

Curriculum Vitae and Bibliography

Carolyn C. Compton, M.D., Ph.D.

PERSONAL INFORMATION

Place of Birth: Philadelphia, Pennsylvania
Citizenship: United States
Email Address: comptcar@gmail.com

PRESENT ACADEMIC RANK AND POSITION

Adjunct Professor of Pathology – Johns Hopkins Medical Institutions, Baltimore, MD 2007 – Present
Professor of Pathology – University of Arizona, Tucson, AZ 2012 - Present
Professor of Life Sciences – Arizona State University, Phoenix, AZ 2012 – Present
Professor of Pathology and Laboratory Medicine - Mayo Medical School, Rochester MN 2014 - Present

EDUCATION

Johns Hopkins Hospital, Baltimore, MD 1966 & 1967
Summer Research
University of Geneva, Geneva, Switzerland 1967 – 1968
Junior Year Abroad
Bryn Mawr College, Bryn Mawr, PA 1969
BA, Biology
Harvard Medical School, Boston, MA 1977
MD
Harvard Graduate School of Arts & Sciences, Cambridge, MA 1977
Ph.D., Anatomy
Brigham and Women's Hospital, Boston, MA 1978 – 1981
House Officer – Intern, Resident, Pathology
Brigham and Women's Hospital, Boston, MA 1981
Chief Resident, Pathology

BOARD CERTIFICATION(S)

American Board of Pathology
Clinical and Anatomic Pathology 1984

LICENSURE

Massachusetts #54861 1981 (inactive)
Province of Quebec, Canada #00402 2000 (inactive)
Maryland #D0074014 2006 (active)

National Provider Number	1073665162	2006 (active)
Arizona	#46131	2012 (active)

HONORS/AWARDS

Aesulapian Society – Harvard Medical School	1972
President’s Award – College of American Pathologists	2000
Frank W. Harman Award – College of American Pathologists	2003
Award of Merit – NIH (Group award for the Biorepository Coordinating Committee – chaired by Dr. Compton)	2006
Award of Merit – NIH (Group award for the Biorepository and Biospecimen Research – directed by Dr. Compton)	2006
America’s Top Physicians – Consumers’ Research Council of America	2007
America’s Top Pathologists – Consumers’ Research Council of America	2007
America’s Top Pathologists – Consumers’ Research Council of America	2008
America’s Top Pathologists – Consumers’ Research Council of America	2009
NIH Director’s Award - NIH Group Award for the NCI Community Cancer Centers Program	2009
America’s Top Pathologists – Consumers’ Research Council of America	2010
NIH Director’s Award - NIH Group Award for the NCI Community Cancer Centers Program	2011
NIH 2011 Gold Plain Language/Clear Communication Award - NIH	2011
Honorary Director Tissue Bank Consortium of Asia - Tissue Bank Consortium of Asia	2011
ISBER Award for Outstanding Achievement in Biobanking	2011
Women of Influence - Tucson, AZ	2012
Pathology Power List – Top 100 pathologists of 30,000 worldwide	2015

PREVIOUS PROFESSIONAL POSITIONS AND MAJOR APPOINTMENTS

Assistant Professor of Pathology – University of Massachusetts Medical School, Worcester, MA	1982 – 1984
Staff Pathologist and Acting Chief – Hospital Pathology, Department of Pathology, University of Massachusetts Medical Center, Worcester, MA	1982 - 1984
Director – Surgical Pathology, Autopsy Pathology, Residency Program, University of Massachusetts Medical Center, Worcester, MA	1982 – 1984
Assistant Professor of Medicine – University of Massachusetts Medical School, Worcester, MA	1983 – 1984
Assistant Pathologist – Department of Pathology, Massachusetts General Hospital, Boston, MA	1985 - 1989
Assistant Professor of Pathology – Harvard Medical School, Boston, MA	1985 – 1990

Chief of Gastrointestinal Pathology – Department of Pathology, Massachusetts General Hospital, Boston, MA	1986 – 2000
Assistant Histochemist – Department of Surgery, Massachusetts General Hospital, Boston, MA	1989
Assistant Pathologist – Department of Pathology, Shriners Burns Hospital, Boston, MA	1985 – 1989
Associate Histochemist – Department of Surgery, Massachusetts General Hospital, Boston, MA	1990 – 1992
Associate Pathologist – Department of Pathology, Massachusetts General Hospital, Boston, MA	1990 – 1998
Associate Pathologist - Department of Pathology, Shriners Burns Hospital, Boston, MA	1990 – 1998
Associate Professor of Pathology – Harvard Medical School, Boston, MA	1990 – 1998
Pathologist – Department of Pathology, Massachusetts General Hospital, Boston, MA	1990 – 2000
Pathologist – Department of Pathology, Shriners Burns Hospital, Boston, MA	1990 – 2000
Histochemist – Department of Surgery, Massachusetts General Hospital, Boston, MA	1992 – 2000
Pathologist-in Chief, Director of Laboratories – Department of Pathology, Shriners Burns Hospital, Boston, MA	1992 – 2000
Consultant in Gastrointestinal Pathology – National Cancer Institute, Bethesda, MD	1995 – 2005
Professor of Pathology – Harvard Medical School, Boston, MA	1998 – 2000
Member/Pathologist – Dana Farber – Harvard Cancer Center	1998 – 2000
Professor of Oncology – Department of Oncology, McGill University, Montreal, Quebec, Canada	2000 – 2005
Strathcona Professor and Chairman – Department of Pathology, McGill University, Montreal, Quebec, Canada	2000 – 2005
Pathologist-in-Chief – McGill University Health Center, Montreal, Quebec, Canada	2000 – 2005
Director of Biorepositories and Biospecimen Research - National Cancer Institute, Office of the Director, Bethesda, MD	2005 – 2012
Pathologist – Department of Pathology, National Cancer Institute Clinical Center	2005 - 2012
Acting Director – Office of Technology and Industrial Relations, National Cancer Institute, Bethesda, MD	2007 – 2009
Executive Director – The Cancer Human Biobank, (caHUB®), National Cancer Institute, Bethesda, MD	2009 – 2012
Adjunct Professor of Pathology Johns Hopkins School of Medicine	2006 - present
CEO and President – Critical Path Institute	2012 – 2013
CMO - National Biomarker Development Alliance	2013- present
CMO – Complex Adaptive Systems Institute, ASU	2013 –present
Professor of Laboratory Medicine and Pathology Mayo Clinic School of Medicine	2014 - present

PROFESSIONAL & COMMUNITY MEMBERSHIPS, SOCIETIES AND SERVICES

Professional Memberships & Services

United States Technical Advisory Group (USTAG) to International Standards Organization: Member ISO276; WG4 2016 – present

Clinical and Laboratory Standards Institute
Member: CLSI MM13 - Molecular Pathology 2016 – present

Alliance for Clinical Research Excellence and Safety (ACRES)
Member Executive: Site Accreditation and Standards Initiative 2016 –present

Arizona Society of Pathologists
Member 2016 - present

International Society for Biological and Environmental Resources (ISBER) – member ISBER International Review Board 2017 - present

College of American Pathologists

- Fellow 1993
- Member 1994 – Present
 - Commission on Cancer
 - Delegate 1997 – 2006
 - International Union Against Cancer (UICC)
 - Delegate 1998 – 2006
 - CAP Cancer Committee
 - Member 1994 – 2004
 - Task Force on Gastric Carcinoma
 - Co-Chairman 1995
 - Task Force of Gastrointestinal Lymphomas
 - Co-Chairman 1995
 - Task Force of Esophageal Carcinoma
 - Co-Chairman
 - Cancer Committee
 - Vice-Chair 1997 – 2000
 - Chair 2000 – 2004
 - NCI Liaison 2005 – 2011
 - Publications Committee
 - Member 1998 – 2000
 - Council on Scientific Affairs
 - Member 2005 – 2008
 - American Joint Commission on Cancer
 - CAP Delegate 1998 – 2008
 - CAP Conference XXVI
 - Colorectal Taskforce
 - Advisory Committee 1994
 - CAP Conference XXXV
 - Working Group on Colorectal Carcinoma
 - Co-Chairman 1999
 - CAP Personalized Healthcare Committee
 - Member 2015 - present
 - Specimen Standards for Precision Medicine Task Force
 - Chair 2015 – present
 - CAP Representative to Beau Biden Cancer Moonshot 2016 - present

