

**RONALD S. WEINSTEIN, M.D.**  
**CURRICULUM VITAE**

**UNDERGRADUATE EDUCATION:**

1956-1960 Union College (B.S.)

**MEDICAL EDUCATION:**

1960-1963 Albany Medical College

1962-1963 Massachusetts General Hospital (Post-Sophomore Research Fellow in Biophysics and Electron Microscopy, Department of Neurosurgery)

1963-1965 Tufts University School of Medicine (M.D.)

**POSTGRADUATE EDUCATION:**

1965-1966 Internship in Pathology, Massachusetts General Hospital, Boston

1966-1970 Residency in Pathology, Massachusetts General Hospital, Boston

**PROFESSIONAL AND ACADEMIC POSITIONS:**

1960-1962 Chemist, Department of Research Services, Woods Hole Marine Biological Laboratory, Woods Hole, Massachusetts (summers)

1966-1970 Head, Mixer Laboratory for Electron Microscopy, Neurosurgical Service, Massachusetts General Hospital (as a pathology resident)

1970-1972 Vice-Chairman of Pathology, Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Fairborn, Ohio

1972-1975 Associate Professor of Pathology, Tufts University School of Medicine

1975-1990 Harriet Blair Borland Professor and Chairman of Pathology, Rush University College of Medicine, Chicago, Illinois

1975-1990 Chairman and Senior Attending Physician, Department of Pathology, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois

1990-2007 Head, Department of Pathology, University of Arizona, College of Medicine, Tucson, Arizona

1990 - Professor, Department of Pathology, University of Arizona, College of Medicine, Tucson, Arizona

1990-2007 Chief of Pathology, University Medical Center, Tucson, Arizona

1996- Founding Director, Arizona Telemedicine Program

2004-2005 Founding Director, Four Corner's Telehealth Consortium

2005- Executive Director, Institute for Advanced Telemedicine and Telehealth (T-Health Institute), Phoenix, Arizona

2007- Adjunct, Department of Biomedical Informatics, School of Computing and Informatics, Arizona State University

2008- Professor, Division of Community Affairs, Environment and Policy, Mel and Enid Zuckerman College of Public Health, University of Arizona

2012- Professor, Department of Pharmacy, Practice and Science, College of Pharmacy, University of Arizona

## **FELLOWSHIPS:**

- 1959 Ford Foundation Special Fellow (Congressional Intern), U.S. Congress, Washington, D.C. (Summer, 1959)
- 1962-1963 Post-Sophomore Research Fellow, Massachusetts General Hospital
- 1965-1969 Clinical and Research Fellow, Massachusetts General Hospital
- 1965-1970 Teaching Fellow, Harvard Medical School

## **MILITARY SERVICE:**

1970-1972 Major (Medical Corp.), U.S. Air Force, Aerospace Medical Research Laboratory, Toxicology Division, (Vice Chair of Pathology), Wright-Patterson Air Force Base, Fairborn, Ohio. Coursework on computer and computer system design at the Air Force Institute of Technology (AFIT).

## **HONORS, AWARDS AND BOARD CERTIFICATIONS:**

- 1972 Diplomat, American Board of Pathologists
- 1975-1990 Harriet Blair Borland Professorship, Rush Medical College
- 1981-1983 International Councilor, International Academy of Pathology
- 1986- Fellow, College of American Pathologists
- 1989 USCAP Medal (for outstanding service), United States and Canadian Academy of Pathology
- 1998 F.K. Mostofi Distinguished Service Award, International Society for Urologic Pathology
- 1998 Manuscript-of- the-Year Award (co-author), *Telemedicine Journal*
- 1998 Outstanding Individual Achievement in Telemedicine Award, National TeleCon XVIII Conference
- 2001 President's Award, American Telemedicine Association  
(to the Arizona Telemedicine Program)
- 2002 Excellence in Distance Education for a Telemedicine Program, US Distance Learning Association (to the Arizona Telemedicine Program)
- 2003 Leopold Koss Medal, International Society of Urologic Pathology
- 2005 Wall Street Journal International Innovation Competition, Runner-up (to DMetrix, R. Weinstein, Co-Founder)
- 2005 100 R&D Award (to DMetrix, Inc, R. Weinstein, Co-Founder)
- 2006 Bioscience Start-up Company of the Year, Arizona BioIndustry Association (to DMetrix, Inc, R. Weinstein, Co-Founder)
- 2008 21<sup>st</sup> Century Achievement Award, International ComputerWorld Honors Program
- 2008 Leading Edge Innovator Award, University of Arizona
- 2008 President's Leadership Award, American Telemedicine Association
- 2009 Fellow (Charter Member), College of Fellows, American Telemedicine Association
- 2010 President Emeritus, American Telemedicine Association
- 2010 Eliphalet Nott Medal (Distinguished Alumnus Award), Union College

- (Schenectady, New York),
- 2010 Distinguished Service Award, Arizona Medical Association.
- 2010 “2010 Arizona Leader-of-the-Year in Public Policy” (Health Care Category), Arizona Capitol Times
- 2010 Lifetime Achievement Award, Association for Pathology Informatics
- 2011 Distinguished Service Award, Association of Pathology Chairs
- 2011 R4R Award for Transformations in Education, Association for American Medical Colleges, Council of Teaching Hospitals (to the Arizona Telemedicine Program)
- 2011 Senior Fellow, Association of Pathology Chairs
- 2012 Technology Innovator-of-the-Year, University of Arizona
- 2013 Hall of Fame Award, US Distance Learning Association

### **TEACHING AWARDS AND HONORS:**

- 1988 James A. Campbell, M.D., Alumni Service Award, Rush Medical College
- 1994 Basic Science Educator-of-the-Year, Univ. of Arizona College of Medicine
- 1995 Basic Science Educator-of-the-Year, Univ. of Arizona College of Medicine
- 1996 Basic Science Educator-of-the-Year, Univ. of Arizona College of Medicine
- 1997 Basic Science Educator-of-the Year, Lifetime Award, University of Arizona College of Medicine
- 1995 Furrow Award for Excellence in Innovations in Teaching, Univ. of Arizona College of Medicine
- 1996 Outstanding Teacher in the Basic Sciences, University of Arizona College of Medicine (Elected to hood Senior Class at graduation)
- 1997 Outstanding Teacher in the Basic Sciences, University of Arizona College of Medicine (Elected to hood Senior Class at graduation)
- 1998 Outstanding Teacher in the Basic Sciences, University of Arizona College of Medicine (Elected to hood Senior Class at graduation)
- 2002, 2007 Faculty Marshall at Graduation, Arizona College of Medicine
- 2008 Vernon and Virginia Furrow Award for “Excellence in Innovation in Teaching”, University of Arizona, College of Medicine

### **PRESIDENCIES/PROFESSIONAL ORGANIZATIONS**

- 1981-1982 President, Chicago Pathology Society
- 1988-1989 President, United States & Canadian Academy of Pathology
- 1995-1997 President, International Society for Urological Pathology
- 1998-1999 President, International Council of Societies of Pathology
- 2003-2004 President, American Telemedicine Association
- 2009- President Emeritus, American Telemedicine Association
- 2010-2011 President, Association for Pathology Informatics

### **ELECTIVE OFFICES/OTHER**

- 1990-1991 Secretary-Treasurer, Association of Pathology Chairs
- 1998-2000 Vice-President, Association of Pathology Chairs

2000-2001 Secretary, American Telemedicine Association  
2000-2001 Vice-President, Association for Pathology Informatics  
2001-2002 Vice-President, American Telemedicine Association

**MEMBERSHIPS/MEDICAL AND SCIENTIFIC SOCIETIES (with year of admission):**

1962 American Society for Cell Biology  
1974 International Academy of Pathology  
1974 American Association of Pathology  
1975 Chicago Pathology Society  
1975 Association of Pathology Chairmen  
1979 Red Cell Club  
1986 College of American Pathologists  
1989 Society for Basic Urological Research  
1991 Arizona Society of Pathologists  
1991 Tucson Society of Pathologists  
1991 International Society for Urologic Pathology  
1992 American Society for Investigative Pathology  
1992 International Academy for Telemedicine  
1994 Arthur Purdy Stout Society  
1995 American Association for Cancer Research  
1995 American Telemedicine Association  
1997 Arizona Medical Association  
1998 International Society for Telemedicine  
2001 Association for Pathology Informatics  
2013 HIMSS

