CURRICULUM VITAE
Dartmouth's Geisel School of Medicine
Dartmouth-Hitchcock Medical Center
September 2020

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Education:

1993	Royal Postgraduate Medical School, Hammersmith Hospital, London, UK. Master of Science in Image Analysis in Histology (MSc.)
1982	University of London, UK; Bachelor of Medicine, Bachelor of Surgery (M.B., B.S.)
1977-1982	St. Thomas's Hospital Medical School, London, UK
1969-1977	The Lady Eleanor Holles School, Middlesex, UK

Postdoctoral Training:

1992-1994	Locum Consultant in Histopathology (UK); West Essex Health Authority, Epping, Essex (Jun/Jul/Sep.1992, May/Jul 1994); Ipswich NHS Trust Hospital, Ipswich, Suffolk (Jul/Aug/Dec. 1992, Apr/Jul/Sep.1993); North Hertfordshire Trust, Lister Hospital, Hertford (Aug.1992)
1992-1993	Master of Science in Image Analysis in Histology, Royal Postgraduate Medical School, Hammersmith, London, UK
1990-1992	Fellowship in Pathology (Cytology and Analytical Cell Pathology), Dartmouth-Hitchcock Medical Center, Lebanon, NH
1987-1990	Residency in Pathology (Chief Resident 1989-1990), Dartmouth-Hitchcock Medical Center, Lebanon, NH
1984-1987	Registrar in Histopathology, St. George's Hospital, London, UK
1983-1984	Senior House Officer (General Pathology Rotation), St. George's Hospital, London, UK
Sept.1983-Dec.1983	Pathology Elective, Dartmouth-Hitchcock Medical Center, Lebanon, NH
Aug.1982-Feb.1983	Junior House Officer, General Surgery, Frimley Park Hospital, Surrey, UK
Feb.1983-Aug.1983	Junior House Officer, General Medicine, St. Peter's Hospital, Surrey, UK

Licensure and Certification:

1985	Foreign Medical Graduates Examination in Medical Sciences (F.M.G.E.M.S.)
1989	Federal Licensing Examination, USA (F.L.E.X)
1990-1992	Vermont Medical Practice Board (# 42-0008136)
1990-present	New Hampshire Licensure in Medicine (# 8362)
1990-present	Member of the Royal College of Pathologists (M.R.C.Path), London, UK
1990	Anatomic Pathology, American Board of Pathology Certification
1995	Cytopathology, American Board of Pathology Certification

Academic Appointments:

1989-1994	Instructor in Clinical Pathology, Geisel School of Medicine at Dartmouth, NH
1994-2000	Assistant Professor of Pathology, Geisel School of Medicine at Dartmouth, NH
2000-2008	Associate Professor of Pathology, Geisel School of Medicine at Dartmouth, NH
2008	Professor of Pathology, Geisel School of Medicine at Dartmouth, NH
2012	E. Elizabeth French Professor in Pathology, Geisel School of Medicine at Dartmouth.

Hospital Appointments:

1994-present	Staff Pathologist, Dartmouth-Hitchcock Medical Center, Lebanon, NH
1994-2011	Chief of Breast Pathology, Dartmouth-Hitchcock Medical Center, Lebanon, NH
2008-2009	Interim Chair, Department of Pathology, DHMC, Lebanon, NH
2008-2009	Medical Director, Department of Pathology Clinical Laboratory, CAP-approved.
2011-present	Chair, Department of Pathology, DHMC, Lebanon, NH
2011-present	Medical Director, Department of Pathology Clinical Laboratory, CAP-approved.
2015-present	Clinical Vice President, Pathology Service Line, DH-Health.

Development:

Aug 2020	Dartmouth Hitchcock Women's Leadership Committee, NH Unconscious Bias, Racial Equity, and Structural Racism (Uché' Blackstock MD)

Major Committee Assignments and Consultations:

National/International:

2004-2009	Member, Pathology Working Group, Network for Translational Research in Optical Imaging (NTROI), Cancer Imaging Program, NCI.
2005	Member, Ad Hoc Study Section Review group, Center for Scientific Review, Biomedical Imaging Technology, NIH
2008-present	Member, Quick Trials Study Section Review group, Center for Scientific Review, R21 applications (Imaging and Image-Guided interventions), NIH
2011-present	External advisory panel, MIT Laser Biomedical Research Center, Boston, MA.
2014-2018	Member, College of American Pathologists (CAP) In-Vivo Microscopy Project Team
2017-present	Member, Lead Academic Participating Site committee, National Cancer Trials Network

Regional:

1995	Pathologist representative, Breast Cancer QA Workgroup, State of New Hampshire Department of Health and Human Services
2006-2009	New Hampshire State Cancer Registry, Advisory Panel
2011-present	New Hampshire State Cancer Registry, Medical Advisory Board

Institutional:

1989-1990	Resident liaison, Department of Pathology Residency Program Committee, Dartmouth-Hitchcock Medical Center (DHMC)
1989-1990	Member, G.M.E. Education and Stress Committee, DHMC
1990-1991	Member, House Staff Advisory Committee, DHMC
1992	Member, Medical Student Career Advisory Board (Pathology), DHMC
1994-present	Pathologist representative, Comprehensive Breast Program, DHMC
1996-2001	Member, Department of Pathology Residency Program Committee, DHMC
1997-2004	Member, Breast Cancer Working Group, DHMC
2001-present	Member, Cancer Control Research Program, Norris Cotton Cancer Center, DHMC
2001-2004	Director, Autopsy Service, DHMC
2002	Member, Board of Governors Nominating Committee, DHMC
2002	Member, Search Committee for Geisel School of Medicine at Dartmouth Dean
2006-2007	Working Group, NCI sponsored Cancer Bio-Informatics Grid (caBIG) compliance,

	adopter site for Tissue Banked specimens (caTissue), DHMC
2006-present	AMWA Mentor for DMS students considering pathology as a career
2006-2009	Director and co-Founder, Pathology Translational Research Program, DHMC
2009-present	Co-director, Pathology Translational Research Program, DHMC
2007-present	Member, Pathology Research Committee, Department of Pathology, DHMC
2008	Member, Department of Pathology Promotions Committee, Geisel School of Medicine
2008	Internal Advisory Board and CTSA proposal Steering Committee, DHMC
2008-2009	Member, Finance subcommittee, Geisel School of Medicine Strategic Planning Process.
2008-2009	Chair representative, Information System Steering Committee, DHMC
2009	Chair representative, Board of Governors Nominating Committee, DHMC
2011	Member, Working Group to establish an Institutional Bio-repository, Geisel & DHMC
2011	Chair Representative, Conflict of Interest Financial Subcommittee, DHMC
2011	Member, Curriculum Framework Subcommittee, New Curriculum Development, Geisel
2011	Invited participant, NCCC Planning Workshop
2012	Member, Physician FTE Taskforce, DHMC
2012–2015	Chair Representative, Value committee, DH-Board of Trustees
2013	Member, Budget Targeting Methodology Development Workgroup
2013	Member, MD PhD Program Steering Committee, Geisel School of Medicine
2013	Reviewer, Dartmouth SYNERGY Scholars Program, Geisel School of Medicine
2013	Member, Geisel Budget Improvement Committee, Geisel School of Medicine.
2013-2014	Member, Multi-Year Pricing Strategy Workgroup
2014-present	Member, DH Large Capital Review Committee
2014	Member, Faculty Titles for Regional Physicians Committee
2014	Member, Task Force to evaluate the MD/PhD Program at Geisel School of Medicine
2014	Member, Internal Advisory Committee, NIH Shared Instrumentation Grant S10
2014	Pathology representative, Philanthropy Workshop, DHMC, June 5, 2014
2014	Member, Finance Special Topics Workgroup, Geisel School of Medicine, Dean appointed
2014	Member, Academic Council, Geisel School of Medicine, Dean appointed
2015	Office of Research Mentoring representative in Pathology, Geisel School of Medicine
2015	Co-Chair, Search committee for Department of Surgery Chair
2016	Member, Search committee for VP of Cancer Service Line and Deputy Director of NCCC
2016	Member, Search committee for Faculty, Geisel's Department of Medical Education
2016-2018	Member, Board of Governors, DHC (Chair representative)
2016	Member, Search committee for Director of the NCCC
2017	Chair, Search committee for Associate Director and Service Line leader of the NCCC
2017	Member, Workgroup to review BoG bylaws
2017-present	Member, Lead Academic Participating Site committee, National Cancer Trials Network
2017-2019	Member, Professional Performance Evaluation Committee (PPEC) at DH
2017-2019	Course Director, General Pathology Course, Year 1, Geisel School of Medicine
2018	Member, Principles of Pedagogy (PoP) Task Group, Geisel School of Medicine
2018	Member, Principles of Course Assessments Task Group, Geisel School of Medicine
2019	Member, Internal Senior Advisory Board, NCCC
2019	Member, SYNERGY Internal Advisory Committee, DHMC & Geisel School of Medicine
2019	Member, Clinical Improvement Committee, Professional Performance Evaluation sub-Committee (PPEC), DHMC
2019	Member, Search Committee, Chief of Clinical Research at DH-H
2020	Chair, Search Committee, Chair of Neurology at DHMC