Foundation for Biomedical Research

National Representative and Spokesperson 1986 – 1989

Colorectal Cancer Association of Canada Annual Public Forum on Colon Cancer Lecturer	2001 – 2003
Royal Society of Medicine Fellow	2011
American Association of Pathologists Member	
New England Society of Pathologists Member	
American Association for the Advancement of Science Member	
European Society for Dermatological Research Society of Investigative Dermatology Member	
Wound Healing Society Member	
American Burn Association Member	
International Society for Burn Injuries Member	
American Gastroenterological Association Member	
American Society for Investigative Pathology Member	
American Society for Clinical Oncology Molecular Oncology Task Force Member	2002
Education Committee Member	2002
Pathology Task Force Chair	2003
Compendium Task Force Member	2004 – 2006
Cancer Multidisciplinary Management Course Faculty	2005 – 2006
Biomarkers/Imaging Task Force Member	2005 – 2006
Cancer Research Committee Member	2006 – 2009
American College of Surgeons, Commission on Cancer Executive Committee Member	2010 – 2014
ACOG Oncology Trials Group Colon and Rectal Organ Site Committee Member	1998 – 2005
Colon Genetics Committee Member	1998 – 2005

Colon and Rectum Working Group	
Member	1998 – 2005
Pathology Committee	
Member	1998 – 2005
Cancer and Leukemia Group B (CALGB)	
Pathology Core Committee	
Vice-Chairman	1996 – 1997
Surgical Pathology Subcommittee	
Chairman	1998 – 2006
Colorectal Pathology Cadre	
Leader	1998 – 2006
Board of Directors	
Member	1998 – 2006
Executive Committee	
Member	1998 – 2006
GI Executive Committee	
Member	1998 – 2006
Correlative Science Steering Committee	
Member	1998 – 2006
Commission on Cancer	
Member	1998 – Present
National Colorectal Patient Care Evaluation Study	
Pathology Chair	1996 – 2000
Committee on Standards	
Member	1998 – 2004
Vice-Chair	1999 – 2001
Quality Assessment Committee	
Vice-Chair	2001 – 2004
Colorectal Cancer Site Team	
Pathology Leader	2002 – 2003
Executive Committee	
Member	2002 – 2006
Member	2008 – 2014
American Joint Committee on Cancer	
Member	1998 - present
CAP Representative	1998 - 2003
Vice Chair	2007 - 2008
Chair	2008 - 2013
Editorial Board, 8 th Ed. AJCC Staging Manual	2013 – Present
Chair, Precision Medicine Core	2013 - Present
Executive Committee	
Member	2000 - Present
Chair	2007 - 2008
Education and Publicity Task Force	
Chair	2000 – 2008
Task Force for TNM Revision of Colon Cancer	
Member	2000 – 2005
Canadian Committee for Cancer Staging	
Representative	2000 – 2006

Union for International Cancer Control	2005 – present
Member TNM Committee	2005 – present
US Representative from AJCC	
	2016 - present
Green Park Collaborative Genomic Task Force	
Member	
	2015
National Comprehensive Cancer Network	
Member, Tissue Allocation Working Group	
National Gastrointestinal Tumor Consortium	
Chair	1986 – 1989
National Institutes of Health	
Study Section Clinical Sciences II	
Member	1990
Study Section SPORE in Gastrointestinal Cancer	
Member	1993
National Cancer Institute (NCI)	
Clinical Trials Intergroup – Tissue Banking Committee	
Member	1997 – 2006
Quality Assurance Subcommittee	
Member	1997 – 1999
Colorectal Cancer Task Force for Standardized Reporting	
Chair	2000 – 2001
Education Sub-Committee	2004 – 2006
Chair	2004 – 2006
Roundtable on Colorectal Cancer	
Member	2000
Treatment Breakout Group	
Member and Discussion Leader	2000
Genetics Breakout Group	
Member	2000
Round Table on Pancreatic Cancer	
Pathology/Tumor Biology Subcommittee	
Chair	2001
National Dialog on Cancer Research Team I	
Tissues Access Working Group	
Member	2002 – 2003
Design Team for Biospecimen Collection and Storage	
Member	2002 – 2003
Program for the Assessment of Clinical Cancer Tests	
Colorectal Working Group	
Member	2002
Exploring Cancer Through Genomic Sequence Comparisons	
Participant	2004
Clinical Proteomics and Biomarker Discover for	
Early Detection of Cancer	
Participant	2004
Worldwide Biobank Summit II	
Tissue Banking in Clinical Trials	
Chair Working Group	2004
Worldwide Biobank Summit III	
Tissue Banking in Clinical Trials	
Chair Working Group	2005

Institute of Medicine

Institute of Pathology Tissue Repository
 Committee on the Appropriate Use of the Armed Forces
 Member 2011 – 2012

National Cancer Institute of Canada

Clinical Trials Group
 Tissue Banking and Correlative Science Committee
 Chair 2001 – 2004
 Executive Committee
 Member 2001 – 2004

United States and Canadian Academy of Pathology

Member 1994 – Present

Gastrointestinal Pathology Society

Education Committee 1994 – 2006
 Abstract Review Committee 1995 – 1997
 Publications Committee 2000 – 2002

Community Memberships & Services**Boston Marathon**

Olympic Committee
 Representative 1988 – 1989
 Drug Testing and Medical Monitor for Female Winner

JOURNAL RESPONSIBILITIES**Journal Editorial Responsibilities**

American Joint Committee on Cancer Staging Atlas
 Editorial Board 2004 – 2006

7th Edition TNM Staging Manual
 Editorial Board 2006 – 2009

Critical Care Medicine
 Editorial Board 1990 – 1996

Harvard Digestive Health and Nutrition
 Editorial Board 1996 – 1997

American Journal of Clinical Pathology
 Editorial Board 1996 – 2003

Digestive Disease
 Editorial Board 1998 – 2004

Gut
 Editorial Board 2000 – 2005

Cancer
 Associate Editor

Pathology Section Editor	2000 – 2013
Clinical Colorectal Cancer Editorial Board	2002 – 2005
Journal of Clinical Oncology Editorial Board	2004 – 2006
Biopreservation and Biobanking Editorial Board	2006 – Present
Clinical Proteomics Editorial Board	2007 – Present
Journal of Molecular Nanotechnology and Nanomedicine Editorial Board	2014 – Present
Immunome Research Journal Editorial Board	2014 – Present
Gastrointestinal Cancer: Research and Therapy Editorial Board	2016 – Present
Austin Journal of Gastrointestinal Cancer Editorial Board	2016 – Present
Current Pathobiology Reports, Springer Nature Editor-in-Chief	2017 - Present

BOARD RESPONSIBILITIES

Board of Directors HealthTell Inc. Chandler, AZ	2014 – Present
Scientific and Ethical Advisory Board BBMRI-ERIC Europe Graz, Austria	2014 – Present
Chair, Scientific Advisory Committee Indivumed, GmbH Hamburg, Germany	2015 – Present
Scientific Advisory Board CloudLIMS Wilmington, DE	2015 – Present
BBMRI Ethical and Scientific Advisory Board Graz, Austria	2015-present
Roche Global Pre-Analytics Advisory Board Roche Diagnostics Indianapolis, IN	2016 – present
Scientific Advisory Board Pathology Artificial Intelligence Guidance Engine (PAIGE) New York, NY	2017 - present
ISBER International Review Board	2017 – present