**EDITORIAL ACTIVITIES:**

1979-1990 Consulting Editor, Ultrastructural Pathology  
1981-2004 Editorial Board, Human Pathology  
1980-1986 Editorial Board, Journal of Ultrastructure Research  
1983-1992 Associate Editor, Human Pathology  
1984-2008 Editorial Board, Laboratory Investigation  
1985-1991 Associate Editor, Advances in Pathology  
1986-1991 Editorial Board, Surgical Pathology  
1989-2002 Editorial Board, Journal of Pathology  
1990-2000 Editorial Board, Journal of Urogenital Pathology  
1992-1996 Editor-in-Chief, Advances in Pathology and Laboratory Medicine  
1997-2005 Associate Editor, Human Pathology  
1999- Editorial Board, Telemedicine Journal and e-Health  
2006- Editorial Board, Human Pathology  
2010- Editorial Board, Journal of Pathology Informatics  
2011- Associate Editor, Analytical Cellular Pathology

**REPRESENTATIVE INVITED LECTURES AND LECTURSHIPS (1998 - Present)**

- 9/10/98 “Innovations in Medical Education” Distinguished Visiting Professor, Johns Hopkins Medical School, Baltimore, Maryland
- 5/17/99 “Telemedicine and Telehealth”, Baba Lecturer, Ohio State University School of Medicine, Columbus, Ohio
- 2/11/00 “Multi-Drug Resistance in Cancer”, E. Clifford Toren Memorial Lecturer and Distinguished Visiting Professor, University of South Alabama
- 2/12/00 “Linking Physicians and Students to the Information Superhighway”, Distinguished Visiting Professor, University of South Alabama
- 6/00 “Telemedicine and e-healthcare”, Robert E. Stowell Lectureship, UC Davis School of Medicine, Davis, California
- 7/21/00 “Historical Overview of Telepathology”, 5<sup>th</sup> European Congress of Telepathology, Urich, GERMANY
- 8/14-18/00 “National Telemedicine and Telehealth Programs: Prospects for Latin America”, Panama Conference on Telemedicine, Government of Panama, University of Panama, and the Technical University of Panama, Panama City, PANAMA
- 10/4/00 “Multi-drug Resistance in Cancer”, American Society for Clinical Pathology, Regional Urologic Pathology Course, Miami, Florida
- 10/4/00 “Telepathology: The Networking of Diagnostic Services”, American Society for Clinical Pathology, Regional Urologic Pathology Course, Florida
- 10/16/00 “Innovation in Telepathology”, XXIII International Congress of the Academy of Pathology, Nagoya, JAPAN
- 10/18/00 “State-of-the Art in Telepathology--Briefing”, Japanese Government (MITI) and Industry, Tokyo, JAPAN
- 10/19/00 “Telepathology Systems and Networks”, University of Marioka, Marioka, JAPAN
- 10/21/00 “Evolution of Telepathology Systems: Historical Overview”, Kyoto International Forum for Telepathology and Regional Medicine, Kyoto, JAPAN
- 11/20/00 “Correctional Telemedicine—Building Successful Telemedicine Programs”, National Correction Telemedicine Conference – Tucson, AZ
- 4/1-5/01 “Telepathology Systems and Networks”, 7th European Society for Analytical Cellular Pathology, Caen, FRANCE
- 6/18-21/ 01 “Telemedicine: The Networking of Pathology Diagnostic Services”, 6<sup>th</sup>

Conference on the Medical Aspects of Telemedicine, Uppsala SWEDEN

- 7/23/01 “Regional and Sub-National Telemedicine Networks”, State-of-the-Art in Telemedicine/Telehealth An International Perspective-Symposium, Ann Arbor, MI
- 11/28 - 12/1/01 “State of the Art in Telemedicine”, Government of Panama & University of Panama,12/1/01Panama City, PANAMA
- 9/13-16/01 “Telepathology Tutorial”, World Health Organization Conference on Telemedicine in the Western Pacific, Empire Resort, BRUNEI
- 10/04/01 “Telemedicine Programs and Applications”, Government of Panama, Panama City, PANAMA
- 04/06/02 “Telemedicine and Telehealth in the Twenty first Century”, 50<sup>th</sup> Anniversary University of Panama College of Medicine, Panama City, PANAMA
- 06/02/02 “Corrections Telemedicine in Arizona”, American Telemedicine Association, Annual Meeting, Los Angeles, CA
- 06/05/02 “Building Successful Telemedicine Programs”, American Telemedicine Association, Annual Meeting, Los Angeles, CA
- 11/19/02 “Why Corrections Telemedicine?”, National Corrections Telemedicine Conference, Tucson, AZ
- 6/18/02 “Telemedicine Applications: Current Status”, Distinguished Visiting Professor, University of Manitoba, Winnipeg, CANADA
- 6/19/02 “Telehealth: A Vision for the Future”, International Conference on Healthcare Communication, Winnipeg, CANADA
- 06/24/02 “Regional Telemedicine Initiatives and Homeland Security”, Western Governors Conference, Phoenix, AZ
- 10/02/02 “Advanced Analytical Imaging and Telepathology”, Advancing Pathology Informatics, Imaging and the Intermeeting (APIii) Meeting, Pittsburgh, PA
- 10/18/02 “Multidrug Resistance in Cancer”, American Society for Clinical Pathology Regional Meeting, Toronto, CANADA
- 10/18/02 “Telemedicine and Telehealth”, American Society for Clinical Pathology Regional Meeting, Toronto, CANADA
- 02/26/03 “National and International Telemedicine”, Ministry of Health, Panama City, PANAMA

- 04/26/03 “Telemedicine, Tropical and Molecular Medicine” Initiatives in Latin America, Army telemedicine Partnerships 2003, Orlando, Florida
- 05/17/03 “Innovations in Telemedicine and Telepathology”, University of Florida, Gainesville, Florida
- 9/24/03 “Regional Telemedicine Programs: Opportunities for Cancer Centers”, Moffett Center University of Southern Florida, Tampa, Florida
- 12/9/03 “Marketing Strategies for Telemedicine Companies”, ATA’s Industry Council Meeting Georgetown University Conference Center
- 12/10/03 “Recent Developments in Pathology Research, Education, and Practice”, ASCP Educational Course Broadmoor Colorado Springs, CO
- 1/14/04 “Development of Telehealth UltraClinics”, TATRC Technology Advances in Research Portfolios Newport Beach, CA
- 2/13/04 “Pathologists as Information Specialists: Emerging Opportunities in Telehealth and Informatics” Western and Midwestern Chairs and PDAS Annual Meeting, Hawaii
- 2/26/04 “Health Disparities” The 1<sup>st</sup> Annual Congressional Forum for Native American and Alaska Native Tribal Leaders and Tribal College Presidents, Washington, DC
- 3/4/04 “Building a Successful Telemedicine Program” Alaska Rural Health & Primary Care and International Telehealth Conferences Anchorage, AK
- 3/24/04 “Telemedicine and Telehealth: Patient Care in the 21<sup>st</sup> Century” Harrington Lecturer University at Buffalo
- 3/25/04 “Why intelligence Matters: Case studies in Medical Innovation” AOA Lecture AQA chapter at SUNY-University of Buffalo
- 4/6/04 “Telemedicine: Medical equipment and procedures” Photon Forum 2004, Tucson, AZ
- 5/4/04 “Planning a State-Wide Telemedicine Program. The Concept of Authority Management” ATA Annual Meeting Tampa, FL
- 6/8/04 “Telemedicine, a regional prospective” TATRC University of Utah, Salt Lake City, Utah
- 7/8/04 “Reinvention of Light Microscopy: A Novel Array Microscope for Ultrarapid Virtual Processing and Telepathology.” 7<sup>th</sup> European Congress on Telepathology Pozan, POLAND (via video conferencing).