Membership, Office & Committee Assignments in Professional Societies:
United States and Canadian Academy of Pathology
American Society of Clinical Pathologists, USA
College of American Pathologists
New Hampshire Society of Pathologists

Association of Pathology Chairs
Association of Clinical Pathologists, UK
International Academy of Pathology, British Division

Editorial Board appointments:
2008-2011: Laboratory Investigation (Journal of the US and Canadian Academy of Pathology)

Journal Referee Activities:
Cell Vision-Journal of Analytical Morphology
Journal of Biomedical Optics, International Society for Optical Engineering (SPIE)
Journal of Electronic Imaging, International Society for Optical Engineering (SPIE)
Laboratory Investigation
PLOS ONE
Breast Cancer Research and Treatment
European Radiology

Awards and Honors:
1990 Tiffany Blake Fellowship Award, Hitchcock Foundation, Geisel School of Medicine, NH
1993 Master of Science (Image Analysis in Histology), awarded with *Distinction*, Royal Postgraduate Medical School, Hammersmith, London
1994 Fellow, College of American Pathologists (FCAP)
1994 Fellow, American Society for Clinical Pathology (FASCP)
1998 Fellow, Royal College of Pathologists, London, UK (FRCPath.)
2011-12 Best Doctors in America
2012 E. Elizabeth French Professorship in Pathology, Geisel School of Medicine at Dartmouth
2012 Excellence in Education Award for Distinguished Small Group Leader, Geisel at Dartmouth
2017-20 Top Doctors in New Hampshire award, New Hampshire Magazine
2017-20 Best Doctors in America

Research Interests:
Histomorphology quantification by image processing and analysis
Prognostic indicators and diagnostic reproducibility in breast carcinoma
Morphologic, proteomic and genetic correlates to validate novel breast imaging modalities

Subspecialty Interests:
Breast Pathology
Cytopathology
Quantitative Image Analysis

PhD student Degree Advisory Committees:

Xin Wang:	Physics Department at Dartmouth College: Thesis defense, January 2007 "Estimation of Scatterer Size & Number Density in Near-Infrared Tomography"
Ashley Laughney:	Thayer School of Engineering, Dartmouth College: Thesis defense, May 2012 "Localized Spectroscopic Imaging for the Detection and Discrimination of Surgical Breast Tissue Pathologies"
David M. McClatchy III	Thayer School of Engineering, Dartmouth College: Thesis defense, May 2017 "Development and Translation of Light Scatter Imaging and micro-Computed Tomography to Improve the Surgical Resection of Breast Cancer"

Graduate student mentees:
Department of Physics, Dartmouth College:
Xin Wang, 2006: PhD candidate

Thayer School of Engineering, Dartmouth College:
2006, Subha Srinivasan: PhD candidate, DOD Post-doctoral Award, Breast Cancer Research Program
2008, Ashley Laughney: PhD candidate, DOD Pre-doctoral Award, Breast Cancer Research Program
2009, Scott Davis PhD: DOD Post-doctoral Award, Breast Cancer Research Program
2013, Stephen C. Kanick PhD: Post-doc candidate for NIH K99/R00 award
2014, David M. McClatchy III: PhD candidate, NCI NRSA for Individual Predoctoral Fellows (F31)
2015, Ethan Murphy: Post-doc candidate for NIH K25 award

Research Funding:
Present Research Support:

R03 EB027224) Murphy (PI) 07/01/20-03/31/21
An automated whole breast ultrasound and electrical impedance tomography system for improved breast cancer imaging.
The purpose of this project is to develop a system, using whole breast ultrasound and electrical impedance tomography, and train/tes the system with pathology validation
(Dr. Wells is funded starting Year 2)
Role: Co-Investigator

R01 CA192803 Pogue/Paulsen (co-PIs) 03/01/15-2/29/20
Optical Scatter Imaging System for Surgical Specimen Margin Assessment during Breast Conserving Surgery
This project is to develop an industry/academic partnership with PerkinElmer to create a system for x-ray and optical imaging of breast resection specimens, and train the system and test with pathology validation.
(Dr. Wells is funded for years 3-5 only)
Role: Co-Investigator

R01 CA188491 Davis (PI) 07/01/15-6/30/20
Multi-probe fluorescence imaging for rapid intra-operative tumor margin assessment.
The major goals of this project are to use receptor expression profiles from biopsies to compose a personalized cocktail of targeted and non-targeted reference stains for topical application on specimens. This highly innovative correction approach essentially enables rapid, highly-specific gross tissue immunohistochemistry of multiple targets simultaneously.
(Dr. Wells is funded for years 4-5 only.)
Role: Co-Investigator

R01 CA191227) Meaney (PI) 04/01/15 - 3/31/20
Microwave imaging for neoadjuvant chemotherapy monitoring.
The major goals of this project are to further refine and optimize the current microwave imaging technology as an important step towards translating the technology to the clinic.
(Dr. Wells is funded for years 2-5 only)
Role: Co-Investigator

Past Research Support:

2014-2019 R01 CA176086 (P.I.: Jiang PhD)
Monitoring neoadjuvant chemotherapy responses with NIR tomography.
Role: Co-Investigator
2.75% effort
This project focused on developing a portable and compact near-infrared (NIR) spectral tomography (NIRST) system to quantify more accurately changes in total hemoglobin, oxygen saturation and water content in the breast during neoadjuvant chemotherapy.
(Dr. Wells is funded for years 2-5 only.)

2013-2018 NCRR (1P20GM104416-01) (P.I.: Karagas PhD)
COBRE Center for Molecular Epidemiology
Role: Core Director
As P.I. on the Bio-repository Core, I oversaw the establishment of a CLIA-certified, College of American Pathologists (CAP)-accredited biorepository for standardized biospecimen annotation, collection, processing, storage and retrieval for the four proposed research projects. This infrastructure, in turn, will provide the template for a comprehensive coordinated institutional biorepository that will enhance cross-disciplinary translational research collaborations and the progression to personalized medical care.

2011-2016 NIH/ U54CA163307 (P.I.: Anna Tosteson PhD)
Advancing systems approaches to personal & population breast cancer screening
2% effort
The major goal of the proposed PROSPR Research Center and related clinical practice networks that form the New England Collaborative Breast Surveillance Network, is to advance systems of care that lead to optimal personal and population breast cancer screening regimens. I will serve as an advisor to the Center, providing expertise in breast pathology to the multidisciplinary team of experts planning the research

2014-2015 R21 CA182956 (P.I.: Richard J. Barth Jr)
Image-guided surgery in non-palpable breast cancer with co-registered supine MR.
The major goals of this project are to propose a single institution Stage II study of supine MR imaging and image-guided intervention for resection of non-palpable breast cancers.