EDUCATIONAL ACTIVITIES**Curriculum/Course Development**

Design/authorship of Self Teaching Text in General and Systemic Pathology used Internationally in Medical Education: Now in 4 th English Edition with Spanish and Portuguese Translations	1985 – Present
Redesign and Replacement of All Teaching Materials for Pulmonary Pathology and Cardiovascular Pathology Laboratories of the Human Systems Course Harvard Medical School	1990
Redesign and Replacement of all Teaching Materials for Gastrointestinal Pathology Laboratories of the Human Systems Course Harvard Medical School	1991
Course Co-Director and Lecturer Continuing Education Course: Pathology of the Gastrointestinal Tract and Pancreas Harvard Medical School	1996 – 2000
Course Co-Director The Surgical Pathology of Gastrointestinal Polyps USCAP Short Course	1996 – 2000
Course Director Preanalytics for Precision Medicine CAP Educational Course, Annual Meeting	CAP16, CAP17

Teaching

Histology and Ultrastructure Laboratory Instructor Harvard Medical School	1973 – 1976
Gross Anatomy Tutor Harvard Medical School	1974 – 1975
Gastrointestinal Pathology Laboratory Instructor Harvard Medical School	1978 – 1981
H.S.T. General and Systemic Pathology Laboratory Instructor Harvard Medical School	1980 – 1982
H.S.T. General and Systemic Pathology Laboratory Instructor and Lecturer Harvard Medical School	1981 – 1982
Pathology Clerkship for Harvard Medical School III/IV Chief Resident in Pathology and Primary Instructor Brigham and Women's Hospital	1981
Gastrointestinal Pathology Course Director, Lecturer, and Laboratory Instructor University of Massachusetts Medical School	1982 – 1984
Respiratory Pathology Laboratory Coordinator and Instructor University of Massachusetts Medical School	1982 – 1984
Endocrine Pathology Laboratory Instructor and Lecturer University of Massachusetts Medical School	1982 – 1984

Reproductive Pathology Laboratory Instructor University of Massachusetts Medical School	1982
Skin and Bone Pathology Laboratory Instructor University of Massachusetts Medical School	1982 – 1984
General Pathology Laboratory Instructor and Lecturer University of Massachusetts Medical School	1982 – 1984
Systemic Pathology Faculty Tutor University of Massachusetts Medical School	1982 – 1984
Gastrointestinal Pathophysiology Laboratory Instructor Harvard Medical School	1985
Systemic Pathology for Pathology Residents Yearly lecture in seminar series University of Massachusetts Medical Center	1982 – 1985
Gastrointestinal Cancer Pathology Yearly lecture clinical oncology seminar series for postdoctoral fellows Massachusetts General Hospital	1985 – 2000
Gastrointestinal Pathology Yearly lecture systemic pathology for pathology Massachusetts General Hospital	1985 – 2000
Current Concepts in Surgical Pathology Yearly lectures (2-3) on selected topics in gastrointestinal pathology CME course Harvard Medical School and Massachusetts General Hospital	1985 – 2000
Intensive Care Medicine CME course Harvard Medical School and Massachusetts Hospital	1985 – 2000
The Body Laboratory Instructor, Tutor, Lecturer Harvard Medical School	1986
Human Systems Laboratory Instructor - Lecturer Harvard Medical School	1987 – 1989
Human Systems Gave all lectures on pathology of the gastrointestinal tract, gastrointestinal pathophysiology Harvard Medical	1987 – 2003
Epithelial Biology Yearly lecture cell biology seminar series for medical students and postdoctoral fellows New York University School of Medicine	1990 – 1991
Human Systems Pathology Laboratory Coordinator Harvard Medical School	1990 – 1991
Human Systems Pathology Laboratory Section Leader Cannon Society, Gastrointestinal Pathophysiology Harvard Medical School	1991 – 2000

Pathology of the Small Bowel and Colon Lecturer Intensive review of Gastroenterology and Hepatology Course Harvard Medical School, Massachusetts General, Brigham and Women's, and Beth Israel Hospitals	1995
Vascular and Muscular Diseases of the Gastrointestinal Tract; Critical Issues in the Pathology of Gastrointestinal Malignancy; The Pathology of Pancreatic Tumors Lecturer Annual CME Course – Pathology of the Gastrointestinal Tract and Pancreas Harvard medical School	1996 – 2005
Gastrointestinal Pathophysiology, HST – 120 Lecturer Harvard Medical School	1997 – 2000
Endocrine Polyps; Mucosal Prolapse Polyps; Hamartomatous Polyps; GI Heterotopias Short Course Presentations IAP/USCAP	1997 – 2002
Liver Biopsy Review CME Course Harvard Medical School	1998 – 2000
An Update on Gastritis Keynote Speaker University of Toronto Pathology Update	2000
Systemic Pathology, Year II – Small Group Teaching Unit 8 Instructor McGill University	2000 – 2005
53 RD Annual Dr. Cam Coady Slide Seminar Canadian Association of Pathology Quebec City, Quebec	2001
Gastrointestinal Pathology Elective Director McGill University	2001 – 2005
Back to Basics: Colon Cancer Lecturer McGill University	2001 – 2005
Grading of TME Specimens; TNM-R Staging Course on Optimum Management of Rectal Cancer University of British Columbia Vancouver, British Columbia, Canada	2002
Oncology Grad Program: Principles of Diagnosis and Staging in Oncology Lecturer McGill University	2002 – 2005
The Power of Pathology in Colorectal Cancer MacGregor Memorial Lecture Department of Laboratory Medicine and Pathology, University of Alberta Edmonton, Alberta, Canada	2003
Pathologic Staging of Colorectal Cancer Lecturer Annual CME Course John Hopkins Hospital, Department of Pathology	2004 – Present

Grand Rounds Presentations
 Numerous Institutions and Departments (including: Pathology, Surgery,
 Plastic Surgery, Medicine, Gastroenterology, Dermatology) 1984 – Present

BIO 302: Cancer: The Mother of All Diseases 2014 - Present
 BIO 302 Honors
 Course Director
 Arizona State University

Mentorship

Regauer, Sigrid (Post-doctoral Research Fellow) 1987 – 1992
Description: Graduate of Heidelberg Medical School, Germany
Outcomes: Published 7 papers; 13 abstracts in 3 year fellowship
Current Status: Professor of Pathology, Pathology Institute of
 Gratz, Austria

Tallbert, Michael (Gastrointestinal Pathology Fellow) 1988 – 1989
Description: 1 year training in GI Pathology
Outcomes: Published 2 papers
Current Status: Lloyd E. Rader Professor and Chairman,
 Department of Pathology, Director, Pathology Residency Program,
 and Chief of Pathology Services, Oklahoma Univ Medical Center

Deschler, Daniel (Medical Student)
Description: Harvard Medical Student
Outcomes: Honors Thesis Project
Current Status: Director, Division of Head and Neck Surgical
 Oncology and Director, Norman Knight Center, Massachusetts
 Eye and Ear Hospital

Rizk, Ibrahim (Post-doctoral Research Fellow) 1990 – 1991
Description: Cairo, Egypt
Outcomes: 2 years fellowship in wound healing lab
Current Status: Professor of Plastic Surgery, Cairo University

Sarkiss, Mona (Post-doctoral Research Fellow) 1988 - 1990
Description: Bristol, United Kingdom
Outcomes: 1 year fellowship in wound healing lab
Current Status: Assoc. Prof. Dept. of Anesthesiology, MD
 Anderson Cancer Center

Burd, Elizabeth (Post-doctoral Research Fellow) 1988 – 1990
Description: Bristol, United Kingdom
Outcomes: 2 years fellowship, wound healing
Current Status:

Milner, Stephen (Post-doctoral Research Fellow) 1991 – 1992
Description: Wiltshire, United Kingdom
Outcomes: 1 year fellowship wound healing
Current Status: Hendrix Burn Research Center
 Professor of Plastic and Reconstructive Surgery

Green, Howard A. (Post-doctoral Research Fellow) 1989 – 1991
Description: Department of Dermatology, MGH
Outcomes: 1 year fellowship, wound healing
Current Status: Dermatologist in Palm Springs (one of
 America's Top Doctors)

Tong, Yiai (Post-doctoral Research Fellow) 1991 – 1992
Description: National Medical Research Council of Canada
Outcomes: 2-year fellowship wound healing, 2 publications
Current Status: Scientist, St. Jude, Memphis