- 8/4/04 “Overview of Arizona Telemedicine Program and their International Connections” Argentinean Telemedicine Symposium (via video conferencing)
- 8/23/04 “Outcome Expectations: Setting the Vision for the Four Corners Telemedicine Program” Four Corner’s Telemedicine & Telehealth Planning Conference Tucson, AZ
- 9/29/04 “How telemedicine will affect hospital laboratories today & tomorrow.” 22<sup>nd</sup> Annual Lab Institute, Washington G-2 Report, Washington DC (via video conferencing)
- 10/27/04 “Recent Developments in Pathology Research, Education, Telepathology and Virtual Microscopy”, ASCP Course Alberta CANADA
- 10/28/04 “Educating Health Care Teams: Implications for Pathology of the IOM report, ‘Health Professions Education: A Bridge to Quality’ 2004 Regional APC/PRODS Santa Fe, NM
- 2/3/05 Invitation to Present “UltraClinics” and “THealth” at the White House Treaty room, Washington, DC
- 2/9/05 “Latest ATP Activities, 4 Corner Consortium & eHealth U” IHS Southwest Telehealth Consortium, Tucson, AZ
- 4/28/05 “Globalization of Lab Medicine, Four Corners, Latin America & Beyond:” Keynote Lab Week speaker, University Medical Center, Tucson, AZ
- 7/21-22/05 “The Arizona Rural Telemedicine Experience” Hospital Leadership and Systems Improvement (HLSI), St. Louis, MO
- 8/22-25/05 “Historical Overview of Telepathology”, 4<sup>th</sup> Asian Pacific IAP Congress, Beijing, CHINA
- 8/26-27/05 “Update on Telepathology and Telemedicine” “University of Shanghi, Shanghi, CHINA
- 9/11-13/05 “Balancing Technical, Political, and Organizational Issues within your Telemedicine Program” ATA Fall Forum Palm Springs, CA
- 9/15/05 “THealth – new concept in teaching medical students” AZ State of Representatives, Phoenix, AZ
- 10/20/05 “Recent Developments in Pathology Research, Education, Telepathology and Virtual Microscopy”. ASCP Course Chicago, IL
- 11/10/05 “Developing Successful Telemedicine Programs”, The World Healthcare Innovation & Technology Congress, Washington, DC



- 3/1/2006 “Successful Telemedicine Programs”, Programs Quality Improvement, Plainfield, IN
- 4/27/2006 “Telemedicine and Telehealth: Healthcare on the Information Super Highway”, Mini Medical School, Sedona, AZ
- 5/8/2006 “Telepathology – New Findings and Reports”, ATA Annual Meetings, San Diego, CA
- 5/19/2006 Total Cancer Care (TCC) External Advisory Board, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
- 8/29/2006 “Future of Telepathology”, Integrated Medical Information Technology System Program, Lackland Air Force Base, San Antonio, TX
- 9/7/2006 “Distance Education: Promising Practices to Enhance Native American Health Professions”, Pathways Into Health Professional Development Conference, Indian Health Service, Denver, CO
- 9/20/2006 “Breaking the Glass: The Advent of the Virtual Slide”, International Academy of Pathology 100<sup>th</sup> Anniversary International Congress, Montreal, CANADA
- 9/29/2006 “Intersecting Technology & Improved Patient Care: How telepathology can improve services to hospitals and clinics”, G-2 Report Lab Institute Making Connections Work, Washington, DC
- 12/6/2006 “Scientific Aspects of Virtual Slides, From Concept to Execution”, American College of Veterinary Pathology, Tucson, AZ
- 12/7/2006 “Special Presentation: Telemedicine”, American Legislative Exchange Council, Phoenix, AZ
- 12/19/2006 “Whole Slide Scanning”, Digital Pathology Symposium and Workshop, Falls Church, VA (via video conference)
- 3/1-2/2007 “Telepathology: Past, Present and Future”, American Pathology Foundation Spring Conference, Las Vegas, NV
- 5/5/2007 “History of Pathology in Arizona”, Arizona Society of Pathologists, Tucson, AZ
- 6/9/2007 “The “S” Curve Phenomena as It Relates to New Technologies in Anatomic Pathology”, Futurescape of Pathology Conference Series, CAP Foundation Chicago, IL
- 6/10/2007 “Future Applications: Threat or Opportunity”, Futurescape of Pathology Conference Series, CAP Foundation Chicago, IL
- 9/14/2007 “Pathways tele-education update”, Pathways into Health Chicago, IL

- 9/26/2007 “Recent developments in pathology research, education, telepathology and virtual microscopy”, American Society for Clinical Pathology Scottsdale, AZ
- 10/20/2007 “New Frontiers in pathology innovation”, The University of Kansas Medical Center Kansas City, Missouri
- 10/25/2007 “Getting to know you – Next generation interprofessional curriculum telecommunication technology”, Collaborating Across Borders, University of Minnesota Academic Health Center Minneapolis, MN
- 10/28/2007 “Embracing the Quality Care Provided by Telemedicine”, National Healthcare CFO/CIO Summit Palm Springs, CA
- 1/30/2008 “Overview Arizona Telemedicine Program”, American Colleges of Healthcare Executives, Phoenix, AZ
- 2/26/2008 “Virtual Slide Telepathology, Predicting the Future in Laboratory Medicine’, Armed Forces Institute of Pathology, Washington, DC
- 3/14/2008 “Arizona’s Leading Telemedicine Program”, Arizona Healthcare Information and Management Systems Society, Phoenix, AZ
- 3/14/2008 “What is the Future of the Glass Slide?”, American Pathology Foundation Spring Conference, Scottsdale, AZ
- 4/7/2008 “Distance education Latin American” University of Arizona – Panama Experience” American Telemedicine Association Annual Meeting American Telemedicine Association Latin American and Caribbean Chapter, Seattle, WA
- 5/01/2008 Renaissance Meeting, European Society of Pathology, Sorisole, Sirmione, Italy
- 6/8/2008 “Risks and Rewards of Pathology Innovation: Billion Dollar Bets”, Futurescape of Pathways Conference, College of American Pathologists Foundation, Chicago, IL
- 8/16/2008 “An Introduction to Telemedicine in Correctional”, 2008 American Telemedicine Association Latin American and Caribbean Chapter (ATALACC) Meeting. Panama City, Panama
- 9/25/2008 “Embracing the Future: An Introduction to virtual Microscopy and Telemedicine” College of American Pathologists (CAP), San Diego, CA
- 10/22/2008 “21<sup>st</sup> Century Tele-Everything: Taking the Helm of the Informatics Ship”, Advancing Practice, Instruction and Innovation through Informatics (APIii) Pittsburgh, PA
- 12/03/2008 “Overview: Arizona Telemedicine Program and the T-Health Institute” Greater

Phoenix Leadership, Phoenix, AZ

- 12/03/2008 “Overview: Arizona Telemedicine Program and the T-Health Institute”  
Children’s Phoenix Hospital, Phoenix, AZ
- 12/11/2008 “Telemedicine in Arizona: Specialists at a Distance” The Mariposa Series,  
Nogales, Arizona
- 2/7/2009 “Strategies for Institutionalizing and Achieving Long Term Sustainability of  
Telemedicine and Telehealth Programs and Services”, Third Intensive Balkan  
Telemedicine and e-Health Seminar Skopje, Republic of Macedonia (via video)
- 2/10/2009 “Next Generation Pathology diagnostics: Predicting the Future” Genzyme  
Genetics national Meeting. Tucson, AZ
- 2/26/2009 “Telemedicine Overview” TATRC Meeting. South Carolina
- 2/28/2009 “Building of a Telemedicine Program” ATA Annual Meeting. Las Vegas, NV
- 8/13/2009 “Emerging Technologies for Professional Health Education” ACICBL Meeting.  
Washington, DC
- 10/11/2009 “Embracing the Future: An Introduction to Virtual Microscopy and  
Telemedicine” CAP Annual Meeting. Washington, DC
- 7/16/2010 “Integration of Telemedicine into the Fabric of Healthcare. IVEH Meeting.  
Albania
- 7/16/2010 “Arizona Healthcare Information Technology” Arizona Pharmacy Alliance  
(AZPA) 6<sup>th</sup> Annual Meeting. Tempe, AZ
- 9/20/2010 “Surgical Pathology Quality Assurance Program Using Robotic Real-time  
Telepathology” Pathology Informatics 2010 Conference. Boston MA
- 9/27/2010 “Teaching Basic Path to High School Students” CAP Annual Meeting, Chicago,  
IL
- 3/11/2011 “Telemedicine’s Potential: Enhancing access and efficiency of Quality Inmate  
care” 4<sup>th</sup> Academic & Health Policy Correctional Health, Boston, MA
- 5/2/2011 USDLA presentation “Distance Education and Healthcare Reform” ATA  
Annual Meeting, Tampa, FL
- 6/7/2011 “Rural Outreach: Telehealth Services for the Military and Veteran Populations”  
Arizona Coalition for Military Families National Guard, Phoenix, AZ
- 8/3/2011 “Z-Axis Challenges in Whole Slide Imaging (WSI) Telepathology”  
International Academy of Digital Pathology Conference, Quebec, Canada