2011-2013 NCI 1 R21 CA141017-01A2 (P.I.: Lorenzo Sempere PhD)
microRNAs as novel biomarkers for management of breast cancer
6% effort
To further develop an in situ hybridization (ISH) protocol for identification of a subset of miRNAs linked to breast cancer (BrCa) and to assess the clinical utility of these miRNAs as surrogate markers of treatment response

2009-2012 NCRR 1R21RR024411-01A1 (P.I. Wendy A. Wells M.D. MSc.) (no cost extension)
A spatially-modulated scatter imaging system to detect tumor-associated stroma
12% effort
To develop and validate a spatially-modulated, scatter-based imaging system to intra-operatively assess surgical excision margin status for involvement of breast cancer

2007-2012 NCI 2R01CA126618-05A2 (P.I.: William B. Kinlaw III, M.D.)
The role of protein Spot 14 in normal and neoplastic mammary tissue
5% effort
To determine if human breast carcinomas can be therapeutically targeted using in vivo S14 antisense strategies

2006-2011 NCI P01 CA80139-0 (P.I.: Keith D. Paulsen, Ph.D.)
Alternative Breast Cancer Imaging Modalities
18% effort:
Continue the pathophysiologic, proteomic and genomic validation of four breast imaging method alternatives in a competitive renewal project

2004-2008 IU54CA105480-01 subaward 2003-1344 (P.I.: Wendy A. Wells, M.D.)
Network for Translational Research in Optical Imaging (NTROI):

Breast Cancer Multidimensional Diffuse Optical Imaging.
12% effort:
Developing methodology to quantitatively validate diffuse optical imaging signatures in benign and malignant breast lesions to help establish a set of reproducible biomarkers across the different teams in the NTROI.

2003-2006 IU54CA105480-0 (P.I.: Brian Pogue, Ph.D.)
Spatial/Spectral Tomography for Localized Functional Spectroscopy
Network for Translational Research in Optical Imaging (NTROI)
3% effort:
Validated a method to extract mean particle size and number density from the reduced scattering coefficient spectrum in normal, bulk fresh-frozen breast tissue, using a clinical breast tomography system

2004-2005 2 BCTR0402984 (P.I.: Bradley Arrick M.D.)
Epigenetic Consequences of BRCA1L: The Key to its Role as a Tumor Suppressor Gene in Human Breast Cancer
1% effort

2003-2006 DAMD17-03-1-0544 (P.I.: William B. Kinlaw III, M.D.)
S14 as a Therapeutic Target in Breast Cancer,
5% effort:
Spot 14 expression with outcome data

2002-2006 RO1 DK58961-01A2 (P.I.: William B. Kinlaw III, M.D.)
The role of protein Spot 14 in normal and neoplastic mammary tissue
5% effort:
Spot 14 and cyclin D1 expression immunohistochemically

1999-2004 NCI P01 CA80139-01/#5- 30373 (P.I.: Keith D. Paulsen, Ph.D.)
Alternative Breast Cancer Imaging Modalities
5%, 15%, 10%, 15%, 15% (yrs 1-5) effort:
Developed immunohistochemical and computer-assisted image processing techniques to validate the biophysiologic correlates of breast lesions detected by magnetic resonance, electrical impedance, microwave and near infrared spectroscopy

1996-2000 NCI RO1 CA72025-01/#5-30010 (P.I.: E. Robert Greenberg, M.D.)
Etiology of Early Breast Malignancy
25% effort:
Prognostic marker interpretation (immunohistochemistry and microdissection techniques)

1996-2000 NCI RO1 CA67338-04/#5-30005 (P.I.: Linda Titus-Ernstoff, Ph.D.)
The Risk Factors and Biomarkers for In Situ Breast Cancer
5% effort:
Prognostic marker interpretation (immunohistochemistry and microdissection techniques)

1997-1998 CDC to the NH Division of Health and Human Services
(P.I.: Patricia Carney, Ph.D.)
New Hampshire Breast Pathology QA Program (#5-36925)
5% effort:
Diagnostic reproducibility in breast pathology statewide

1997-1998 NCI RO1 CA65953-03/#5-31916 (P.I.: Marc S. Ernstoff, M.D.)

The Bispecific Antibody Therapy of Her 2/neu Positive Cancers
2% effort

1996-1997 CDC to the NH Division of Health and Human Services
(P.I.: Patricia Carney, Ph.D.)
New Hampshire Breast Pathology QA Program (#5-36897)
5% effort:
Diagnostic reproducibility in breast pathology statewide

1994-1999 DAMD 17-94-J-4109/#5-36778 (P.I.: E. Robert Greenberg, M.D.)
New Hampshire Mammography Network, Research Team
10%, 30%, 10% (yrs 1-3) and 5% (yr 5) effort:
Pathology data incorporation and mammographic correlation

1990-1991 Tiffany Blake Fellowship, Hitchcock Foundation (P.I.: Wendy A. Wells, M.D.)
Geisel School of Medicine at Dartmouth, NH
100% effort:
Quantitative image analysis of immunohistochemical studies

1990-1991 NIH-RO1CA37868 (P.I.: Edward D. Ball, M.D.)
Monoclonal Antibodies to Small Cell Carcinoma of Lung
10% effort

Prouty Pilot Study Awards, Norris Cotton Cancer Center, Lebanon, NH:

2009 Clinical relevance of lipoprotein lipase and dietary fat uptake by breast cancers
Prouty Pilot Award ($25,000):
Co-investigator (PI: William Kinlaw MD).)

2007 Scatter imaging system to detect tumor-associated stroma in breast tissue.
Radiation Bioengineering Program Prouty Pilot Award ($12,792):
(Co-PI's: Wendy A. Wells MD and Brian W. Pogue, Ph.D.)

2006 Tissue Microarrays: building an interactive database for their creation and collaborative analysis.
Cancer Mechanisms Program Prouty Pilot Award ($12,000):
(PI: Wendy A. Wells MD)

2005 Micro RNAs in the Etiology and Diagnosis of Breast Cancer.
Cancer Mechanisms Program Prouty Pilot Award ($21,000):
Co-investigator (PI: Charles Cole PhD)

Teaching Experience/Current Teaching Responsibilities:

Dartmouth's Geisel School of Medicine:

1990 Basic Histology Lectures (Geisel, Year I)
1990-present Basic Pathological Processes, Small Group sessions (Pathology Course, Geisel, Year I)
Laboratory session supervision (Geisel, Year I)
1990-present Lecture: Benign Breast disease (SBM Reproduction, Geisel, Year II)
Lecture: Ovarian neoplasms (SBM Reproduction, Geisel, Year II)
Lecture: Malignant Breast Disease (SBM Oncology, Geisel, Year II)
Lecture: The Role of the Laboratory in Cancer diagnoses (SBM Oncology, Year II)
1990-2009 Lecture: Gynepathology (Reproduction SBM, Geisel, Year II)
Lecture: Placental pathology (SBM Reproduction, Geisel, Year II)
2005-present: Lecture: The Role of the Hospital Autopsy (Geisel, Year I)

2001-2008 Elective coordinator (Geisel, Years III/IV): Multi-disciplinary Approach to Breast Ca
2016-present Gross organ review, Surgery clerkship students, monthly
2017-2019 Course Director, General Pathology Course (PATH-121), Year 1

Dartmouth-Hitchcock Medical Center:

1992 Gynepathology Course, OB-GYN Junior Staff, weekly
1994-2002 Image Analysis course for Residents, annual
1994-2009 Cytology conferences for Residents & Cytotechnologists
2003-present Breast pathology conferences for Residents
1994-present Breast Tumor Board Conference, weekly
2001-2004 Autopsy conferences (gross and microscopic), weekly
2001-2003 Lecture series on the role of the medical autopsy today, GME-sponsored
2007-present Breast imaging-pathology correlation conference, monthly
2015-present Autopsy Gross Organ Teaching conference for Medicine team, monthly

Invited Presentations:

Regional:

1990 "The quantitative analysis of proliferative and tissue specific antigens in the predictive assessment of tumor behavior." Hitchcock Foundation Trustees, Dartmouth-Hitchcock Medical Center, Lebanon, NH.

Oct. 1996 "Diagnostic Reproducibility and Standardization in Breast Pathologic Diagnoses: Results of the NH Breast Pathology Quality Assurance Study." New Hampshire Society of Pathologists, Manchester, NH.

Nov.1996 "The PAP Smear Examined: Bridging the Gap Between the Laboratory and the Clinician." National Laboratory Training Network, New England Office, MA.

July 1999 "Imaging in Pathology" 12th Annual Clinical Course on Flow and Image Cytometry, Hanover, NH.

April 2001 "From Biopsy to Diagnosis – the Pathologist's Role." Vermont Society of Gastroenterology Nurses and Associates, Hanover, NH.

August 2002 "The Role and Process of the Hospital Autopsy." GME Series, DHMC, Hanover, NH.