- Trookman, Nathan (Medical Student) 1991 – 1992
Description: Harvard Medical School
Outcomes: Honors Thesis Project
Current Status: Dermatologist, Colorado Springs
- Califano, Joseph (Medical Student) 1992 - 1993
Description: Harvard Medical School
Outcomes: Honors Thesis Project
Current Status: Professor, Otolaryngology-Head and Neck Surgery, and Head & Neck Research Division, Johns Hopkins
- O'Neil Smith, Kathleen (Medical Student) 1992 – 1993
Description: Boston University
Outcomes: Research Project
Current: Status Internist, Boston, MA
- Budkevich, Ludmila (Post-doctoral Research Fellow) 1993 – 1994
Description: Moscow, Russia
Outcomes: 1 year fellowship wound healing
Current Status: head of the Speransky Children's. Hospital Burn Unit. Mikhail Kazbekov, Russia
- Bantick, Giles (Post-doctoral Research Fellow) 1994 – 1996
Description: Fulbright Fellow, C.I.E.S., Royal College of Surgeons, London, United Kingdom
Outcomes: 2 year fellowship, wound healing
Current Status: Consultant plastic surgeon, Fellow of the Royal College of Surgeons of England; Lead for Plastic Surgery at Chelsea and Westminster Hospital (head of department).
- Kratz, Gunnar (Post-doctoral Research Fellow) 1995 – 1996
Description: Karolinska University, Stockholm, Sweden
Outcomes: 1 year fellowship wound healing; 2 publications
Current Status: ounder of Karocell Tissue Engineering AB. He has built and managed the laboratory for Experimentel Surgery and Tissue Engineering at the Karolinska University Hospital since the beginning of the 1990's. Since March 2002 he is Professor in Reconstructive Plastic Surgery at the University Hospital in Linköping.
- Grigoriades, Kyiakos D. (Gastrointestinal Pathology Fellow) 1995 – 1996
Description: Athens, Greece
Outcomes: 1 year GI pathology fellowship
Current Status: Director, Associate Consultant, private practice, Athenian Clinic; Associate Consultant, Athens Medical Center, Palaio Faliro Clinic, and Associate Consultant, Athinaiki Clinic
- Acierno, Paula (Doctoral Candidate in Biochemistry) 1996
Description: Tuft's University
Outcomes: Summer Research Project
Current Status: Research staff Beth Israel Deaconess medical center, Boston, MA
- Taylor, Delores (Gastrointestinal Pathology Fellow) 1997 – 1998
Description: Palo Alto, CA
Outcomes: 1 year GI fellowship
Current Status: Deceased
- Zlobec, Inti (Pathology Masters, PhD Student) 2001 – 2006
Description: McGill University Department of Pathology, Montreal, Quebec, Canada
Outcomes: Thesis
Current Status: Professor of Pathology; University of Bern, Switzerland

Hollman, Annette (Post-doctoral Research Fellow)

2004 – 2005

Description: 1 year part-time pathology training

Outcomes: Research fellow at McGill

Current Status: Unknown

Julie, Julie (AAAS Post-Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Program Director at NCI Center for Global Health

Sherilyn Sawyer (AAAS Post-Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Scientific Director, Biomarker Cohorts Laboratory and Respository at Harvard/Brigham and Women's Hospital, Harvard Medical School

Nicole Lockhart (AAAS Post-Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Program Director, National Human Genome Research Institute

Kimberley Myers (Presidential Management Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Manager, Deloitte Consulting, Washington, DC

David Litwack (AAAS Post-Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Staff CDRH, Food and Drug Administration

Mark Lim (AAAS Post Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Innovation Program Manager at Faster Cures, Washinton, DC

Tony Dickherber (AAAS Post Doctoral Fellow)

Description: Fellowship at NCI, OBBR

Outcome: 2 year fellowship completed, assumed staff position at NCI in OBBR

Current: Biotechnology Program Analyst/Manager, NCI

Honors and Awards for Education

Outstanding Medical Educator of the Year – University of Massachusetts Medical School 1982

Outstanding Medical Educator of the Year – University of Massachusetts Medical School 1983

Faculty Prize for Excellence in Teaching – Harvard Medical School 1990

Faculty Prize for Excellence in Teaching – Harvard Medical School 1999

INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS AND OTHER ACTIVITIES

University of Massachusetts

Hospital Executive Committee

Member

1983 - 1984

Institutional Cancer Committee

Member

1983 – 1984

Medical School

Curriculum Design

Year II HMS Human System Planning committee

Member

1993 – 1996

Massachusetts General Hospital

Committee on Research
 Subcommittee on Animal Care
 Member 1990 – 1992

Shriners Burns Hospital

Medical Executive Committee
 Member
 Joint Venture Program in Gastrointestinal Cancer
 Scientific Research Committee
 Member 1996 – 2000
 Point of Care Testing Committee
 Member 1996 – 2000
 Medical Executive Committee
 Officer-at-Large 1999 – 2000

McGill University Health Center

Council of Basic Science Chairs
 Member 2000 – 2005
 Council of Clinical Chairs
 Member 2000 – 2005
 Executive Planning Committee
 Member 2000 – 2005
 Medical Advisory Council
 Member 2000 – 2005
 Research Institute Management Committee
 Member 2000 – 2005
 University Research Ethics Committee
 Member 2000 – 2005
 Medical School
 Student Promotions Committee
 Member 2000 – 2005
 McGill University Sponsored Forum
 Annual Mini Medical School Public Forum
 Lecturer 2001 – 2005

PRESENTATIONS**National**

Cultured Epithelial Grafts 1991
 Annual Medical Research Forum on Wound Care
 San Francisco, CA
 Cultured Epithelial Grafts 1992
 The Graduate Hospital Annual Symposium on Wound Care
 Philadelphia, PA
 Panel of Experts 1993 – 1995
 Specialty Conference in Gastrointestinal Pathology
 Annual Symposium of the IAP/USCAP
 The Clinical and Biological Impact of Cultured Keratinocyte Grafts on
 the Wound Environment 1996
 Annual Symposium on Advance Wound Care: Medical Research
 Forum on Wound Repair
 Atlanta, GA

Epidermal Cell Cultures – technique, Production and Pathology; Historical Perspective American Burn Association Course: Wound Healing in the Burn Patient New York, NY	1997
Cystic Tumors of the Pancreas 7 th Annual John P. Sullivan Lecture in Anatomic Pathology Baystate Medical Center Springfield, MA	1998
Solid Tumors Prognostic Factors: Which, What, and So what? A Summary NI40 CAP Conference XXXV ASCP/CAP Fall Meeting New Orleans, LA	1999
Is There Life Beyond Histopathology NIH/NCI State of the Science Colorectal Conference	2000
Cystic Tumors of the Pancreas American Society of Clinical Pathology National Audio-conference	2000
Reporting on Cancer Specimens: A Self-help Guide for Improving Quality and Simplifying Practice College of American Pathologists/American Society of clinical Pathologists	2000
Controversies in Adjuvant and Local therapies of Rectal Cancer American Society for Clinical Oncology Annual Meeting, Education Sessions San Francisco, CA	2001
Critical Issues in the Management of Colorectal Cancer ASCO Educational Symposium Chicago, IL	2003
Pathologic Evaluation of GI Tumors ASTRO Presidential Categorical Course Keynote Salt Lake City, UT	2003
Pathology and Multidisciplinary Care: Current Status and Future Directions 45 th Annual Clinical Conference, MD Anderson Cancer Center Houston, TX	2004
The Multidisciplinary Disease Team in Cancer Panel Member American College of Surgeons Annual Meeting New Orleans, LA	2004
Regional	
Cystic Tumors of the Pancreas Quebec Association of Pathology Montreal, Quebec, Canada	2001