- 9/23/2011 “International Telemedicine Practices and Marketing Opportunities” University of Arizona Eller College, Tucson, AZ
- 10/4/2011 “Telepathology and Digital Pathology” Pathology Informatics Conference, Pittsburgh, PA
- 10/7/2011 “Same-day Surgical Pathology: Technology-driven Faster, Better, Cheaper Services” Pathology Informatics Conference, Pittsburgh, PA
- 11/7/2011 “Role of the Telehealth Resource Center, Training the Workforce in Telehealth” AAMC Annual Meeting, Denver, CO
- 3/17/2012 “Pathology Informatics Curriculum for Pathology Residents – The API Model” USCAP Annual Meeting, Vancouver, BC, Canada
- 4/18/2012 “You Bet Your Life”. The Patient’s Critical Role at the Table in Avoiding deadly or Crippling Medical Errors” Science Café, Phoenix, AZ
- 6/7/2012 “5<sup>th</sup> Generation Telepathology System: The Whole Slide Image-Enhanced Dynamic Robotic Telepathology System” 11<sup>th</sup> European Congress on Telepathology Conference, Venice, ITALY
- 7/24/2012 “Clinical and Business Benefits of Telehealth” iHT2 Conference, Denver, CO
- 9/9/2012 “Applied Aspects of Telemedicine & Telehealth” ATA Fall Forum, New Orleans, LA
- 9/13/2012 “Telemedicine Increases Access to Specialty Care in Arizona”, 39<sup>th</sup> Annual Arizona Rural Health Conference, Tucson, AZ
- 10/25/2012 “The Role of Telemedicine in Sustainable Development”, Academy of Optometry Conference, Phoenix, AZ
- 11/7/2012 “Telehealth and Health Informatics—How They Should Work Together”, HINZ 2012 (Health Informatics New Zealand), Auckland New Zealand (by Video Conference from Tucson, AZ)
- 12/9/2012 “Integrating Telemedicine into the Fabric of Medical Systems without being seen as Disruptive”, International Telemedicine and e-Health Congress. Prishtina, KOSOVA
- 1/28/2013 “ACOs, Health Care Reform and Other Drivers Creating the Urgency for Virtual Care Models (panel)”, World Congress on Telehealth Conference, San Diego, CA
- 2/12/2013 “Broadband in Education and Health Services: Challenges, Success Stories, and Opportunities in Indian Country (panel)”, Tribal Telecom Conference,

Chandler, AZ

- 2/18/2013 “Arizona Telemedicine Program Overview”, Western States Telehealth Meta-Consortium Meeting, Greenwood Village, CO.
- 8/21/2013 “Innovation in Telemedicine”, 40<sup>th</sup> Annual Rural Health Conference, Prescott, AZ.
- 10/11/2013 “Got Telemedicine? Driving healthcare improvement in Arizona”, ASU/Flinn Forum, Phoenix, AZ.
- 11/6/2013 “Informatics of Today and Tomorrow”, Western Pathology Chairs Conference, Sedona, AZ

### **REPRESENTATIVE GRANTS AND CONTRACTS (1990-Present)**

- 1990-1996 Pathology: Cytogenetic Oncology Program Project NCI P001CA41183, (Co-Investigator) \$2,623,347
- 1993-1994 Pathology: Cancer Center Support Grant, NIH P30CA23074, (Co-Investigator) \$1,678,326
- 1993-1997 Pathology: Prostate Carcinoma Program Project, NCI P01CA56666 (Co-Investigator) \$4,774,777
- 1994-1995 Pathology: Cancer Center Support Grant, NIH P30CA23074 (Co-Investigator) \$1,642,049
- 1997-2000 Arizona Telemedicine Link with Mariposa Community Health Center”, (PI), US Department of Agriculture, \$141,150
- 1997-1998 “Telemedicine Support for Cobre Valley Hospital”, Arizona Department of Health Services, HS656017, (PI), \$177,400
- 1997-2001 “Arizona Telemedicine Program with Ganado, Nogales, and Springerville”, (PI) US Office of Rural Health Policy, H2ATM00236, \$684,724
- 1998-1999 “Interactive Multimedia CD-ROM for Telemedicine”, (PI), US West/Quest, \$15,400
- 1998-1999 “Arizona Telemedicine Program for Continuing Education and Community Outreach at Payson Regional Medical Center”, Tonto-Apache Indian Tribal Council (PI), \$10,000
- 1998-2002 Pathology: Prostate Carcinoma Program Project, NCI P01CA56666 Weinstein, RS Co-Investigator \$3,906,349
- 1998-2002 Arizona Telemedicine Program: Miniaturized Microscope Array Digital Slide Scanner, NSF BES0124922 Weinstein, RS Co-Investigator \$92,659
- 1998-2001 “Arizona Telemedicine Link with the Whiteriver Indian Health Service

- Hospital”, (PI), US Department of Agriculture, \$142,075
- 2000-2003 Arizona Telemedicine Program: Establish Telemedicine Connection for the Hopi Health Care Center USDA-RUS Weinstein, RS Principal Investigator \$121,175
- 2000–2001 “Studies on the High Speed, Broadband Wireless Data Transfer in diverse Desert and Tropical Environments”, (PI), US Department of Defense, DAAD101C0005, \$438,380
- 2001-2002 “Miniaturized Microscope Array Digital Slide Scanner”, (Co-investigator), National Science Foundation, \$46,326
- 2001-2002 Arizona Telemedicine Program: Establish School Nursing Program/Support NARBHA Telemedicine Program, Arizona Legislature Grant Weinstein, RS Principal Investigator \$225,000
- 2002-2003 “Novel Applications of Telemedicine in Extended Care, Patient Homes and Chapter Houses, Tuba City/Douglas”, (PI), Arizona Department of Health Services HS256016, \$250,000
- 2002-2003 “Novel Applications of Telemedicine in Extended Care, Patient Homes, and Chapter Houses-Tuba City/Safford”, (PI), Arizona Department of Health Services HS354164, \$250,000
- 2002-2003 “Intellectual Technical Support Services for Biological and Tropical Medicine”, (PI), US Department of Defense, DATM0702C0045, \$350,000
- 2002-2003 “Microscope Miniaturized Arrays”, (Co-Investigator), NIH-SBIR, \$91,500
- 2003-2006 “Arizona Diabetes virtual Center of Excellence”, (PI), HHS, Office for the Advancement of Telehealth, \$750,000
- 2003-2004 “Intellectual Technical Support for Biological and Tropical Sciences” (PI), US Department of Defense, Panama Cooperative Research and Development Agreement, US Army Proving Ground, \$350,000
- 2004-2005 “The Four Corners Telemedicine Conference”, United States Army Med Research and ACQ Activity, \$29,758
- 2005-2006 “Evaluating Automated Immunohistochemical Staining Technology for Telepathology” (CO-PI) USA Medical (TATRC) \$200,000
- 2005-2006 “Evaluation of the Array Microscope for Telepathology” (CO-PI) USA Medical (TATRC) \$216,000
- 2005-2006 “Institute for Advanced Telemedicine and Telehealth (Thealth)” (PI)

- Department of Defense, Medical Advance Technology \$1,200,000
- 2005-2006 “Intellectual Technical Support Services for Biological and Tropical Sciences” (PI) Department of Defense US Army, Panama \$350,000
- 2006-2007 “Intellectual Technical Support Services for Biological and Tropical Sciences” (PI) Department of Defense US Army, Panama \$450,000
- 2007-2008 “Intellectual Technical Support Services for Biological and Tropical Sciences” (PI) Department of Defense US Army, Panama \$450,000
- 2007 – 2009 “Intellectual Technical Support services for Biological and Tropical Sciences” (PI) Department of Defense US Army, Panama \$375,000
- 2007 – 2009 “Improving Diabetes Care Telemedicine Project” (PI) Arizona Department of Health Services, \$372,000
- 2007 – 2010 “Optimized Compression for Telepathology” (Co-PI) NIH, \$1,223,597
- 2009 – 2013 “Southwest Telehealth Resource Center” (Co-PI) HRSA, \$1,137,950