April 2005 "Breast Cancer Diagnosis, Prognosis and Translational Research: a Multidisciplinary Approach between Clinicians, Scientists, Epidemiologists and Engineers. Dartmouth Women in Medicine Conference, DHMC, Lebanon, NH

April 2006 "Breast Cancer Diagnosis, Prognosis and Translational Research: A Multidisciplinary Approach which includes Pathologist Assistants". Pathologist Assistant's in New England (PANE), Annual Meeting, DHMC, Lebanon, NH

March 2007 "Breast core biopsies: a practical guide to radiologic correlation, pathologic interpretation and clinical recommendations". Dartmouth Pathology Reviews, Annual meeting, DHMC, Lebanon, NH

June 2009 "Validating Translational Breast Imaging Modalities - the pathologist's perspective". University of Vermont, Burlington, VT

January 2017 "The Hospital Autopsy - functions, barriers and outcomes". Surgery Grand Rounds, Lebanon, NH

January 2018 “Efficiency Transformations in the Clinical Laboratories at DHMC: Our LEAN-Six Sigma experience”. Green Belt Class, Value Institute, DHMC, Lebanon, NH

February 2018 “The Hospital Autopsy: Why patients, their families or their providers should be asking for one”. Premed Dartmouth Undergraduate dinners, Dartmouth College, Hanover, NH

May 2019 “The Laboratory Lean Journey”, Health Care Quality Conference, DHMC, Lebanon, NH

June 1, 2020 “SARS-CoV-2 testing in the COVID-19 pandemic”, Orthopedics Grand Rounds, DHMC, Lebanon, NH

June 9, 2020 “SARS-CoV-2 testing in the COVID-19 pandemic”, Primary Care Grand Rounds, DHMC, Lebanon, NH

July 10, 2020 “SARS-CoV-2 testing in the COVID-19 pandemic”, Surgery and Anesthesiology Grand Rounds, DHMC, Lebanon, NH

July 17, 2020 “SARS-CoV-2 testing in the COVID-19 pandemic”, OBGYN Grand Rounds, DHMC, Lebanon, NH

National:

April 2004 “Pathology correlates for near-infrared imaging in breast.” NCI-NTROI (Network for Translational Research in Optical Imaging, NCI Cancer Imaging Program) Steering Committee Meeting, Rockville, MD.

June 2004 “Network collaborations for pathology-imaging correlations - validation, standardization and reproducibility.” NCI-NTROI (Network for Translational Research in Optical Imaging, NCI Cancer Imaging Program) Retreat, Newport Beach, CA.

September 2004 “The issues of pathology reproducibility in validating correlates for near-infrared imaging.” NCI-NTROI (Network for Translational Research in Optical Imaging, NCI Cancer Imaging Program), Pathology Working Group, Rockville, MD.

January 2005 “Defining the Clinical Role of Optical Methods in Breast Cancer Detection” Panelist with Steven Poplack MD (Dartmouth Medical School) and David Hsiang, University of California/Irvine. International Society for Optical Engineering, Photonics West conference, San Jose, CA. Jan. 19-30, 2005

January 2005 “Alternative Breast Cancer Imaging: Novel Non-Invasive Techniques for Early Detection”. Panelist with Steven Poplack MD (DMS), Brian Pogue PhD (Thayer School of Engineering, Dartmouth College) and Keith Paulsen PhD (Thayer School of Engineering, Dartmouth College). Dartmouth Alumni Association of Silicon Valley, CA

November 2005 “Pathology Validation of Optical Signals in early Cancer Detection”.
NCI-NTROI Workshop – optical imaging for drug discovery, therapeutic response and early detection. University of Maryland, Adelphi, MD. Nov 6-8, 2005

March 2006 “Tissue morphology and novel imaging correlates – the pathologist’s perspective” Optical Society of America, Biomedical Topical Meeting. Fort Lauderdale, FL. March 19-23, 2006

October 2006 “NCI-NTROI Pathology Working Group presentation (co-chair)” Silver Spring, MD October 30 – 31, 2006

June 2007 "Network collaborations for pathology-imaging correlations – genomic correlates in with NIR-imaging in neoadjuvant chemotherapy patients." NTROI-Retreat, Newport Beach, CA. June 29-31, 2007

November 2007 "Breast Cancer sentinel lymphadenectomy standard-of-care and the DHMC experience". Workshop presentation to discuss the GeneSearch^{TM} Breast Lymph Node Assay "Association for Molecular Pathology, Annual Meeting, Los Angeles, CA: Nov. 7-10, 2007

September 2012 "Establishing a Biobanking Operational Plan that Affordably Accounts for Multiple Data Sources, End Users, and Service Providers" Clinical Business Expo, 5th Annual Biorepositories Conference, Seaport World Trade Center, Boston MA Sept 18-20, 2012.

August 2014 "Quantitative Pathology", National Institute for Standards and Technology (NIST), Workshop on Standards for the Advancement of Optical Medical Imaging, Gaithersburg Campus, MD. Aug 26-27, 2014.

January 2016 "Breast Margin Assessment in Ex Vivo Microscopy: the Crucial Role of the Pathologist in Validation" CAP Webinar (IVM/EVM Subcommittee of CAP), Jan 27, 2016.

July 2016 "Justifying the Introduction of Emerging Technologies into a Pathology Department: How to Develop a Business Plan" Association of Pathology Chairs, Annual meeting, San Diego CA, July 12-15, 2016.

October 2016 "The Business Plan to Justify Introducing an Emerging Technology into a Pathology Department that does not yet have a Reimbursement Code. CAP Webinar (IVM/EVM Subcommittee of CAP), Oct 18, 2016.

February 2017 "Breast Margin Assessment by Ex Vivo Microscopy: the Crucial Role of the Pathologist in Validation" Molecular Medicine Tri Conference (Digital Pathology section), San Francisco, CA Feb 20-22, 2017

October 2017 "The Business Plan for Introducing Ex-vivo microscopy into a Pathology Department". Breakfast Seminar, CAP Annual Meeting 2017, Oct 8-11, Washington DC, 2017.

May 2018 "Justify Introducing an Emerging Technology into a Pathology Department that does not yet have a Reimbursement Code. CAP Webinar (IVM/EVM Subcommittee of CAP), May 23, 2018.

June 2018 "The Business Plan for Introducing Ex-vivo microscopy into a Pathology Department" CAP IVM/EVM Course, Washington DC., June 1, 2018.

February 2019 "The Practical Challenges of Integrating Pathology Instruction into a Medical School Longitudinal Curriculum"**,** Southeastern Administrators and Pathology Chairs Regional Conference, Amelia Island, FL. February 1-3, 2019

International:

March 1993 "Image Analysis in Pathology - Bridging the Gap." Image Analysis & Morphometry in Medicine & Biology, Royal Postgraduate Medical School, London (Short Course: March 1-3, 1993)

June 1993 "Morphometry in Pathology." Departments of Anatomy and Histopathology, Kings College Hospital, London.

July 2009 "How NIR imaging predicts the expression of endoglin (CD105) positive angiogenesis during neo-adjuvant chemotherapy treatment for breast cancer" Advances in Optics for Biotechnology, Medicine

and Surgery XI, Clinical Challenges and Research Solutions, Engineering Conferences International, Burlington, VT (June 28-July 2, 2009).

October 2016 "Improving Efficiency in an Academic Pathology Department in the USA: The Dartmouth experience". Chongqing Medical University, 60th Anniversary Celebrations, Oct 3-6, 2016.

Bibliography:

Journal Articles, original:

1. **Simpson WA**, Burke M, Frappell J, Cook MG. Paget's disease, melanocytic neoplasia & hidradenoma papilliferum of the vulva. Histopathology 12(6), June 1988.

2. Harris RD, **Simpson WA.** MRI of Splenic Hemangioma associated with Thrombocytopenia. Gastrointestinal Radiology 14:308-310, 1989.

3. **Simpson WA,** Sullivan MM. Peritoneal Washing Cytology, Check Sample, Continuing Education Program, American Society of Clinical Pathologists, Cytopathology C90-1 (C-199), 18(1), 1990.

4. Harris RD, **Simpson WA**, Marin-Padilla M, Stys S, Crow HC. Placental Hypoechoic-Anechoic Areas and Infarction: Sonograghic-Pathological Correlation. Radiology, 176:75-80, 1990 Key Obstetrics and Gynecology, March 1991 issue (1992 Year Book of Obstetrics and Gynecology), Mosby Year Book Inc.