INVITED PRESENTATIONS AND VISITING PROFESSORSHIPS

Invited Presentations

Crisis in the Lab: Animals in Medical Research Guest Speaker The Ford Hall Forum Boston, MA	1987
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Strengthening Public Understanding of Biomedical Research Guest Speaker F.A.S.E.B. Public Affairs Symposium Washington, DC	1987
N.I.H. Symposium on the Use of Animals in Medical Research Guest Speaker U.S. House of Representative Washington, DC	1988
DNA Measurements & Other Markers & Probes as Diagnostic Factors in Human Solid Tumors Guest Lecturer Roswell Park Memorial Institute & E.I du Pont de Nemours & Co. Wilmington, DE	1988
Cultured Epithelial Grafts Guest Lecturer Convention on Biotechnologies in Medicine Turin, Italy	1988
Cultured Epithelial Grafts Faculty Lecturer International Symposium on Wound Healing Management Society for Burn Injuries of the W.H.O. Chicago, IL	1988
The Biology of Cultured Epithelial Grafts Guest Lecturer Department of Cellular and Developmental Biology German National Cancer Institute Heidelberg, Germany	1988
Cultured Epithelium Guest Lecturer Department of Dermatology University of Munich Medical School Munich, Germany	1988
Cultured Epithelial Grafts Faculty Lecturer International Symposium on Wound Healing Management International Society for Burn Injuries of the W.H.O. San Francisco, CA	1989
Harvard Symposium on Cultured Epithelial Autografts Faculty Lecturer New Orleans, LA	1989
Chairman, Proffered Papers GI Pathology, IAP Boston, MA	1990
Chairman, Proffered Papers Wound Healing Society San Antonio, TX	1990
Cultured Epithelial Grafts Faculty Lecturer Keystone Symposium: Molecular and Cellular Biology of Wound Repair Dillon, CO	1991
Cultured Epithelial Grafts Invited Lecturer 34 th World Congress of Surgery of the ISS/SIC 12 th World Congress of CICD Stockholm, Sweden	1991

Cultured Epithelial Grafts International Symposium on Current Concepts in Pediatric Burn Care Zurich, Switzerland	1991
Cultured Epithelial Grafts IV Congress of the European Burn Association Barcelona, Spain	1991
Cultured Epithelial Grafts Faculty Lecturer 18 th World Congress of Dermatology New York, NY	1992
Cultured Epithelial Grafts Faculty Lecturer International Symposium on Wound Healing Management International Society for Burn Injuries of the W.H.O. New Orleans, LA	1992
Cultured Epithelial Grafts Internation Burn Conference, Phoenix Society San Antonio, TX	1992
Use of Animals in Medical Research Guest Speaker A.M.A. Animals in Research Workshop Boston, MA	1992
Cultured Epithelial Grafts Faculty Lecturer Workshop on the Pathogenesis of Chronic Wound Healing National Institutes of Health Bethesda, MD	1993
Basement Membrane Regeneration in Wound Healing Guest Lecturer Collaborative Couse on Biology of the Skin Departments of Dermatology – Brown University, Boston University, Tufts University and Harvard University Schools of Medicine Boston, MA	1993
Cultured Epithelial Grafts Keystone Symposium on Progress in Basic Research of Wound Repair and its Application to Clinical Management of Problematic Wounds Breckenridge, CO	1993
Epithelial Differentiation Faculty Lecturer Gordon Conference on Wound Repair New London, NH	1993
The Biology of Cultured Epithelium Guest Speaker Department of Pathology, Bristol Royal Infirmary Bristol, United Kingdom	1993
Clinical Application of Cultured Epithelium Guest Speaker Division of Plastic Surgery, Department of Surgery Southmead Hospital Bristol, United Kingdom	1993
The Biology of Cultured Epithelium Guest Lecturer Epithelial Biology Group Imperial Cancer Research Fund London, United Kingdom	1993

The biology of Cultured Epithelium Guest Lecturer Department of Anatomy, Karolinka Institute Stockholm, Sweden	1993
Symposium of Plastic and burns Surgery Guest Lecturer and Round Table Moderator Joint Meeting of Czech and Italian Societies of Plastic Surgery Brno, Czech Republic	1994
Applied Skin Culture meeting Guest Lecturer and Round Table Moderator European Tissue Culture Society Faculty of Medicine, Marsaryk University Brno, Czech Republic	1994
The Biology of Cultured Epithelium Keynote Speaker Symposium on Cultured Skin and Wound Healing Tokyo, Japan	1994
The Biology of Cultured Epithelium Guest Lecturer Kitasako University Hospital and School of Medicine Kanagawa, Japan	1994
The Biology of Cultured Epithelium Guest Speaker Kinki University Hospital and School of Medicine Osaka, Japan	1994
The Biology of Cultured Epithelium Guest Lecturer British Society for Cell Biology Conference on Epithelial Cell Biology Oxford, United Kingdom	1994
Cultured Epithelial Autografts: Skin Regeneration and Wound Healing 11 ^o Congresso Nazionale, Società Italiana Ustioni Bari, Italy	1994
What's New in Wound Healing Keynote Speaker 11 th Congress of the International Confederation for Plastic, Reconstructive, and Aesthetic Surgery Yokohama, Japan	1995
Wound Healing and Tissue Culture Guest Speaker 11 th Congress of the International Confederation for Plastic, Reconstructive, and Aesthetic Surgery Yokohama, Japan	1995
Cultured Epithelial Autografts: Skin Regeneration and Wound Healing Keynote Speaker Kanazawa University Medical School Kanazawa, Japan	1995
Clinical Utility and Wound Healing Potential of Cultured Skin Grafts Keynote Speaker Symposium der Deutsch-Österreichischen Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin Mannheim, Germany	1995
Update on Gastritis and Gastric Cancer Invited Speaker University of Vienna Medical School Vienna, Austria	1995

The Clinical and Biological Behavior of Cultured Epithelial Grafts in the Treatment of Wounds Invited Speaker University of Vienna Vienna, Austria	1995
Keratinocyte Autografts and Allografts for Burns Faculty Lecturer and Plenary Session Chairperson Keystone Symposium on Wound repair in Context Taos, New Mexico	1996
Keratinocyte Autografts and Allografts for Wound Treatment Faculty Lecturer The Art of Science of Wound Management (Symposium) Tucson, AZ	1996
Cultured Keratinocytes as Permanent Skin Grafts and Biologic Wound Dressings Faculty Lecturer Symposium for Advanced Wound Care/Medical Research Forum New Orleans, LA	1997
Gastroenterology in the Centennial Year-And Beyond Faculty Lecturer An American Gastroenterological Association Postgraduate Course Lecture Entitled: Gastritis; Classification and Diagnosis Washington, DC	1997
The Use of Artificial Dermis in Combination with Cultured Epithelial Grafts in the Treatment of Burn Wounds International Symposium, Current Therapy in Burns Bydgoszcz, Poland	1997
Update on the Long-term Outcome of Cultured Epithelial Grafts with 13 Years of Follow-Up International Symposium, Current Therapy in Burns Bydgoszcz, Poland	1997
Histologic Classification of Gastritis Faculty Lecturer Joint Symposium European Association of Gastroenterology, Russian Association of Gastroenterology, and American Gastroenterology Association Moscow, Russia	1997
Update on the Genetics of Colon Cancer Faculty Lecturer Joint Symposium European Association of Gastroenterology, Russian Association of Gastroenterology, and American Gastroenterology Association Moscow, Russia	1997
Unusual Forms of Colitis Faculty Lecturer Joint Symposium European Association of Gastroenterology, Russian Association of Gastroenterology, and American Gastroenterology Association Moscow, Russia	1997
Differentiation Factors in Colorectal Carcinoma Presenter and Forum Leader American Joint Commission on Cancer Prognostic Factors Consensus Conference Tampa, FL	1998