#### **ACTIVITIES RELATED TO CANCER RESEARCH:**

- 1974-1975 Member, Executive Committee, Tufts Cancer Center
- 1974-1975 Member, Scientific Advisory Committee, Tufts Cancer Center
- 1976-1979 Member, Executive Committee, Rush Cancer Center
- 1975-1977 Member, Working Cadre (Study Section), National Bladder Cancer Project, National Cancer Institute
- 1976-1979 Member, Executive Committee, Rush Cancer Center
- 1977-1980 Member, Program Committee, National Bladder Cancer Project Annual Workshops, National Cancer Institute
- 1977-1980 Pathologist, National Bladder Cancer Collaborative Group A, National Cancer Institute
- 1978-1980 Member, Bladder and Prostatic Cancer Review Committee, National Cancer Institute (Study Section)
- 1978-1983 Member, Medical Advisory Board, Leukemia Research Foundation
- 1980-1990 Consultant, Illinois Cancer Council, Clinical Trials Committee
- 1981-1983 Consultant, Urinary Bladder Subcommittee, National Institute of Health
- 1981-1990 Consultant, Heart and Lung Institute, National Institutes of Health
- 1982-1983 Member, Program Committee, Second National Conference on Bladder Cancer
- 1983-1988 Member, Executive Committee, National Bladder Cancer Group
- 1983-1984 Member, Program Committee, National Bladder Cancer Project Annual Workshop, National Cancer Institute
- 1983-1988 Director, Central Pathology Laboratory, National Bladder Cancer Group
- 1984-1988 Principal Investigator, Urinary Bladder Cancer Flow Cytometry Network, National Cancer Institute
- 1985-1986 Member, Bladder Expert Panel, College of American Pathologists

1986-1989 Member, Bladder Cancer Working Group, Organ Systems Program, National Cancer Institute  
 1987-1989 Chairman, Clinical Resources Committee, Bladder Cancer Working Group, National Cancer Institute  
 1990-1996 Member, Genitourinary Tumor Biology Committee, Southwest Oncology Group  
 1991-1994 Member, Black/White Bladder and Prostate Cancer Survival Group, National Cancer Institute  
 1991-1995 Member, Urologic Committee, Southwest Oncology Group  
 1993-1996 Chairman, Program Committee, International Society for Urologic Pathology  
 2005-2007 Total Cancer Care (TCC) External Advisory Board, H. Lee Moffitt Cancer Center & Research Institute, Tampa FL  
 2012 Member, External Advisory Committee for the Center for Biophysical Pathology, UMDNJ-NJMS, New Jersey Medical School, NJ

### **ACTIVITIES RELATED TO MEDICAL STUDENT AND RESIDENT EDUCATION**

1976-1979 Member, Committee on Undergraduate Education, Association of Pathology  
 1982-1986 Member, Pathology Test Committee, National Board of Medical Examiners  
 1984 Chairman, Roundtable on Artificial Intelligence, Annual Pathology Residency Program Directors Meeting  
 1986 Chairman, Roundtable on Telepathology, Annual Pathology Residency Program Directors Meeting  
 1981-1984 Member, Committee on Graduate Medical Education, Association of Pathology Chairmen  
 1982-1984 Chairman, Graduate Education Committee, Association of Pathology Chairmen  
 1982-1989 Member, Conjoint Committee for Pathology Residency Program Directors, American Society Clinical Pathology  
 1982- Liaison Member, Commission on Education, College of American Pathologists  
 1984-1990 Member, Committee on Graduate Medical Education, Association of Pathology Chairmen  
 1985 Conference Chairman, Annual Pathology Residency Program Directors Meeting  
 1986-1988 Chairman, Committee on Graduate Medical Education, Association of Pathology Chairmen  
 1987 Chairman, Park City Meeting on Residency Curriculum, Park City, Utah  
 1987 Organizer and Program Chairman, First Annual Summer Meeting of the Association of Pathology Chairs, Aspen, Colorado  
 1988 Senior Author, Park City Report on Residency Training, Association of Pathology Chairmen  
 1988-1990 Councilor, Association of Pathology Chairmen  
 1990-1991 Secretary-Treasurer, Association of Pathology Chairmen  
 1991-1992 Member, Finance Committee, Association of Pathology Chairmen  
 1994-1996 Member, Graduate Education Committee, Association of Pathology  
 1996-1998 Member, Council, Association of Pathology Chairs  
 1998-1999 Vice President, Association of Pathology Chairs  
 1997-1999 Member, Education and Research Council, Commission on Graduate Medical, Education in Pathology, American Society of Clinical Pathologists  
 1998-2001 Member, Executive Committee, Universities Associated for Research and



- Education in Pathology
- 2003-2006 Medical Faculty Representative to American Medical Association Section on Medical Schools
- 2010- Consultant, Macy Planning Grant, "A New Integrated Approach to Primary Care Education
- 2009-2011 Chair, Local Arrangements Committee, Collaborating Across Borders III (Biennial, bi-national conference on inter-professional education)
- 2010-2011 Co-Director, Collaborating Across Borders III, November 19-21, 2011, Tucson, Arizona (750 attendees from 11 countries).

### **UNITED STATES AND CANADIAN ACADEMY OF PATHOLOGY ACTIVITIES**

- 1980-1981 Member, Membership Committee, International Academy of Pathology
- 1980-1982 Member, Benjamin Castleman Award in Human Pathology Committee, Massachusetts General Hospital (Co-founder of the Castleman Award)
- 1980-1981 Member, Local Arrangements Committee, International Academy of Pathology, Chicago, Illinois
- 1981-1983 International Councilor, International Academy of Pathology, United States-Canadian Division
- 1982-1984 Member, Benjamin Castleman Award Committee, International Academy of Pathology
- 1983-1986 Member, Education Committee, International Academy of Pathology
- 1983-1987 Co-Director, Short Course: Pathobiology Update Series, International Academy of Pathology
- 1984 Co-Director, Long Course: New Concepts in Neoplasia, International Academy of Pathology International Congress, Miami Beach, FL
- 1986-1987 Vice-President, International Academy of Pathology, United States-Canadian
- 1987-1991 Co-Director, Short Course: Newer Techniques in Diagnostic Pathology United States-Canadian Academy of Pathology
- 1989-1990 Co-Director, Long Course: Uropathology, United States-Canadian Academy of Pathology
- 1988-1991 Member, Finance Committee, U.S.-Canadian Academy of Pathology
- 1988-1989 President, United States-Canadian Academy of Pathology
- 1988-1989 International Councilor, International Academy of Pathology
- 1989-1990 Member, Nominating Committee, United States-Canadian Academy of Pathology

### **TELEMEDICINE AND TELEPATHOLOGY ACTIVITIES**

- 1995-1996 Member, Program Committee, Third European Meeting on Telepathology
- 1996-1997 Member, Telemedicine Operational Implementation Task Force, American Telemedicine Association
- 1997-2005 Member, Board of Directors, American Telemedicine Association
- 1999-2007 Co-Chair, Telepathology Special Interest Group, American Telemedicine Association
- 1999-2000 Secretary, American Telemedicine Association
- 1999-2001 Member, Bylaws Committee, American Telemedicine Association
- 1999-2002 Co-Chairman, Correctional National Telemedicine Conference
- 2000 Member, Program Committee, Fifth European Congress on Telepathology
- 2000-2002 Vice-President, Association for Pathology Informatics
- 2000-2001 Vice President, American Telemedicine Association

2001-2001 President-Elect, American Telemedicine Association  
2001-2001 Program Director, Annual Meeting, American Telemedicine Association, Los Angeles  
2001-2009 International Advisor, Panama National Telemedicine Program  
2002-2009 Chairman, International Advisory Committee, Panama National Telemedicine Program  
2002-2004 Chairman, International Collaborative Study Group, Panama  
2002-2006 Member, Scientific Advisory Committee, Armed Forces Institute of Pathology, Washington, D.C.  
2001-2002 Short Course Coordinator, American Telemedicine Association Annual Meeting, Los Angeles  
2001-2002 Long Course Director, "Building Successful Telemedicine Programs" American Telemedicine Association  
2003-2004 President, American Telemedicine Association  
2004-2006 Member, Governor's Council on Health, Physical Fitness and Sport, State of Arizona  
2005-2007 Member, Governor's Arizona Health-e Connection Steering Committee  
2005-2007 Member, Tele-Education Committee University of Arizona, College of Medicine  
2005-2008 Member, Governor's Arizona Health Information Technology Committee  
2006-2008 Member, Telehealth Advisory Board, Center for IT Leadership, Partners Healthcare-Harvard  
2004-2006 Founding Director, Four Corners Telehealth Consortium  
2006- Member, Four Corners Telehealth Consortium  
2006- Member, Program Committee, Arizona Digital Government Summit  
2007- Member, Board of Directors Arizona Health-e Connection  
2012- Liaison, College of American Pathologists, Diagnostic Intelligence and Health Information Technology (DIHIT) Committee

