual Meeting of the North American Hyperthermia Society in San Jose, CA, April 1995.

H.F. Bowman, B.L. Greenhalgh, J.L. Hansen, M.M. Hsu, S. Ibrahim, G.T. Martin, W.H. Newman, C.J. Welch, "Development Of Human Tumor Perfusion And Thermal Property Database", (abstract) Presented at the 45th Annual Meeting of the Radiation Research Society (RRS)/16th Annual Meeting of the North American Hyperthermia Society (NAHS), Providence, RI, May 1997

H.F. Bowman, G.T. Martin, "Effect of Tissue Characteristics on Estimating Temperature Distributions", Abstract and Invited Symposium Lecture for the 45th Annual Meeting of the Radiation Research Society (RRS)/16th Annual Meeting of the North American Hyperthermia Society (NAHS), Providence, RI, May 1997

J.J. Breedlove, G.T. Martin, D.A. Sidney, W.H. Newman, H.F. Bowman, "A Simple Model of Heat Transfer between Blood Vessels and Perfused Tissue during Hyperthermia", Presented at the 45th Annual Meeting of the Radiation Research Society (RRS)/16th Annual Meeting of the North American Hyperthermia Society (NAHS), Providence, RI, May 1997

D.A. Sidney, W.H. Newman, G.T. Martin, H.F. Bowman, J.L. Hansen, and G.K. Svensson. "Real-time three-dimensional thermal reconstruction for clinical hyperthermia.", Presented at the 45th Annual Meeting of the Radiation Research Society (RRS)/16th Annual Meeting of the North American Hyperthermia Society (NAHS), Providence, RI, May 1997.

D.A. Sidney, W.H. Newman, G.T. Martin, J.L. Hansen, G.K. Svensson, and H.F. Bowman. "Characterization of acoustic pressure field of ultrasound device for hyperthermia treatment of cancer." Extended abstract for the American Society of Mechanical Engineers (ASME) Summer Bioengineering Conference, June 1997.

J.C. Kim, G.T. Martin, H.F. Bowman. "Instrumented Hyperthermia Biopsy Needle" (abstract) Presented at the 46th Annual Meeting of the Radiation Research Society (RRS)/17th Annual Meeting of the North American Hyperthermia Society (NAHS), Louisville, KY, May 1998.

D.A. Sidney, G.T. Martin, H.F. Bowman, J.L. Hansen, G.K. Svensson. "Integrated Clinical System for Ultrasound Hyperthermia Prostate Treatment", Presented at the 46th Annual Meeting of the Radiation Research Society (RRS)/17th Annual Meeting of the North American Hyperthermia Society (NAHS), Louisville, KY, May 1998.

D.A. Sidney, G.T. Martin, C.J. Welch, J.L. Hansen, I. Kaplan, H.F. Bowman, "Human prostate perfusion quantification before and after hyperthermia treatment", Program & Abstracts of the Eighteenth Annual Meeting of the North American Hyperthermia Society, p.21, Philadelphia, 1999.

R. Ricciardi, D.P. Foley, S.H. Quarfordt, J.M. Lewis, S.E. Donohue, S.M. Wheeler, G.T. Martin, W.C. Meyers, "Cold Ischemia Affects Regional Hepatic Tissue Perfusion", *Hepatology*, 30(4):253, Part 2 Supplement S, October, 1999.

A.S. Lee, G.T. Martin, W.J. Koroshetz, "Regional Cerebral Hypothermia Using a Cortical Cooling Device in Dogs", Presented at the American Association of Neurological Surgeons 2000 in San Francisco, February 2000.

HF Bowman, DA Sidney, GT Martin, CJ Welch, JL Hansen, BA Bornstein, ID Kaplan, MD Hurwitz, "Human Prostate Tumor Blood Flow Response to Hyperthermia", Presented at the Eighth International Congress of Hyperthermia Oncology, Kyong-Ju, Korea, April 2000.

JJ Pomposelli, EA Pomfret, WD Lewis, FD Gordon, M Akoad, E Kreske, J Pratt, MA Simpson, GT Martin, HF Bowman, RL Jenkins, "Measurement of Hepatic Perfusion using Thermodiffusion after Living Donor Adult Liver Transplantation (LDALT) using Right Lobe Grafts", Presented at the 54th Annual Meeting of the American Association for the Study of Liver Diseases, Boston MA, June 2003.

Patents:

H.F. Bowman, G.T. Martin, "System for Quantifying Edema", US Patent 6,488,677; Dec 3, 2002.

H.F. Bowman, G.T. Martin, "Perfusion sensitive biopsy extractor ", US Patent 6,632,183; October 14, 2003.

G.T. Martin, H.F. Bowman, "Blood flow monitor for shock and resuscitation", US Patent 6,805,672, October 19, 2004.

G.T. Martin, H.F. Bowman, "System for assessing endothelial function based on tissue perfusion values", US Patent 7682317, Issued March 23, 2010.

G.T. Martin, H.F. Bowman, "System for quantifying blood flow in tissue with periodic updating of tissue baseline conditions", US Patent 7758511, Issued July 20, 2010.

G.T. Martin, "Fluid radiation shield for brachytherapy", US Patent 8,303,477, Issued November 6, 2012.

G.T. Martin, H.F. Bowman, "System for quantifying blood flow in tissue and updating tissue baseline conditions", US Patent 8,454,525, Issued June 4, 2013.

G.T. Martin, H.F. Bowman, "Method for assessing endothelial function", US Patent 8,449,475, Issued May 28, 2013.