Isolation, Growth and Standardization of Skin Cells for Use in Tissue Engineered Applications Keynote Speaker U.S. Food and Drug Administration Course on Tissue Engineering Rockville, MD	1998
Cultured Epithelial Grafts: Past, Present, and Future Keynote Speaker British Burn Association Meeting East Grinstead, United Kingdom	1999
The Importance of Special Stains in Liver Pathology Keynote Speaker Massachusetts Society for Histotechnology Boston, MA	1999
Standardized Reporting for Cancer Specimens Keynote Speaker National Cancer Registrars Association Anniversary Conference Dallas, TX	1999
Cystic Tumors of the Pancreas: Diagnosis, Differential Diagnosis, and Diagnostic Pitfalls Keynote Speaker New England Society of Pathologists Evening Slide Seminar Presentation: Pancreatic Tumors	2000
Is There Life Beyond Pathologic Staging? Panel Leader Member: Genetics Breakout Group NCI/NIH GI Cancer: State of the Science Symposium Washington, DC	2000
External Reviewer Quinquennial Review Imperial Cancer Research Fund London, United Kingdom	2001
Predicting Risk of Recurrence in Rectal Cancer: Tissue-Based Prognostic Factors Educational Symposium: Controversies in Rectal Cancer American Society of Clinical Oncology San Francisco, CA	2001
How Will We Be Treating Cancer Differently in 5 Years – Educational Symposium American Society for Therapeutic Radiation and Oncology New Orleans, LA	2002
Tissue Banking: Learning from North America Speaker and Panelist National Cancer Research Institute of the United Kingdom London, United Kingdom	2002
The Power of Pathology in Colorectal Cancer Macgregor Lecture Alberta, Canada	2003
The Clinical Significance of Pathologic Analysis of Colon Cancer: From Margins to Molecules Plenary Session Speaker The 22 nd World Congress of Pathology and Laboratory Medicine Busan, Korea	2003

Pathologic Predictors of Outcome Educational Symposium: Loco-regional Management of Colorectal Cancer American Society for Clinical Oncology Chicago, IL	2003
Pathologist Evaluation of GI Tumors ASTRO President's Course: American Society for Therapeutic Radiation and Oncology Salt Lake City, UT	2003
Update on Colorectal Cancer Keynote Address Dartmouth Pathology Reviews Concord, NH	2004
Pathology and Multidisciplinary Medicine; Current Status and Future Medicine Annual Clinical Conference, MD Anderson Cancer Center Houston, TX	2004
Pathology Update Course American Society for Clinical Pathology Montreal, Quebec, Canada	2004
The Opinion of the Pathologist 2004 VI International Symposium on Sphincter Saving Surgery for Rectal Cancer Milan, Italy	2004
Biorepositories of the Future Keynote Address International Society for Biological and Environmental Repositories ISBER Annual Meeting 2006 Bethesda, MD	2006
The Future of Pathology Ramzi S. Contran Memorial Lecture New England Society of Pathology and Harvard Medical School Boston, MA	2006
Nigro Lecture in Colorectal Surgery Annual Meeting of the American Society of Colon and Rectal Surgeons St. Louis, MO	2007
AJCC 50 th Anniversary Keynote Address Annual Meeting of the American Joint Committee on Cancer Baltimore, MD	2009
The Future of Cancer Medicine: Keynote Address Annual Meeting Commission on Cancer Chicago, IL	2010
US-China Workshop on Developing Common Standards for Biorepositories and Biospecimen Research Tianjin, China	2011

Biobanking Lecture Series Featured Speaker University of Bern Bern, Switzerland	2012
Colon Cancer Association of Canada Optimizing Biobanking for Colorectal Cancer Research and Precision Medicine Montreal, Canada	2013
Keynote Address: Technology Development, Disruptive Innovation and the Future of Medicine American Radium Society Annual Meeting St. Thomas, USVI	2014
Keynote Address: The National Biomarker Development Alliance: Advancing Biomarkers for Precision Medicine Beginning with Biospecimens Leaders in Biobanking Congress 2014 Seattle, WA	2014
Keynote Address: The Right Stuff for Translational Research: Garbage In, Garbage Out Embracing Change: Enhancing Clinical Research Practices Phoenix, AZ	2014
The Commission on Cancer Lecture, Keynote Oncology Lecture: Challenge, Convergence, Complexity and Change in Cancer Care: Are We Ready? American College of Surgeons Annual Clinical Congress San Francisco, CA	2014
Plenary Keynote Lecture: UKRO National Radiation and Oncology Meeting 2015 Change, Challenge, and Complexity: Disruptive Innovation and the Future of Oncology Coventry, UK	2015
Plenary Keynote Lecture: The Top 5 List: Finding and Fixing the Most Important Specimen Compromisers for Biomarker Measurement Biomarkers and Diagnostics World Congress 2016 Philadelphia, PA	2016
Plenary Keynote Speaker: Specimens and Standards: Banking on Gold for Biomarker Development in Neurofibromatosis 2016 Neurofibromatosis Conference Austin, TX	2016
Plenary Keynote Speaker: Complexities of Pathological Assessment: Serrated Polyps/Adenomas ASCO GI Symposium 2016 San Francisco, CA	2016
Keynote Speaker: Mini-med School: Oncology 101 AACR Scientists and Survivors Program AACR 2016 New Orleans, LA	2016
Keynote Speaker Annual Meeting American Association of Pathology Assistants San Diego, CA	2016

Keynote Speaker Banbury Conference Future of Pathology Cold Spring Harbor, NY	2016
Keynote Speaker Liquid Biopsy Summit San Francisco, CA	2017
Keynote Speaker Individumed 15 th Anniversary Hamburg, Germany	2017
Keynote Speaker Commission on Cancer Annual Cancer Programs Meeting Chicago, IL	2017
National Academies of Science, Engineering and Medicine Speaker, Return of Research Results Workshop Washington, DC	2017
Keynote Speaker: International Society of Extracellular Vesicles (ISEV) Annual Meeting Birmingham, UK	2017
Visiting Professorships	
Smith and Nephew Lectureship and Visiting Professor University of Manchester Department of Cell and Structural Biology Manchester, United Kingdom	1993
Department of Pathology University Hospital and Medical Center State University of New York At Stony Brook Stony Brook, NY	1997
Department of Pathology University of Pittsburgh Medical Center Pittsburgh, PA	2011
University of Dundee Dundee, Scotland	2014
Memorial Sloan Kettering Cancer Center Department of Radiation Oncology New York, NY	2014
Brindley Visiting Professorship University of Texas at Galveston	2017

CLINICAL PRACTICE, INTERESTS, AND ACCOMPLISHMENTS

C. SHORT REPORT OF CLINICAL ACTIVITIES

1. Clinical Practice (Service Coverage; Case Load and Complexity)

Massachusetts General Hospital:

- Practice limited to gastrointestinal pathology, including pancreas, liver, and biliary tree: diagnostic biopsies and resection specimens in a teaching hospital setting
- Full-time administration and senior pathology consultant of the MGH Gastrointestinal Pathology Service. This service has a total volume of about 6,000 cases/yr. Most cases are comprised of multiple specimens; therefore, the total diagnostic volume is approximately 11,000 specimens (3,000 resection specimens and 8,000 biopsies).
- 75% FTE surgical pathology practice with primary coverage of Gastrointestinal Pathology Diagnostic Service approximately 25 weeks/yr and diagnostic evaluation of about 2,500 cases

- Secondary coverage of Gastrointestinal Pathology Service with direct supervision of all diagnostic service performed by senior residents and fellows in training on the Gastrointestinal Pathology Service, approximately 8-12 weeks/yr (over and above FTE)
- Private consultation service in Gastrointestinal Pathology of about 100 cases/yr
- Full-time consultation for Gastrointestinal Pathology to the Autopsy Service
- High degree of complexity for all consult cases, the majority of diagnostic biopsies, and 50% of resections for malignancy

Shriners Burns Hospital

- Full-time administration of the Anatomic and Clinical Pathology Services and senior pathology consultant
- Sign out all surgical pathology cases excluding pigmented skin lesions (which are read by the MGH Dermatopathology Service): approximately 100 cases/yr
- Complexity: requirement for expertise in wound pathology and pathophysiology

McGill University Health Center

- Full-time administration of the Anatomic and Clinical Pathology Services and senior pathology consultant
- 20% FTE surgical pathology practice with primary coverage of Gastrointestinal Pathology Diagnostic Service approximately 40 weeks/yr and diagnostic evaluation of about 2,000 cases
- High degree of complexity for all consult cases, the majority of diagnostic biopsies, and 50% of resections for malignancy

2. Clinical Contributions: Care Delivery

- Reorganization of Gastrointestinal Pathology Diagnostic Service with establishment of practice guidelines for sign-out of gastrointestinal tumor specimens at the MGH to assure completeness and uniformity of reporting with use of:
 - Internationally accepted nomenclature for tumors
 - Internationally accepted pathologic staging of tumors
 - Commentary on all gross and histopathologic features of proven independent prognostic significant in specific gastrointestinal malignancies
- Provision of full-time consultation service in gastrointestinal pathology for medical and surgical subspecialties dealing with gastrointestinal disease

RESEARCH INTERESTS

A. REPORT OF RESEARCH

1. Major Research Interests

- Epithelial differentiation during wound healing and control of body site-specific differentiation
- Changes of expression of cytokine and cytokine receptor genes in wound healing
- Molecular mechanisms in cellular aging
- Molecular mechanisms of neoplastic transformation in the pancreas
- Histopathologic and molecular prognostic and predictive factors in colon cancer

2. Short Description of Research

a. Basic and Clinical Research in Epithelial Biology and Wound Healing

Cultured human keratinocytes, either used as permanent grafts or as biologically active wound dressings, have been studied in patients and animal models using histologic, ultrastructural, immunohistochemical, biochemical and molecular biological techniques.