**SCIENTIFIC/INTRAMURAL:**

1979-1985 Member, Committee on Senior Appointments and Promotions, Rush Medical College  
1982-1990 Member, Task Force on Research and Development, Office of Consolidated Laboratories  
1983 Member, Student Research Awards Committee, Rush Medical College  
1984-1986 Member, Task Force on Planning Educational Computing Resources, Rush University  
1984-1990 Member, Cancer Center Advisory Committee, Rush Medical College  
1984-1985 Member, OCLS Committee for Development Projects Symposia, Rush Medical College  
1985-1988 Member, Committee on Senior Appointments and Promotions, Rush Medical  
1990-1992 Member, Institutional Cancer Research Grant Committee, College of Medicine, University of Arizona, Health Sciences Center  
1990-1999 Member, Executive Committee, Arizona Cancer Center  
1991-1993 Member, Inter-institutional Research Grant Committee, University of Arizona  
1992-1994 Member, Strategic Planning Committee, Arizona Cancer Center

1995-1998 Member, Medical and Biological Engineering Committee  
2010- Member, Cancer Imaging Group, Arizona Cancer Center

#### **EDUCATIONAL/INTRAMURAL:**

1973-1975 Member, Learning Resources Committee, Tufts Medical College  
1973-1975 Member, Senior Faculty Promotions and Tenure Committee, Tufts Medical College  
1975-1978 Course Director, Pathology/Phase I, Rush Medical College  
1975-1990 Director, Pathology Residency Program, Rush-Presbyterian- St. Luke's Medical Center  
1976-1990 Director, Osler Summer Fellowship Program for High School and College Students, Rush Medical College  
1976-1981 Member, Faculty Council, Rush Medical College  
1977-1990 Director, Post-Sophomore Fellowship Program, Rush Medical College (supervisor of 51 fellows)  
1977-1979 Secretary, Council of Department Chairmen, Rush-Presbyterian St. Luke's Medical Center  
1978-1988 Director, Clinicopathological Conference Series, Rush Medical College  
1980-1985 Director, NIH/Medical Students Short-Term Research Training Program (Herrick Fellowships), Rush Medical College  
1982-1990 Member, Education Committee, Office of Consolidated Laboratories, Rush-Presbyterian-St. Luke's Medical Center  
1991-1993 Director, Clinicopathologic Conference Series, University of Arizona  
1991-1995 Director, Osler Summer Fellowship Program for High School and College Students, University of Arizona  
1994-1995 Member, Faculty Mentor for Honors Program, University of Arizona  
1993-1995 Member, Dean's Award Committee  
1995-2007 Director, Post-Sophomore Fellowship Program, University of Arizona  
2010- Member, Inter-professional Education Steering Committee, University of Arizona College of Medicine

#### **ADMINISTRATIVE/INTRAMURAL:**

1977-1979 Member, Dean's Faculty Council Advisory Committee  
1977-1980 Member, Laboratory Services Board Advisory Committee, Rush-Presbyterian-St. Luke's Medical Center  
1976-1978 Member, University Council, Rush University  
1976-1977 Member, Search Committees, Rush Medical College: Dean and Vice-President for Medical Affairs; Ophthalmology Chairman, Microbiology  
1976-1979 Chairman; Cancer Center Director Search Committee  
1980-1981 Chairman, Task Force on Laboratory Centralization, Rush-Presbyterian-St. Luke's Medical Center  
1981-1983 Member, Providers Advisory Committee, Office of Consolidated Laboratories, Rush-Presbyterian-St. Luke's Medical Center  
1982-1983 Co-Chairman, Search Committee for Chairman of Internal Medicine, Rush

1984-1985 Medical College and Rush-Presbyterian-St. Luke's Medical Center  
 Chairman, LCME Clinical Science Departments Self-Study Committee, Rush  
 Medical College  
 1984-1985 Member, LCME Objectives Self-Study Subcommittee, Rush Medical College  
 1985 Member, Presidential Inauguration Committee, Rush University  
 1985-1988 Member, Faculty Council, Rush Medical College  
 1985-1990 Member, Users Committee, Laboratory Information System,  
 Rush-Presbyterian-St. Luke's Medical Center  
 1986-1987 Member, Alternative Curriculum Evaluation Subcommittee, Rush Medical  
 College  
 1988-1990 Member, Search Committee for Director of Division of Cell Biology, Graduate  
 College, Rush University  
 1988-1990 Member, Advisory Committee, Rush Alzheimer's Disease Center, `,  
 Rush-Presbyterian-St. Luke's Medical Center  
 1990-1992 Member, UPI Finance Committee, College of Medicine, University of Arizona  
 Health Sciences Center  
 1990-1991 Chairman, Search Committee for Head of Pharmacology, University of Arizona  
 College of Medicine  
 1990-1991 Member, Committee on Biophysics, College of Medicine, University of  
 Arizona  
 1991-1993 Member, Awards Committee, College of Medicine, University of Arizona  
 1991-1994 Member, Institutional Research Grant Committee, University of Arizona  
 1991- Member, UPI Executive Committee, University of Arizona  
 1991-1995 Chairman, UPI Public Relations Committee, University of Arizona  
 1992-1994 Member, Curriculum Sunset Review Committee, University of Arizona  
 1992-1993 Chairman, Philosophy Committee, Comprehensive Curriculum Analysis and  
 Planning Project, University of Arizona  
 1992-1994 Member, Strategic Planning Committee, Arizona Health Sciences Center,  
 University of Arizona  
 1992-1993 Member, Search Committee for Chairman of Department of Radiology,  
 University of Arizona  
 1992-1998 Member, Cancer Cell Biology Graduate Program  
 1992-1994 Member, Arizona Health Sciences Library Art Committee  
 1992-1996 Member, Clinical Oncology Research Training Grant Advisory Committee,  
 Arizona Cancer Center  
 1993-1994 Member, Clinical Research Training Grant Program Committee, Arizona  
 Cancer Center  
 1993-1996 Director, Arizona-International Telemedicine Network  
 1994-1995 Treasurer, University Physicians, Inc., (Group Practice) University of Arizona  
 1995-1997 *Ex Officio* Member, Medical and Biological Engineering Committee  
 1996-1997 Member, Steering Committee, University Medical Center, Re-engineering  
 Team  
 1996- Director, Arizona Telemedicine Program  
 1996- Director, Arizona Rural Telemedicine Network  
 1997 Director, Arizona Telemedicine Technology Assessment Center  
 1997-1999 Chairman, Public Art Committee, University of Arizona, College of Medicine  
 1998-2002 Member, Operations Committee, University Physicians Incorporated  
 1999-2001 Member, Strategic Planning Initiative, U of A/UPI/UMC

1999-2003 Chairman, Operations Committee, University Physicians Inc.  
 1999-2000 Chairman, Executive Committee, University Physicians Inc.  
 1999-2001 Member, Board of Directors, University Physicians Inc.  
 2002-2003 Chairman, Search Committee, Family and Community Medicine  
 2004-2005 Member, Steering Committee, College of Medicine Phoenix Campus  
 2005- Member, Steering Committee, Digital Arizona Summit  
 2006- Member, Board of Directors, Arizona Health-e Connection

**REGULARLY TAUGHT COURSES AND TRAINING PROGRAM:**

1978-2007 Recent Developments in Urology. 3 ½ hour annual lecture, in “Updates in Urinary Pathology Course”, American Society for Clinical Pathology (23 years)  
 1980-1990 Sir William Osler Summer Program for College Students, Rush Medical College  
 1990 - Sir William Osler Summer High School Fellowship, UofA College of Medicine  
 1979-2000 Post-Sophomore Fellowship Program, Rush Medical College, 3-9 fellows per year  
 1990-2007 Pathology 801 (University of Arizona, College of Medicine): 100 medical students per year (Course Director, 2001 to present)  
 1990 - Pathology Residency Training program: 13 residents per year  
 1995 - Post-Sophomore Fellowship program: 3 to 5 fellows per year  
 2006 - AZMed, Foundations Block, University of Arizona, College of Medicine  
 2007 - Biomedical Informatics (BMI501) ASU  
 2007 -2007 Board Review UofA, College of Medicine Phoenix Campus  
 2008 - Sir William Osler Summer High School Fellowship, UofA College of Medicine, Phoenix Campus  
 2009-2011 Phoenix Union Bioscience High School, Mechanisms of Disease Elective Course (Health Literacy Initiative)  
 2013- BASIS Schools, Tucson and Oro Valley, Mechanism of Disease Elective Courses (Health Literacy Initiative)