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Abstracts and Conference Proceedings:
Presented at National Meetings (selected):

1. Gettinger A, **Wells WA,** Rawnsley HR. APACHE II Category Assignment: variability and predicted mortality. Abstract poster presentation at the American Society of Anesthesiologists, San Francisco. Anesthesiology, 75(3A), A272, 1991.

2. Gettinger A, **Wells WA,** Rawnsley HR. APACHE II Category Assignment: correlation with autopsy findings. Abstract poster presentation at the American Society of Anesthesiologists, San Francisco. Anesthesiology, 75(3A), A273, 1991.

3. Cho CH, Marin-Padilla M, **Wells WA**, Harris RD. Pathologic Basis of Placental Abnormalities: Detectable with Ultrasound. Radiology, 193(P):401, 1994.

4. Kaufman A, Memoli V, **Wells WA**, Ratcliffe N, Masser, B, Valone FH. Increased Incidence of Her-2Neu Overexpression in Metastatic Breast and Ovarian Carcinoma. Proc ASCO, 14, 137 1a, 1995.

5. Harris RD, **Wells WA**, Chertoff JD, Poplack SP, Sargent SK, Black MD. Accuracy of Prenatal US in Detection of Circumvallate Placenta. Radiology, 197:364, 1996.

6. Eliassen MS, Carney PA, **Wells WA**. A Statewide Study of Diagnostic Agreement in Breast Pathology. Oral presentation at the 1997 CDC Cancer conference, Atlanta GA, September 2-5.

7. Pogue BW, **Wells WA**, Jiang S, Poplack SP, Tosteson TD, Paulsen KD. Validation of Hemoglobin Concentration Imaging of Breast Tumors Through Comparison with Pathological Assessment. Abstract poster presentation at the OSA, April 2001.

8. North WG, Keegan B, Memoli V and **Wells WA.** "Glycopeptide-Related Surface Antigen (GRSA) appears to be a marker of breast ductal carcinoma in situ. Poster presentation at the AACR, San Francisco, April 2002

9. Pogue BW, Poplack SP, Jiang S, Dehghani H, **Wells WA**, Paulsen KD., "Validation of hemoglobin concentration imaging of breast tumors thought comparison with pathological assessment" Optical Society of America, Advances in Optical Imaging and Photon migration (AOIPM), Miami Beach, FL, April 7-10, 2002

10. Pogue, B. W., Poplack, S. P., Jiang, S., Dehghani, H**., Wells, W. A**., Paulsen, K. D. "Multispectral Near-Infrared Tomography For Hemoglobin-Based Imaging Of Cancer In Vivo.", Progress in Electromagnetics Research Symposium, Cambridge, MA, July 1-5, 2002.

11. Bubis JA, Weaver D, **Wells WA**, Cole BF, Memoli VA, Cates J, Schwartz G, Muss HB, Kaufman PA. HER-2/neu Overexpression: Immunohistochemistry (IHC) or Fluorescence In-Situ Hybridization (FISH)? Poster presentation at the 26th San Antonio Breast Cancer Symposium, San Antonio, TX, December 2003.

12. Kaufman PA, Schwartz GN, Bubis JA, Cates J, **Wells WA**, Moore CP, Connelly EM, Muss HB, Weaver DL. Aneusomy of chromosome (chrom) 17: an alternative mechanism of low level HER-2/*neu* gene amplification that correlates with immunohistochemical (IHC) 2+ protein expression. Poster presentation at the 27th San Antonio Breast Cancer Symposium, San Antonio, TX, December 8-11, 2004.

13. Tafe LJ, Tsongalis GJ, Kaufman PA, Moore CP, **Wells WA**. Breast sentinel lymphadenectomy – is immediate intra-operative assessment warranted? Journal of Clinical Oncology, 2006 ASCO Annual Meeting Proceedings Part 1. 24 (18S) (10533), American Society of Clinical Oncology Annual meeting, Atlanta, GA, June 2-6, 2006.

14. Schwab MC, **Wells WA**, Pogue BW, Meaney PM, Hartov A, Weaver JB, Paulsen KD, Kaufman PA, Tsongalis GJ. Assessing neo-adjuvant treatment response using pathway-specific genomic correlates with morphologic and imaging signatures. Association of Molecular Pathology Annual meeting, Los Angeles, CA, Nov 7-10, 2007.

15. Tafe LJ, Schwab MC, Rizzo EJ, Lefferts JA, **Wells WA**, Tsongalis GJ. A Novel Real Time Reverse Transcriptase - Polymerase Chain Reaction Assay in Evaluation of Breast Cancer Sentinel Lymph Nodes. Association for Molecular Pathology Annual Meeting, Los Angeles, CA Nov 7-10, 2007. Journal of Molecular Diagnostics, Vol. 9, No. 5, 2007:686.

16. Tafe LJ, Schwab MC, Rizzo EJ, Lefferts JA, **Wells WA**, Tsongalis GJ. Real Time Reverse Transcriptase – Polymerase Chain Reaction Assay as an Adjuvant Tool in the Evaluation of Breast Cancer Sentinel Lymph Nodes. 30th Annual San Antonio Breast Cancer Symposium, San Antonio, TX Dec 12-16, 2007.

17. Laughney AM, Scwab MC, **Wells WA**, Pogue BW. Breast Stroma Pathology: Linking Ultra-structural Imaging with Genomic and Proteomic Expression. Gordon Research Conferences: Lasers in Medicine and Biology. July 20-25, Holderness, NH, 2008

18. Laughney AM, Scwab MC, **Wells WA**, Pogue BW. Breast Stroma Pathology: Linking Ultra-structural Imaging with Genomic and Proteomic Expression. American Association for Cancer Research. Pathobiology of Cancer Workshop. July 6-13, Snowmass Village, CO, 2008

19. Rivenbark AG, Livasy CA, **Wells WA**, Tsongalis GJ, Coleman WB, Strahl BD. Global histone H3 lysine 4 methylation patterns in human breast cancer. Experimental Biology, April 5-9, San Diego, CA, 2008.

20. White KK, **Wells WA**, Bowser R, Tsongalis GJ, Coleman WB. Expression of BRCA1 and FAC1 in primary sporadic breast cancers. Experimental Biology, April 5-9, San Diego, CA, 2008.

21. Kaufman PA, Muffly L, Jiang S, Poplack SP, Schwartz G, Lewis P, Tosteson T, Rosenkranz K, **Wells WA**, Paulsen KD, Pogue BW. Tomography (NIR): Role in monitoring neoqadjuvant chemotherapy in women with locally advanced breast cancer (LABC). Breast Cancer Symposium, September 5-7, 2008, Washington, DC

22. Rivenbark AG, Livasy CA, **Wells WA**, Tsongalis GJ, Coleman WB, Strahl BD. Global histone H3 lysine 4 methylation patterns in human breast cancer. Experimental Biology, April 5-9, San Diego, CA, 2008.

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24. Schwab MC, Ninteau NR, Bentley HA, **Wells WA**, Tsongalis GJ. Evaluation of Topoisomerase IIα Gene Amplification in Patients with Invasive Breast Cancer Previously Evaluated for HER2 Status. Abstract presented at the Association of Molecular Pathology Annual meeting, Oct 29-Nov 2, 2008, Grapevine, TX

25. Kaufman PA, Muffly L, Jiang S, Poplack SP, Schwartz G, Lewis P, Tosteson T, Rosenkranz K, Urquhart L, **Wells WA**, Paulsen KD, Pogue BW. Near-Infrared Spectral Tomography (NIR): Role in Monitoring Neoadjuvant Chemotherapy in Women with Locally Advanced Breast Cancer (LABC). ASCO Annual meeting, Orland, FL, 2009.

26. Krishnaswamy V, Laughney AM, **Wells WA**, Pogue BW. " A scanning confocal scatter spectroscopy imager for delineation of tumor margins during lumpectomy," NIH Optical Imaging Workshop", Washington DC, October, 2009

27. Sempere L, Preis M, Ouyang H, **Wells WA**, Longnecker DS, Korc M. Role of microRNAs in the initiation and progression of pancreatic cancer. Pancreatic Cancer Action Network, Pancreatic Cancer Symposium, Oct 16, Los Angeles, CA, 2009.