Cultured autografts have served as model systems for the investigation of such biological processes as anchoring fibril, basal lamina, and hemidesmosome formation, epithelial hyperproliferation and differentiation during wound healing, epidermal site-specific phenotype expression, neuroendocrine differentiation in squamous epithelial, epithelial-stromal interactions, Langerhans' cell repopulation of epidermis, distribution and population density of HIV-infected Langerhans' cell in skin following infection, cellular aging induced by culture vs. chronological aging, and melanocyte behavior during wound healing.

The wound healing promotional effects of cultured allografts have been studied in *in vitro* models, animal models, and in treated patients. Endogenous epithelial cytokine production by the grafts has been

studied on the levels of both gene expression and protein production and compared to topical applications of individual growth factors and growth factor combinations.

b. Clinical Research in Gastrointestinal Malignancy

Clinicopathologic correlative studies using histologic, immunohistochemical, and molecular biological techniques have focused primarily on colorectal cancer and pancreatic cancer and their respective precursor lesions to elucidate pathological features of either diagnostic or prognostic value in these diseases. Factors of interest have included proliferation markers, differentiation features, oncogene mutations, blood group antigen and mucin expression, and vascularity.

3. Research Funding Information:

Epithelial Biology and Wound Healing

- | | |
|---------|--|
| 1985 | P.I.: "Cultured Epithelial Autografts for Burn Wound Treatment"
Dorothea Haus Ross Foundation Research Grant |
| 1985 | P.I.: "Cultured Skin Grafts"
Wellington Fund, Harvard University |
| 1985 | P.I.: "Morphological Study of Cultured Epithelial Grafts"
M.G.H. B.R.S.G. Grant |
| 1986-91 | P.I.: "Morphological Study of Cultured Human Epithelial Grafts"
N.I.H. Research Grant RO1 GM35242 |
| 1986-88 | P.I.: "Cultured Epithelial Grafts: Skin Regeneration and Wound Healing"
Shriners Hospitals Research Grant #15891 |
| 1988 | P.I.: "Growth Factors and Cultured Autografts for Wound Treatment"
P.D.G.F. Inc. Research Grant |
| 1989-91 | P.I.: "Cultured Epithelial Grafts: Skin Regeneration and Wound Healing"
Continuation Shriners Hospitals Research Grant #15891 |
| 1989 | P.I.: "Cultured Epithelial Autografts and Wound Treatment"
M.G.H. B.R.S.G. Grant |
| 1990-93 | P.I.: "Growth Factors, Adhesion Molecules and Cultured Epithelial Grafts in Skin Regeneration and Wound Healing"
Shriners Hospitals Research Grant #15880 |
| 1992 | P.I.: "Priming of Wound Beds for Cultured Epithelial Autografting using Basic Fibroblast Growth Factor"
Synergen, Inc., Research Grant |
| 1992-96 | P.I.: "Cultured Epithelial Autografting to Allodermis-Prepared Wound Beds"
BioSurface Technology Inc., Research Grant |
| 1993-96 | P.I.: "Cytokine Gene Expression in Cultured Epithelial Grafts Following Transplantation"
BioSurface Technology Inc., Research Grant |

Gastrointestinal Malignancy

- | | |
|-----------|---|
| 1988-91 | P.I.: "Tumor Markers for Premalignant Gastrointestinal Disease"
E. I. DuPont Company Research Grant |
| 1991-2000 | Tissue Core Co-Director (with Dr. Daniel Podolsky)
N.I.D.D.K. Center Grant DK43351
M.G.H. Center for Inflammatory Bowel Disease |
| 1994-96 | Co-P.I.: "Anti-TNF Treatment for Inflammatory Bowel Disease" |

A Multi-Center Phase II Trial
 P.I.: Daniel Podolsky, M.D.
 Centocor Corp., Research Grant

- 1994-96 Pathology Consultant: "Determination of CD44 Alternative Splicing Patterns in Human Colorectal Carcinomas and Metastases"
 P.I.: Kenneth Tanabe, M.D.
 N.I.H. Grant 1R29 CA64454-01

- 1998- Co-P.I.: "Randomized Trial of Optimal Surgery and Chemotherapy with and without Postoperative Radiation Therapy in the Treatment of Patients Undergoing Low Anterior Resection for Distal Rectal Transmural Node Negative Cancer"
 P.I.: Alfred Cohen, M.D.
 The American College of Surgeons Oncology Trials Group [AcoSOG]

- 1998 Study Pathologist: "Phase III Intergroup Trial of Irinotecan (CPT-11) plus Fluoruracil/Leucovorin (5FU/LV) versus " Fluoruracil/Leucovorin Alone after Curative Resection for Patients with Stage III or High Risk Stage II Colon Cancer"
 PI: Leonard Saltz, M.D.
 Intergroup Protocol 89803

- 1998 Study Pathologist and Correlative Science Investigator: "Phase III Randomized Study of Adjuvant Immunotherapy with Monoclonal Antibody 17-1A versus No Adjuvant Therapy following Resection for Stage II Adenocarcinoma of the Colon"
 PI: Thomas Colacchio, M.D.
 CALGB Protocol C9581 (ECOG C9581/SWOG C9581/NCCTG C9581)
 PI of Correlative Science Study: Histopathologic Markers of Outcome in Stage II Colon Cancer
 Funding from Glaxo Wellcome: \$13,282 (PI: Compton) and
 NIH RO1 "Molecular Markers of Prognosis in Colon Cancer." (PI: Robert Warren, UCSF; Compton collaborator) \$53,128

- 1999 Study Pathologist: "Sharp Mesorectal Excision in Patients with Transmural Rectal Cancer"
 P.I.: Alfred Cohen, M.D.
 The American College of Surgeons Oncology Trials Group [AcoSOG]

- 1999 Study Pathologist: "The Utility of Molecular Markers in the Detection of Subclinical Colon Cancer and the Response to Adjuvant Therapy"
 P.Is.: Drs. David Ota, Anton Bilchik, Robert Beart
 The American College of Surgeons Oncology Trials Group [AcoSOG]

- 1999 Study Pathologist and Correlative Science Investigator: "A Prospective Study on the Prognostic Significance of Microsatellite Instability in Early Age-of-Onset Colorectal Cancer"
 P.I.: Jose Guillem, M.D.
 The American College of Surgeons Oncology Trials Group [AcoSOG]

- 2000 Study Pathologist and Correlative Science Investigator: "Tumor Replication error (RER) Status and Outcome in a Colon Cancer Adjuvant Chemotherapy Trial"
 P.I.: Dr. Monica Bertagnolli
 CALGB Protocol 9865
 NCI (CALGB Chairman's Fund) \$15,416

- 2002 Carolyn Compton, M.D., Ph.D.: "Laboratory for Translational Research in Colorectal Cancer"
 Canadian Foundation for Innovation

PATENTS

Method for Detecting Carcinomatous and Precarcinomatous Colo-Rectal Disease	4,912,031	1987
Cultured Cell Seeded Collagen-Glycosaminoglycan Matrix Tissue Replacement	08/229,732	1997