**PATENTS**

1. **Weinstein, R.S.** Telepathology diagnostic network, U.S. Patent No. 5,216,596 (July 1993)
2. **Weinstein, R.S.** Telepathology diagnostic network, U.S. Patent No. 5,297,034 (March 1994)
3. **Weinstein, R.S.**, Descour, M.R., Liang, C, Bartels, P.H., Slack, R.V: Inter-objective baffle system. US Patent 7,116,437 B2 (October 2006)
4. **Weinstein, R.S.**, Descour, M.R., Liang, C, Bartels, P.H., Slack, R.V: Miniaturized microscope array digital slide scanner. US Patent 7,184,610 B2 (February 2007)

**BOARD OF DIRECTORS**

1. OWLCAT Corporation, Inc., Board Chairman (1983-1985); Acquired by Digital Research, Inc. (1985)
2. Corabi International Telemetrics, Inc., Board Chairman (1985-1990)
3. DMetrix, Inc., (2001-2011)
4. Arizona Health-e Connection (Governor designated EHR/HIE Organization)

5. Academy Services Corporation (Academy Village, Tucson, Arizona)
6. International Virtual Healthcare (IVeH) Foundation (2006- )
7. iCons in Medicine Foundation (2005-2012)

## **BIBLIOGRAPHY**

### **Professional Publications - Total = 552**

#### **Published Abstracts:**

1. Bryant D, **Weinstein RS**, Klein D, Doolittle RF: On the nature of dogfish trypsin. Biol Bull 1962; 123:479-480.
2. **Weinstein RS**, Abbis T, Bullivant S: The use of double and triple uranyl salts as electron stains. J Cell Biol 1963; 19:74A.
3. **Weinstein RS**, Bullivant S: Variations in chromosome ultrastructure induced by preparative techniques. J Appl Physics 1963.
4. **Weinstein RS**, Bullivant S: Ultrastructure of chromosomes after durucupan and methacrylate embedding. J Appl Physics 1963.
5. **Weinstein RS**, Hebert RR: Electron microscopy of cleavage furrows in sea urchin blastomeres. J Cell Biol 1964; 23:101A.
6. **Weinstein RS**, Bullivant S: Freeze-cleaving of mammalian red blood cells. J Cell Biol 1966; 31:121A.
7. Williams RS, **Weinstein RS**: Ultrastructural studies of red cells collected and stored in acid-citrate-dextrose solutions. Amer Assoc Blood Banks, 20th Meeting, New York, 1967.
8. Someda K, **Weinstein RS**: The distribution of a particulate component of membranes in brain and retina. Proc Electron Micros Soc Am 1967; 25:201-202.
9. **Weinstein RS**, Ivanetich L, Nash G: Replicas of fracture faces of freeze-cleaved tubular myelin figures. Proc Electron Micros Soc Am 1968; 26:134-135.
10. **Weinstein RS**, Williams RA, Someda K: A possible relationship between red cell membrane-associated particles and blood group antigenic sites. Lab Invest 1968; 18:357.
11. Nash G, **Weinstein RS**: Ultrastructure of an alveolar sac lining layer and of lamellar bodies in granular pneumocytes in freeze-cleaved lung. Am J Path 1968; 52:18A-19A.
12. Bullivant S, **Weinstein RS**, Someda K: The type II simple freeze-cleave device. J

- Cell Biol 1968; 39:19A.
13. **Weinstein RS**, McNutt NS, Nielson SL, Pinn VW: Intramembranous fibrils at tight junctions. *Proc Electron Micros Soc Am* 1970; 28:108-109.
  14. **Weinstein RS**, McNutt NS: Heat-etching with a Bullivant Type II simple freeze-cleave device. *Proc Electron Micros Soc Am* 1970; 28:106-107.
  15. McNutt NS, **Weinstein RS**: Useful resolution standards for freeze-cleave and etch replication techniques. *Proc Electron Micros Soc Am* 1971; 29:444-445.
  16. McNutt NS, **Weinstein RS**: Interlocking subunit arrays forming nexus membranes. *Biophys Soc* 1970; (Abstr)14:101A.
  17. McNutt NS, **Weinstein RS**: Ultrastructure of cell surfaces in normal and neoplastic cervical epithelium. *J Cell Biol* 1970; 43:101A.
  18. McNutt NS, Shoukimas GM, **Weinstein RS**: Design and testing of a simple freeze-cleave device for multiple specimens. Abstracts, 11th Annual Meeting, Am Soc Cell Biol 1971; 187.
  19. **Weinstein RS**, Jurick RR, Witchett CE: Ultrastructural analysis of membrane-associated particles of red cells. *J Cell Biol* 1972; 43.
  20. **Weinstein RS**: Changes in cell membrane structure associated with neoplastic transformation in human urinary bladder epithelium. *J Cell Biol* 1975; 63:267A.
  21. **Weinstein RS**, Alroy J: Computer-assisted quantitative analysis of membrane topography in freeze-fractured human urinary bladder epithelium. *Anat Rec* 1975; 181:507.
  22. **Weinstein RS**, Alroy J: Changes in the topography of integral membrane proteins in malignant transformation. *Proc Amer Assoc Cancer Res* 1975; 66:94.
  23. Marikovsky Y, **Weinstein RS**: Lateral mobility of red cell surface charge sites. *J Cell Biol* 1975; 67:260A.
  24. Marikovsky Y, Brown CS, **Weinstein RS**, Wortis HH: Relationship of the isocyte-echinocyte shape transformation to red cell surface charge. *Proc Electron Micros Soc Am* 1975; 33:512-513.
  25. Benefiel DJ, **Weinstein RS**: Image analysis of intramembrane particles in freeze-fractured membranes using computer simulation techniques. *Proc Electron Micros Soc Am* 1975; 33:214-215.
  26. Gould VE, **Weinstein RS**: Ultrastructure of fibromatosis. Myofibroblastic differentiation and intracytoplasmic collagen fibers. *Amer J Path* 1976; 82:849.

27. Alroy J, **Weinstein RS**, Pauli BU: Relations of desmosomes to tumor invasiveness in human urinary bladder transitional cell carcinomas. *Amer J Path* 1976; 82:319.
28. **Weinstein RS**, Selles WT, Young IT: Quantitative analysis of membrane topography in normal and malignant epithelium. *Proc Sixth Europ Cong Electron Micros* 1976; 2:104-107.
29. Alroy J, **Weinstein RS**, Pauli BU: Correlation between desmosome numerical density and the biologic behavior of bladder transitional cell carcinomas. A quantitative electron microscopy study. *Proc Sixth Europ Cong Electron Micros* 1976; 2:370-371.
30. Pauli BU, **Weinstein RS**, Alroy J, Cohen S: Gap junctions in chemical carcinogen (FANFT)-induced transitional cell carcinomas in rat urinary bladder. *Fed Proc* 1976; 35:476.
31. Alroy J, Teramura K, Miller A, Pauli BU, **Weinstein RS**, Davidsohn I: Blood group isoantigen in human invasive urothelial tumors. *Lab Invest* 1977; 36:329.
32. Banner BF, Alroy J, Pauli BU, **Weinstein RS**: Alterations of intercellular junctions in spontaneous acinic cell carcinoma of the canine pancreas. *Am J Path* 1977; 86:779.
33. Pauli BU, **Weinstein RS**, Alroy J, Friedell GH: Intramembrane particles in carcinogen induced bladder cancers. *Fed Proc* 1977; 36:677.
34. Pauli BU, **Weinstein RS**: Intercellular junctions in FANFT-induced transitional cell carcinomas in tissue culture. In situ freeze-fracture studies. *Proc Electron Micros Soc Am* 1977; 35:594-595.
35. **Weinstein RS**, Khodadad JK, Steck TL: Ultrastructural studies of the cytoplasmic surface of the human red cell membrane. *J Cell Biol* 1977; 75:234A.
36. Alroy J, **Weinstein RS**, Farrow GM, Davidsohn I: Blood group isoantigens in carcinoma in situ of the human urinary bladder. *Lab Invest* 1978; 38:331.
37. **Weinstein RS**, Khodadad JK, Steck TL: Proteolysis of the cytoplasmic surface of red cell membranes produced the intramembrane association of integral proteins. *J Cell Biol* 1978; 79:215A.
38. Alroy J, **Weinstein RS**: Assembly and topographical distribution of urinary bladder intraepithelial asymmetric unit membrane plaques. *J Cell Biol* 1978; 79:232A.
39. Pauli BU, Friedell GH, **Weinstein RS**: Chemical carcinogen FANFT induces an increase in intramembrane particle numerical densities in urinary bladder epithelium. *J Cell Biol* 1978; 79:227A.