28. Sempere L, Preis M, Yezefski T, Ouyang H, Suriawinata AA, Silahtaroglu A, Conejo-Garcia JR, Kauppinen S, **Wells WA,** Korc M. Fluorescence-based co-registration with protein markers reveals disctinct cellular compartments for altered microRNA expression in solid tumors. American Association for Cancer Research, 101st. Annual Meeting, Apr 17-21, Washington DC, 2010.

29. Schwab MC, Bentley HA, Dokus BJ, Allen S, Tsongalis GJ, **Wells WA**. Utilization of the Biogenix xMatrix platform for automated processing of FISH slides. Association of Molecular Pathology Annual meeting, Nov 17-20, San Jose, CA, 2010.

30. Schwab MC, Memoli VA, Black CC, Bentley HA, **Wells WA**, Tsongalis GJ. Evaluation of the BioGenex Xmatrx™ Automated Slide Staining System for Automation of the Abbot PathVysion® Her-2 DNA Probe Kit in Previously Examined Breast Cancer Specimen. Association of Molecular Pathology Annual meeting, Nov 17-20, San Jose, CA, 2010.

31. Kuemmerle NB, Rysman E, Lombardo P, Flanagan AJ, Lipe BC, Fricano C, **Wells WA**, Pettus JR, Memoli VA, Morganelli PM, Swinnen JV, Timmerman LA, Chaychi L, Eisenberg BL, Coleman WB, Kinlaw WB. A role for lipoprotein lipase in lipid acquisition by liposarcomas and aggressive breast tumors. American Association for Cancer Research Annual Meeting, Apr 2-6, Orlando, FL, 2011

32. **Wells WA**, Choi, S-H, Schwartz GN, Sempere LF. Automated multiplex assay for diagnostic application of contextual microRNA signatures in breast cancer AACR Noncoding RNAs and Cancer conference, Jan 8-11, Miami Beach, FL, 2012

33. Alma Eguizabal A, Laughney AM, García-Allende PB, Krishnaswamy V, **Wells WA,** Paulsen KD, Pogue BW, Jose M. Lopez-Higuera JM, Conde OM. Blind breast tissue diagnosis using independent component analysis of localized backscattering response. Conference proceedings (8230-39), BIOS SPIE Photonics West, San Francisco, CA, January 21-26, 2012

34. Alma Eguizabal A, Laughney AM, García-Allende PB, Krishnaswamy V, **Wells WA**, Paulsen KD, Pogue BW, Jose M. Lopez-Higuera JM, Conde OM. Enhanced tumor contrast during breast lumpectomy provided by independent component analysis of localized reflectance. Conference proceedings (8230-35), BIOS SPIE Photonics West, San Francisco, CA, January 21-26, 2012.

35. Abou Tayoun AN, Tunkey CD, Tafe LJ, Lee C, Harkins T, Raia G, Amos CI, **Wells WA**, Tsongalis GJ. A Comprehensive assay for CFTR Mutational Analysis Using Next-Generation Sequencing. ASIP, Boston, MA, April 20-24, 2013

36. Tunkey CD, Amos CI, **Wells WA**, Tsongalis GJ. Evaluation of Ion Torrent's AmpliSeq Cancer Hotspot Panel v2 on FFPE Tissues. ASIP, Boston, MA, April 20-24, 2013

37. Peterson JD, Tunkey CD, Strausbaugh LD, Pipas JM, Riggs ER, Bloch KJ, Suriawinata AA, Liu X, Lisovsky M, Amos CI, **Wells WA**, Tsongalis GJ, Tafe LJ. The Development of a Mismatch Repair Gene Sequencing Panel Utilizing Semiconductor Sequencing Technology. J Molec Diagn Nov 2013;15(6):931 (TT21). Association for Molecular Pathology Annual Meeting, Nov.14-16, 2013, Phoenix, AZ.

38. Peterson JD, Tunkey CD, Strausbaugh LD, Gonzalez JL, Memoli VA, Schned AR, Brennick JB, **Wells WA**, Amos CI, Tsongalis GJ. Validation of the Ampliseq Cancer Hotspot Mutation Panel Using the Ion Torrent PGM. J Molec Diagn Nov 2013;15(6):913 (ST42). Association for Molecular Pathology Annual Meeting, Nov.14-16, 2013, Phoenix, AZ.

39. MacKenzie TA, Schwartz GR, Hostetter G, Winn M, Graveel M, **Wells WA**, Sempere LF. Stromal expression of microRNA-21 identified high risk group in triple negative breast cancer. American Association for Cancer Research (AACR), Special Conferences, Cancer Susceptibility and Cancer Susceptibility Syndromes, Jan 29-Feb 1, 2014, San Diego, CA.

40. Steinmetz HB, Perry OM, **Wells WA**, Tafe LJ. Implementing Lean Methods to Improve the HER2 Fluorescence In-Situ Hybridization Process in the Diagnostic Molecular Pathology Laboratory. Poster Presentation and publication in The Journal of Molecular Diagnostics. Association for Molecular Pathology (AMP) Annual Meeting, November 12-15, 2014, Gaylord National Resort & Convention Center National Harbor, MD.

41. Miraflor AP, Abreu F, Peterson JD, Ernstoff MS; Christopher I. Amos CI, **Wells WA**, Yan S, Tsongalis GJ Yan Somatic Mutation Analysis in Melanoma Using Targeted Next Generation Sequencing. Association for Molecular Pathology (AMP) Annual Meeting, November 12-15, 2014, Gaylord National Resort & Convention Center National Harbor, MD.

42. Allen S, Peterson JD, **Wells WA,** de Abreu F. Evaluation of Whole-Genome Amplification for Next-Generation Sequencing Using the Illumina TruSeq Amplicon Cancer Panel. Association for Molecular Pathology (AMP) Annual Meeting, November 12-15, 2014, Gaylord National Resort & Convention Center National Harbor, MD.

43. Maloku E, Tafe LJ, Peterson JD, de Abreu F, Hickey WF, Ronan LK, Fadul CE, **Wells WA**, Amos CI. Clinical Genotyping of Somatic Mutations in Glioma. Association for Molecular Pathology (AMP) Annual Meeting, November 12-15, 2014, Gaylord National Resort & Convention Center National Harbor, MD.

44. Dillon J, Mockus S, Patterson S, Ananda G, Mitchell T, Spotlow V, York E, Palisoul S, **Wells WA**, Tsongalis GJ, Marotti JD. Somatic Gene Mutation Analysis of Triple Negative Breast Cancers. Association of Molecular Pathology Annual Meeting (AMP), Nov 5-7, 2015, Austin, TX. J

Molec Diagn 2015 (Nov):17(6):826, ST58.

45. Expression of Spot-14 and lipoprotein lipase in matched samples of primary and metastatic breast cancer tumor tissue. Bhatt A, Lupien LE, **Wells WA**, Kinlaw WB, Chamberlin MD. Breast Cancer Symposium (ASCO), Sept 25-27, 2015, San Francisco, CA.

46. Quantitative receptor concentration imaging for tumor margin assessment in head and neck surgical resection. Tichauer KM, Chen E, Gunn J, Hoopes PJ, **Wells WA**, Hasan T, Pogue BW, Samkoe KS. SPIE/NIH Biophotonics from Benchtop to Bedside workshop, Sept 24-25, 2015, NIH, Bethesda, MD

47. Somatic Mutation Profiling Using a 50 Gene Cancer Panel: The Dartmouth Experience. De Abreu FB, Peterson JD, Amos CI, **Wells WA**, Tsongalis GJ. Northern New England Clinical Oncology Society annual meeting. Portland, ME (Oct 23-24,2015).