Method of Skin regeneration Using a Collagen-Glycosaminoglycan Matrix and Cultured Epithelial Autograft	5,716,411	1998
Newton Oncology: Shared Decision Support Tool for Cancer		2016

OTHER (Leadership Roles Related to Teaching)

Introductory Lecture and Ph.D. Thesis Opponent Candidate: Gunnar Kratz Thesis Title: "In Vitro Studies on Keratinocyte Derived Growth Factors in Cell Proliferation and Re-epithelialization of Wounds" Karolinska Institute Stockholm, Sweden		1993
Ph.D. Thesis Examiner Candidate: James Chen Thesis Title: "P53 and kRas Mutations of Dysplastic Colonic Mucosa in Ulcerative Colitis and Chronic Schistosomiasis" State University of New York at Stony Brook Stony Brook, NY		1995
Chair, ASU PhD Thesis Committee: Eric Woolf		2017 - present
Faculty Advisor: ASU Chapter, American Women's Medical Association		2015 – present
Faculty Advisor: ASU Chapter, Feed My Starving Children		2014 – present
Faculty Advisor: ASU Chapter, Stand Up To Cancer		2017 - present

BIBLIOGRAPHY**Peer-reviewed Articles**

1. Fanta CH, Compton CC. Microscopic Tumor Emboli to the Lungs: A Hidden Cause of Dyspnea and Pulmonary Hypertension. *Thorax* 1980; 35:794-5.
2. Compton CC, Von Lichtenberg F. Necrotizing Granulomatous Gastritis and Gastric Perforation of Unknown Etiology: A First Case Report. *J Clin Gastroenterol* 1983; 5:59-65.
3. Gallico GG, O'Connor NE, Compton CC, Kehinde O, Green H. Permanent Coverage of Large Burn Wounds with Autologous Cultured Human Epithelium. *N Engl J Med* 1984; 311: 448-51.
4. Raptopoulos V, Fabian T, Silva W, D'Orsi C, Krolkowski J, Compton CC, Doherty P, Smith E. The Effect of Time and Cholecystectomy on Experimental Biliary Tree Dilatation: A Multi-Imaging Evaluation. *Invest Radiol* 1985; 20:276-86.
5. Compton CC, Raviola E. An Ultrastructural Study on Sinus Endothelial Cells of Lymph Nodes and Their Relationship to Sinus Histiocytes. *Anat Rec* 1985; 212:408-23.
6. Raptopoulos V, Compton CC, Doherty P, Smith EH, D'Orsi CJ, Patwardhan NA, Goldberg R. Chronic Acalculous Gallbladder Disease: Multi-imaging Evaluation with Clinical-Pathologic Correlation. *AJR* 1986; 147:721-4.
7. Ansell JE, Clark W, Compton CC. Fatal Reactions Associated with Intravenous Heparin. *Drug Intell Clin Pharm* 1986; 20:74-5.
8. Vandersalm T, Okike ON, Marsicano T, Compton CC. Prevention of Postoperative Pericardial Adhesions in the Cardiac Surgical Patient. *Arch Surg* 1986; 121:462-7.
9. Compton CC, Wyatt R, Konugres A, Ehrenthal D, Durda P. Immunohistochemical Studies of Blood Group Substance H in Colorectal Tumors Using a Monoclonal Antibody. *Cancer* 1987; 59:118-27.
10. Ehrenthal D, Hager E, Griffin T, Compton C. Familial Pancreatic Carcinoma in Three Generations: A Case Report and Review of the Literature. *Cancer* 1987; 59:1661-4.

11. Bacon BR, Stark DD, Park CH, Saini S, Groman EV, Hahn P, Compton CC, Ferrucci JT. Ferrite Particles: A New Magnetic Resonance Imaging Contrast Agent. Lack of Acute or Chronic Hepatotoxicity after Intravenous Administration. *J Lab Clin Med* 1987; 110:164-71.
12. Elizondo G, Weissleder R, Stark DD, Todd LE, Compton CC, Wittenberg J, Ferrucci JT. Amebic Liver Abscess: Diagnosis and Treatment Evaluation by MRI. *Radiology* 1987; 165:795-800.
13. Weissleder R, Stark DD, Compton CC, Wittenberg J, Ferrucci JT. Ferrite-Enhanced MR Imaging of Hepatic Lymphoma: An Experimental Study in Rats. *AJR* 1987; 149:1161-5.
14. Weissleder R, Stark DD, Rummeny E, Compton CC, Ferrucci JT. Splenic Lymphoma: Ferrite-Enhanced MR Imaging in Rats. *Radiology* 1988; 166:423-30.
15. Weissleder R, Stark DD, Compton CC, Simeone JF, Ferrucci JT. Cholecystitis: Diagnosis by MR Imaging. *Magn Reson Imaging* 1988; 6:345-8.
16. Weissleder R, Saini S, Stark DD, Elizondo G, Compton CC, Wittenberg J, Ferrucci JT. Pyogenic Liver Abscess: Contrast Enhanced MR Imaging. *AJR* 1988; 150:115-20.
17. Parsonnet J, Welch K, Compton C, Strauss R, Wang T, Kelsey P, Ferraro MJ. Simple Microbiologic Diagnosis of *Campylobacter Pylori*. *J Clin Microbiol* 1988; 26:948-9.
18. Sundt T, Compton CC, Malt RA. Ménétrier's Disease: A Trivalent Gastropathy. *Ann Surg* 1988; 208:694-701.
19. Rummeny E, Weissleder R, Stark DD, Saini S, Compton CC, Bennett W, Hahn PF, Wittenberg J, Malt RA, Ferrucci JT. Primary Liver Tumors: Diagnosis by MRI. *AJR* 1988; 152:63-72.
20. Weissleder R, Stark DD, Engelstad BL, Bacon B, Compton CC, Jacobs P, Lewis J. Superparamagnetic Iron Oxide: Pharmacokinetics and Toxicity. *AJR* 1988; 152:167-73.
21. Compton CC, Gill JM, Bradford DA, Regauer S, Gallico GG, O'Connor NE. Skin Regenerated from Cultured Epithelial Autografts on Full-Thickness Burn Wounds from 6 Days to 5 Years After Grafting. A Light, Electron Microscopic and Immunohistochemical Study. *Lab Invest* 1989; 60:600-12.
22. Gallico GG, O'Connor NE, Compton CC, Remensnyder JP, Kehinde O, Green H. Cultured Epithelial Autografts for Giant Congenital Nevi. *J Plast Reconstr Surg* 1989; 84:1-9.
23. Willett CG, Tepper JE, Wood WC, Donnelly S, Shellito PC, Rodkey G, Stracher MA, Compton CC. Patterns of Failure Following Local Excision and Post-Operative Radiation Therapy for Invasive Rectal Adenocarcinoma. *J Clin Oncol* 1989; 7:1003-8.
24. Rummeny E, Saini S, Wittenberg J, Compton C, Hahn P, Bennett W, Malt R, Weissleder R, Ferrucci JT. Magnetic Resonance Imaging of Liver Neoplasms. *AJR* 1989; 152:493-9.
25. Weissleder R, Stark DD, Compton CC, Ferrucci JT. MRI of Hepatic Lymphoma: Morphologic Features. *Mag Res Imaging* 1989; 6:675-81.
26. Simeone JF, Brink JA, Mueller PR, Compton CC, Hahn PF, Saini S, Silverman SG, Tung G, Ferrucci JT. The Sonographic Diagnosis of Acute Gangrenous Cholecystitis: The Importance of the Murphy Sign. *AJR* 1989; 152:289-90.
27. Rummeny E, Weissleder R, Sironi S, Stark DD, Compton CC, Hahn PF, Saini S, Wittenberg J, Ferrucci JT. Central Scars in Primary Liver Tumors: MR Features, Specificity, and Pathological Correlation. *Radiology* 1989; 171:323-6.
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31. Rummeny E, Saini S, Stark DD, Weissleder R, Compton CC, Ferrucci JT. Detection of Hepatic Metastases with MR Imaging: Spin-Echo vs. Phase-Contrast Pulse Sequences at 0.6T. *AJR* 1989; 153:1207-11.
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**Abstracts: Over 350
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