40. Koo C, Pauli BU, Friedell GH, **Weinstein RS**: Induction of proliferative activity in urinary bladder epithelium by cystoscopy fluids. *Lab Invest* 1979; 40:265.
41. **Weinstein RS**, Khodadad JK, Marikovsky Y: Glycophorin is not a major component of human red cell intramembrane particles. *Fed Proc* 1979; 38:1432.
42. Bacus JW, **Weinstein RS**, Wilbanks GW: Problems in evaluation of approaches to automated cytology screening. Abstracts, 107th Annual Meeting of the Public Health Association, 1979.
43. Pauli BU, **Weinstein RS**: Development of occludens junctions in rat bladder carcinoma cells. *In Vitro* 1979; 15:228.
44. Alroy J, **Weinstein RS**, Moore DJ: Assembly of asymmetric unit membrane plaques in the Golgi apparatus of urinary bladder epithelium. *J Cell Biol* 1979; 83:2719.
45. **Weinstein RS**: Tissue blood group antigens as an indicator of the malignant potential of urinary bladder carcinomas. *Proc Inst Med Chicago* 1979; 32:184.
46. **Weinstein RS**, Khodadad JK, Steck TL: Freeze-fracture studies on the band 3 protein in situ. Abstracts, Alfred Benzon Symposium 14, Copenhagen, Denmark, 1980.
47. Alroy J, Pauli BU, **Weinstein RS**: Hyperplasia of Golgi complexes in human irradiated urinary bladder. *Lab Invest* 1980; 42:1.
48. Pauli BU, **Weinstein RS**, Memoli VA, Kuettner KE: The resistance of cartilage to tumor invasion. *Fed Proc* 1980; 39:641.
49. Koo CH, Pauli BU, Cohen SM, **Weinstein RS**: Angiogenesis during early stages of chemical carcinogenesis of rat bladder epithelium. *Fed Proc* 1980; 39:641.
50. Khodadad JK, **Weinstein RS**: Band 3 protein rich membranes in llama red blood cells. *J Cell Biol* 1980; 87:202a.
51. Pauli BU, **Weinstein RS**: Abnormalities in zonulae occludentes of rat urinary bladder. *J Cell Biol* 1980; 87:63a.
52. **Weinstein RS**, Khodadad JK, Steck TL: Band 3 protein is a tetramer in human red cell membranes. *J Cell Biol* 1980; 87:209a.
53. Marikovsky Y, **Weinstein RS**: Mechanism of T-cell rosetting by sheep red blood cells. Second International Congress on Cell Biology, Berlin, 1980.
54. Khodadad, JK, **Weinstein RS**: Comparative studies on the membranes of llama and human erythrocytes. *Proc Electron Micros Soc Amer* 1980; 38:788-789.

55. Doerschuk CM, **Weinstein RS**, Steck TL: The role of spectrin in erythrocyte intramembrane particle aggregation. *Proc Electron Microsc Soc Amer* 1980; 38:622-623.
56. Pauli BU, **Weinstein RS**: Correlations between cell surface protease activities and abnormalities of occludens junctions. *Lab Invest* 1981; 44:51a.
57. **Weinstein RS**, Coon JS, Summer JL, Ward R, Falor WH: Prognostic value of ABH(O) antigen deletion and marker chromosomes in human urinary bladder. *Lab Invest* 1981; 44:74a.
58. Khodadad J, **Weinstein RS**: Comparison of the association number of band 3 oligomers in llama and human red cell membranes. *Fed Proc* 1981; 40:484.
59. Marikovsky Y, **Weinstein RS**: Species specificity of E-rosetting. Lateral mobility of negative charge sites at the surface of sheep erythrocyte. *Proc 15th Meeting of Israel Society for Electron Microscopy* 1981; 23.
60. Kuszak JR, Rae JL, Pauli BU, **Weinstein RS**: Rotary replication of lens gap junctions. *J Cell Biol* 1981; 91:106A.
61. Khadadad JK, **Weinstein RS**: Mechanical properties of red cell membranes enriched with band 3. *J Cell Biol* 1981; 91:264A.
62. Coon JS, **Weinstein RS**, Summers JL: Combination of ABH and T antigen detection in prognosis of urinary bladder carcinoma. *Lab Invest* 1982; 46:15A.
63. **Weinstein RS**, Koo CH, Gregory SA, Wu KK, Coon JS: Congenital dyserythropoiesis and dysthrombopoiesis: A stem cell disease with unique red cell inclusions. *Lab Invest* 1982; 46:88A-89A.
64. Khodadad JK, **Weinstein RS**: Viscoelastic properties of llama and human red cell membranes. *Anat Rec* 1982; 202:97A.
65. Khodadad JK, **Weinstein RS**: The band 3-rich membrane of the llama erythrocyte: Cell shape and the organization of proteins. *J Cell Biol* 1982; 95:245A.
66. **Weinstein RS**: Submembrane filaments in human erythrocytes. *J Cell Biol* 1982; 95:264A.
67. Kuszak JR, Macsai MS, Rae JL, **Weinstein RS**: Spontaneous fusion of lens fiber cells in situ. *J Cell Biol* 1982; 95:11A.
68. Pauli BU, Marikovsky Y, **Weinstein RS**: Surface charge distribution in normal and transformed rat bladder epithelial cells in vitro. *J Cell Biol* 1982; 95:106A.
69. Khodadad JK, **Weinstein RS**: The shape stable llama red blood cells: studies on

- the concentration and the cytoplasmic domain of band 3 polypeptide. *Anat Rec* 1983; 205:98A.
70. Pauli BU, Marikovsky Y, **Weinstein RS**: Distribution and density of surface anionic charges in normal and malignant rat bladder epithelial cells. *Fed Proc* 1983; 42:518.
  71. Marikovsky Y, **Weinstein RS**: The revealing of the erythrocyte cytoskeleton in the electron microscope. *Ultramicroscopy* 1983; 11:331.
  72. Warth JA, Near K, **Weinstein RS**: Sequestrocytes: oxidant injury-induced erythrocytes in sickle cell anemia. *Blood* 1983; 62:62a.
  73. Coon JS, Pauli BU, **Weinstein RS**: Clonal heterogeneity of blood group related expression in human urinary bladder cancer. *Fed Proc* 1984; 43:596.
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  77. Coon JS, Flanagan MJ, **Weinstein RS**, Summers JL: Flow cytometry of paraffinized nuclei in urinary bladder transitional cell carcinoma. *J Urol* 1985; 133:127A.
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  80. Marikovsky Y, **Weinstein RS**, Skutelsky E, Danon D: Surface charge topography in ATP-depleted red blood cells. *Ultramicroscopy* 1985; 17:164-165.
  81. Coon JS, Watkins JR, Pauli BU, **Weinstein RS**: T-antigen variants of a human bladder carcinoma cell line differ in malignant phenotype. *J Cell Biol* 1985; 101:121A.
  82. **Weinstein RS**, Marikovsky Y, Banner BF, McLawhon RW, Pauli BU: Role of the red cell prostaglandin binding site in gastric "cytoprotection". *Lab Invest* 1986;

- 54:68A.
83. Coon JS, Pauli BU, **Weinstein RS**: Altered malignant phenotype of T-antigen variants of a human bladder carcinoma cell line. *Lab Invest* 1986; 54:13A.
  84. **Weinstein RS**, McLawhon RW, Marikovsky Y: Ethanol induces human red cell shape transformations and enhanced ligand-mediated agglutinability. *Fed Proc* 1986; 45:550.
  85. McLawhon RW, Marikovsky Y, **Weinstein RS**: Modulation of ligand-mediated human red cell agglutinability by prostaglandins. *Fed Proc* 1986; 45:456.
  86. Coon JS, Landay AL, Pauli BU, **Weinstein RS**: T-antigen variants of human bladder carcinoma cell line differ in tumorigenicity and NK lysis. *Fed Proc* 1986; 45:489.
  87. Couch MS, Pauli BU, **Weinstein RS**, Coon JS: Reversible modulation of tumor cell glycoconjugate expression by 13-cis retinoic acid. *Fed Proc* 1986; 45:686.
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