48. McClatchy III DM, Krishnaswamy V, Kanick SC, Elliott JT, Barth, Jr. RJ, **Wells WA**, Paulsen KD, and Pogue, BW "High Spatial Frequency Structured Light Imaging for Intraoperative Breast Tumor Margin Assessment" Proc. SPIE 2015. doi:10.1117/12.2080134

49. McClatchy III DM, Krishnaswamy V, Elliott JT, Barth, Jr. RJ, **Wells WA**, Paulsen KD, Pogue BW. Structured Light Scatteroscopy of Intraoperative Breast Lumpectomy Specimens: Imaging through Blood and Ink. Proc. OSA Biomed 2014. doi:10.1364/BIOMED.2014.BM4A.3

50. McClatchy III, DM, Rizzo EJ, **Wells WA**, Hwang JC, Paulsen KD, Pogue BW, Kanick SC, Wide-field quantitative imaging of intrinsic scatter bio-markers using sub-diffusive structured light," Proc. OSA Biomed 2016 (Accepted, will be presented April 25, 2016)

51. Yi ZS, Cervinski MA, Palko Dinulos MB, Stephanie E. Vallee SE, **Wells WA,** Tsongalis GJ."Molecular Test Utilization Improvements at Dartmouth-Hitchcock Medical Center" (submitted to AMP2016)

52. Akintayo R, Rosenkranz A, **Wells WA**, Ridgway E. Approach to Management Using Evidence Based Medicine: Proliferative Breast Lesions Among Reduction Mammoplasty Specimens (Platform presentation; Plastic Surgery The Meeting 2016, September 23 - 27, 2016 in Los Angeles, CA)

53. Chamberlin MD, Shee K, Varn FS, Bean JR, Marotti JD, **Wells WA**, Trask HW, Hamilton JS, West RJ, Kaufman PA, Schwartz GN, Gemery JM, McNulty NJ, Tsapakos MJ, Barth RJ, Arrick BA, Gui J, Cheng C, Miller TW. Broken promise of liquid biopsy: plasma DNA does not accurately reflect tumor DNA in metastatic breast cancer. San Antonio Breast Consortium Symposium Meeting 2016, Dec 6-10, San Antonio, TX.

54. Peterson, JD, Amos CI, de Abreu FB, **Wells WA**, Tsongalis GJ. Evaluation of the CLC Biomedical Genomics Workbench (BMGW) Platform for Targeted Clinical NGS Data Analysis... Association of Molecular Pathology Annual Meeting (AMP), Nov 10-12, 2016, Charlotte, NC.

55. Shajani-Yi, Z; Cervinski MA, Palko Dinulos MB, SE, **Wells WA**, Tsongalis GJ. Molecular Test Utilization Improvements at Dartmouth-Hitchcock Medical Center. Association of Molecular Pathology Annual Meeting (AMP), Nov 10-12, 2016, Charlotte, NC.

56. De Abreu FB, Peterson JD, Deharvengt SJ, Tafe LJ, **Wells WA**, Tsongalis GJ Validation of the FusionPlexTM Solid Tumor Panel in routine clinical practice. Association of Molecular Pathology Annual Meeting (AMP), Nov 10-12, 2016, Charlotte, NC.

57. Gallagher TL, de Abreu FB, **Wells WA**, Tsongalis GJ. Validation of EGFR Fragment Analysis by PerkinElmer LabChip GX Touch 24. Association of Molecular Pathology Annual Meeting (AMP), Nov 10-12, 2016, Charlotte, NC.

58. Peterson JD, de Abreu FB, Wang Z, **Wells WA**, Tsongalis GJ. Evaluation of the Pillar NGS SLIMampTM Lung and Colon Hot Spots Panel. Association of Molecular Pathology Annual Meeting (AMP), Nov 10-12, 2016, Charlotte, NC.

59. Barth RJ, Krishnaswamy V, **Wells WA**, Angeles C, Rizzo, E, Rooney T, Marotti J, Black, CB, Paulsen KD A patient-specific 3-D printed form accurately transfers supine MRI derived tumor localization information to guide breast conserving surgery. American Society of Breast Surgeons Annual Meeting Apr 26-30, 2017, Las Vegas, NV.

60. Mahmood S, He J, Abreu FB, Deharvengt S, Peterson JD, Steinmetz H, **Wells WA**, Tsongalis GJ. Analysis of Next Generation Sequencing results for pathogenic gene mutations. Northern New England Clinical Oncology Society (NNECOS), 2017 Annual Meeting October 27-28, Stowe VT.

61. De Abre FB, Petersen JD, Deharvengt SJ, Tafe LJ, **Wells WA**, Tsongalis GJ. Evaluation of a 170 gene NGS panel for the detection of RNA and DNA based variants in FFPE solid tumor samples. J Molec Diagn 2017; 1040 (ST133). Association of Molecular Pathology Annual Meeting (AMP), Nov 16-18, 2017, Salt Lake City, UT.

62. David Mcclatchy D, Benjamin Maloney B, Elizabeth Rizzo E, Paulsen K, **Wells WA**, Pogue B. Spatial and Spectral Analysis of in-Situ Tumor-Normal Interfaces in Freshly Resected Lumpectomy Slices using Multispectral Structured Light Imaging. Oral presentation, Optical Society (OSA), Biophotonics Congress: Biomedical Optics, 2018 April 3-6, Hollywood, FL.

63. Gilbert-Diamond D, McClure AC, Rothstein RI, Aaron Weintraub A, Diane Sette D, Gallagher TL, Hughes EG, Tsongalis GJ, **Wells WA**, Batsis JA. Dartmouth-Hitchcock Weight and Wellness Center: how biospecimens support research into the biological changes related to and predictors of weight-loss. Obesity Society Annual Meeting, 2018 Nov 11-15, Nashville, TN.

64. Weaver JB, Khurshid H, Shi Y, Berwin BL, Schartz DA, Friedman BJ, **Wells WA**, Eskey CJ, "Characterizing Thrombus Age and Molecular Organization Using Magnetic Nanoparticle Spectroscopy" SU-KL-DBRB-11 American Association of Physicists in Medicine Annual Meeting, 2018, July 29 - August 2, Nashville, TN (Med Phys 45(6):e371, 2018).

65. Barth RJ Jr., Krishnaswamy V, Paulsen KD, Rooney TB, **Wells WA**, Angeles CV, Zuurbier RA, Rosenkranz K, Poplack SP, Tosteson TD. A Randomized Prospective Trial of Supine MRI Guided vs Wire Localized Lumpectomy for Breast Cancer. Oral presentation, American Society of Breast Surgeons Annual meeting, 2019, May 1-5, Dallas, TX.

66. Weaver JB, **Wells WA**, Schartz DA, Jackson CR, Eskey CJ. Thrombus Classification with Targeted Magnetic Nanoparticles. Oral Poster Presentation, Society of Neuro-Interventional Surgery (SNIS), Annual meeting, 2019, July 22-25, Miami Beach FL.

Presented at International Meetings:

1. Foschini MP, **Simpson WA**, Cook MG, Eusebi V. Long-term follow-up of in-situ carcinoma of the breast. Abstract presented at the Adriatic Soc of Pathol, Cavtat, Yugoslavia 1988.

2. Harris RD, **Simpson WA**, Marin-Padilla M, Stys S, Crow HC. Placental Hypoechoic-Anechoic Areas and Infarction: Sonographic-Pathological Correlation. Abstract presented at the Radiological Society of North America, Annual Meeting, Nov. 1989.

3. **Simpson WA**, Vredenburgh JJ, Ball ED, Memoli VA. PM-81 immunoreactivity with normal, fibrocystic, and malignant breast tissues. Abstract poster presentation at the United States and Canadian Academy of Pathology Meeting, Boston 1990. Laboratory Investigation: 62(1); Modern Pathology: 3(1), 1990.

4. **Wells WA,** Rainer, RO, Memoli, VA. Determination of the mitosis-karyorrhexis index, a prognostic indicator in neuroblastoma, by Macintosh-based image analysis. Abstract poster presentation at the United States and Canadian Academy of Pathology Meeting, Atlanta, 1992.

5. **Wells WA**, Gettinger A, Rawnsley HR. Variability in predicted mortality assessed by "APACHE II" (Acute Physiology and Chronic Health Evaluation) and correlation with the autopsy findings. Abstract poster presentation at the United States and Canadian Acad of Pathol Meeting, Atlanta, 1992.

6. Ratcliffe N, **Wells WA,** Wheeler K, Orndorff K, Kaufman P, Memoli VA. Double staining for c-erb-B2 protein and amplified HER-2/neu in Breast Carcinomas. Abstract poster presentation at the United States and Canadian Acad of Pathol Meeting, Washington, 1996.

7. Poplack SP, Cho CH, **Wells WA.** Ductal Carcinoma-in-situ: Mammographic-pathologic correlation. Abstract poster presentation at the Rad. Soc. of North America meeting, Dec 1996.

8. Chouteau C, Lewis M, Poplack SP, **Wells WA**. Pathological and radiological correlations of image-guided biopsies: A computerized teaching program. Abstract poster presentation at the United States and Canadian Acad of Pathol Meeting, San Francisco, March 1999.

9. Pogue BW, Dehghani H, Jiang S, Song X, Srinivasan S, Soho S, Kogel C, **Wells WA**, Poplack SP, Paulsen KD. "Near-infrared measurement of breast tissue biology and pathology" Engineering Conferences International, Advances in Optics for Biotechnology, Medicine and Surgery, Banff Alberta Canada, August 3-7, 2003.

10. **Wells WA**. Comparison of pathologically-measured morphologic features to near-infrared tomography images. International Society for Optical Engineering (SPIE), Photonics West conference, San Jose, CA. January 22-27, 2005

11. Dufresne SD, Belloni DR, **Wells WA**, Tsongalis GJ. BRCA1 and BRCA2 mutation screening using high resolution melt curve analysis. Abstract poster presentation at the United States and Canadian Acad of Pathol Meeting, San Antonio, TX, March 2005. Mod Pathol;18(Suppl 1):328A (1523)., 2005

12. Pogue BW, Carpenter CM, Yalavarthy PK, Deghgani H, Jiang S, Wang X, **Wells WA**, Kogel CA, Poplack SP, Weaver JB, Paulsen KD. Proposed methods to improve false positive and false negative rates in MR breast imaging, through combination with NIR broadband spectroscopy/tomography (Invited Paper). International Society for Optical Engineering (SPIE), Photonics West conference, San Jose, CA. January 21-26, 2007

13. Tafe LJ, Schwab MC, Rizzo EJ, Lefferts JA, **Wells WA**, Tsongalis GT . Standardizing Breast Sentinel Lymph Node Processing: The Role of a Real Time Reverse Transcriptase Polymerase Chain Reaction Assay. United States and Canadian Academy of Pathology's 97th Annual Meeting (USCAP), March 1-7, 2008, Denver, CO

14. Poplack SP, Barth RJ, Heinemann S, **Wells WA**, Silverstein M. New Findings on Contrast Enhanced Magnetic Resonance Imaging (CEMRI), the "Black Hole" and "Cryohalo" are Markers for the Efficacy of Ultrasound (US) Guided Cryoablation of Small (≤15mm) Unifocal Invasive Ductal Breast Cancer. Radiological Society of North America (RSNA) Annual Meeting, Nov 30-Dec 5, Chicago, 2008.

15. Laughney, A., Krishnaswamy, V., Schwab, M., **Wells, W. A**., Paulsen, K. D., Pogue, B. W., "Biophysical interpretation and ex-vivo characterization of scattered light from tumor-associated breast stroma" in Optical Tomography and Spectroscopy of Tissue VIII, edited by Bruce J. Tromberg, Arjun G. Yodh, Mamoru Tamura, Eva M. Sevick-Muraca, Robert R. Alfano, Proceedings of SPIE Vol. 7174 (SPIE, Bellingham, WA 2009)

16. Krishnaswamy V, **Wells WA**, Laughney AM, Samkoe, K, Pogue BW. "A multispectral, dark-field, reflectance microscope for tumor margin delineation during breast lumpectomy," in Biomedical Applications of Light Scattering III, A. Wax and V. Backman, Eds., Proc. SPIE, vol. 7187, (2009)

17. Pakalniskis M, Schwab MC, Jiang S, Pogue BW, Li Z, Tosteson T, Poplack SP, Schwartz G, Kaufman PA, Paulsen KD, **Wells WA**. Assessing prospectively and quantitatively the utility of near-infrared spectral tomography (NIR) in measuring response to neoadjuvant chemotherapy in women with invasive breast cancer. Radiological Society of North America (RSNA) Annual Meeting, Nov 29-Dec 4, Chicago, 2009.

18. Laughney A, Krishnaswamy V, Schwab M, **Wells WA**, Cuccia DJ, Tromberg BJ, Paulsen KD, Pogue BW. Biophysical interpretation and ex-vivo characterization of scattered light from tumor-associated breast stroma. Proceedings of the SPIE BiOS Conference, Optical Tomography and Spectroscopy of Tissue, San Jose CA, January 2009.

19. Krishnaswamy V, Laughney AM, Samkoe KS, **Wells WA**, Paulsen KD, Pogue BW. Broadband Scatter Spectroscopy Imager for Breast Tumor Margin Delineation. OSA Biomedical Optics (BIOMED), Miami, FL, April 11-14, 2010.

20. Laughney AM, Krishnaswamy V, Garcia-Allendec PB, **Wells WA**, Condec OM, Paulsen KD, Pogue BW. Imaging Breast Pathology in situ using Broadband Scatter Spectroscopy and a K-Nearest Neighbor Classifier. OSA Biomedical Optics (BIOMED), Miami, FL, April 11-14, 2010.

21. Laughney AM, Krishnaswamy V, Cuccia D, Rice T, Tromberg B, **Wells WA**, Paulsen KD, Pogue BW. Guided assessment of lumpectomy margins using multispectral spatially modulated structured light. Conferences on Biomedical Optics (ECBO), Munich, Germany, May 22-26, 2011

22. Alma Eguizabal A, Laughney AM, García-Allende PB, Krishnaswamy V, **Wells WA**, Paulsen KD, Pogue BW, Jose M. Lopez-Higuera JM, Conde OM. ICA-Guided delineation of Breast Cancer Pathology. Conference Proceedings and poster presentation (Paper #1731), IEEE International Symposium on Biomedical Imaging, Barcelona, Spain, May 2-5, 2012.

23. Alma Eguizabal A, Laughney AM, García-Allende PB, Krishnaswamy V, **Wells WA**, Paulsen KD, Pogue BW, Jose M. Lopez-Higuera JM, Conde OM. Textural analysis of optical scattering for identification of cancer in breast surgical specimens. Conference Proceedings and poster presentation (Paper #1775), IEEE International Symposium on Biomedical Imaging, Barcelona, Spain, May 2-5, 2012.

24. Bond JS, Marotti JD, Memoli VA, **Wells WA**, diFlorio-Alexander RM. Microvessel Density and Distribution in MRI-Detected Benign Breast Lesions. United States and Canadian Academy of Pathology's Annual Meeting (USCAP), March 2-8, 2013, Baltimore, MD

25. Bond JS, DeFlorio-Alexander RM, Memoli VA, **Wells WA**, Poplack SP, Marotti JD. MRI-Detected Benign Papillary and Sclerosing Lesions of the Breast: Microvessel Analysis with Radiologic Correlation. United States and Canadian Academy of Pathology's Annual Meeting (USCAP), March 1-7, 2014, San Diego, CA.

Book Chapters:

1. **Wells WA**, Memoli VA. Image Analysis. In: Gerald J. Kost, Ed. Clinical Laboratory Automation, Robotics and Knowledge Optimization. The Wiley-Interscience Series on Laboratory Automation. Chapter 14, 1996, John Wiley & Sons, Inc.

2. **Wells WA.** The Diagnostic Reproducibility of Ductal Carcinoma in Situ. In: Melvin J. Silverstein, MD, Ed. Ductal Carcinoma in situ (DCIS) of the Breast, Chapter 22 p. 264-271, 2002: Second Edition, Lippincott Williams & Wilkins

3. Poplack SP, **Wells WA**, Paulsen KD. Four Alternative Breast Imaging Modalities. In: Paulsen KD, Meaney PM, Gilman LC, Ed. Alternative Breast Imaging; Four Model-based Approaches, Chapter1 p. 1-24, 2005: First Edition, Springer Science, Inc.

Webcasts:

1. College of American Pathologists – Creating a Business Plan for Emerging Technologies. https://soundcloud.com/pathologists/want-to-bring-an-emerging-technology-into-your-lab-write-a-business-plan
   ttps://itunes.apple.com/us/podcast/capcast/id1279391140?mt=2

Institutional Publications:

1. "The Final word": Grand Rounds Essay, Dartmouth Medicine, Winter edition 2003, p 24.

Community Positions:

2003-2007: Parent Coordinator, Korean Student Association, Dartmouth College, "Big Sib Little Sib" community mentoring program

2006-2008: Board of Trustees, Thetford Academy School, VT:
- Nominations Committee (2006-2007)
- Academic Affairs Committee (2006-2008)
- Development Committee (2007-2008)