

RONALD S. WEINSTEIN, M.D.
CURRICULUM VITAE

DATE AND PLACE OF BIRTH: November 20, 1938 Schenectady, New York

WIFE: Mary D. Weinstein

CHILDREN: Katherine Eiliesh May 8, 1968
John Benjamin January 27, 1971

UNDERGRADUATE EDUCATION:

1956-1960 Union College (B.S.)

MEDICAL EDUCATION:

1960-1963 Albany Medical College
1962-1963 Massachusetts General Hospital (Post-Sophomore Research Fellow)
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, Mixter 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
- 2015- Professor, Department of Medical Imaging, University of Arizona College of Medicine

FELLOWSHIPS:

- 1959 Ford Foundation Special Fellow (Congressional Intern), U.S. Congress, Washington, D.C.
- 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 21st 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 Induction Award, US Distance Learning Association

2014 Connected Health Leadership Award, Partners Healthcare, Massachusetts General Hospital and Brigham and Woman's Hospital, Boston.

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

2014 Anna R. Graham, M.D., Pathology Service Award, UA 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
2017 - GlobalMed Advisory Board

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”, 5th 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”, 6th 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”, 50th 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 1st 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 21st Century” Harrington Lecturer University at Buffalo
- 3/25/04 “Why intelligence Matters: Case studies in Medical Innovation” AOA Lecture AΩA 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.” 7th 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.” 22nd 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”, 4th 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 100th 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 “21st 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) 6th 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” 4th 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 “5th Generation Telepathology System: The Whole Slide Image-Enhanced Dynamic Robotic Telepathology System” 11th European Congress on Telepathology Conference, Venice, ITALY
- 7/19/12 “Clinical Applications, ATP/SWTRC Webinar, Tucson, AZ
- 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”, 39th 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”, 40th 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
- 1/17/2014 “Telemedicine Reimbursement Parity-Introduction to Successful Legislation” Arizona Rural and Public Policy Forum, Phoenix, AZ
- 3/11/2014 “Cultivating a Robust American Indian & Alaskan native Healthcare Workforce”, Pathways Into Health 2014, Albuquerque, NM
- 3/26/2014 “Secrets to Success for Telemedicine and Telehealth Programs” iHT2 Institute for Health Technology Transformation Conference, San Francisco, CA
- 5/7/2014 “Implementing Telemedicine Best Practices in Integrated Care”, 2nd World Congress Annual Leadership Summit on Integrated Delivery Systems, San Diego, CA
- 5/18/2014 “Engaging Leadership and Making the Case for Telehealth” ATA Annual Conference, Baltimore, MD
- 5/18/2014 “Legal and Regulatory Issues Part 2: Lessons Learned and Advise from Telemedicine Pioneers” ATA Annual Conference, Baltimore, MD
- 5/19/2014 “Service Provider Showcase” Four Corners Telehealth Consortium Discussion Group, ATA Annual Conference, Baltimore, MD
- 5/20/2014 “Innovations in Remote Clinical Education” ATA Annual Conference, Baltimore, MD

- 7/11/2014 “Pathology Curriculum as a Tool to Improve National Medical Literacy”
Association of Pathology Chairs Conference, Boston, MA
- 9/19/2014 “Telemedicine and Sleep Medicine” Academy of Clinical Sleep Disorders
Disciplines (ACSDD) Conference, Scottsdale, AZ
- 11/7/2014 “Human Factors in Telepathology: The 21st Century Research Agenda”
International Academy of Digital Pathology (IADP), Boston, MA
- 3/30/2015 “Telemedicine-Back to the Future-A 50 Year Perspective” Northwest Regional
Telehealth Resource Center (NRTRC), Seattle, WA
- 5/8/2015 “Overview of Telemedicine, Telehealth and mHealth Applications” Summit
Healthcare via T-Health Institute, Phoenix, AZ
- 5/8/2015 “Frontiers in Telemedicine and Telehealth” 93rd Arizona Osteopathic Medical
Association Conference, Phoenix, AZ
- 12/10/15 “Interprofessional Education and Practice: Projects and Lessons Learned”
ATP/SWTRC Webinar, Tucson, AZ
- 4/5/16 “Flexner 3.0: Democratization of Medical Knowledge for the 21st Century.
General Pathology as a Gateway Course for K-12 Medical Science Curriculum”
Fred and Janet Sanfilippo Visiting Professor Lecture, Johns Hopkins Baltimore,
MD
- 4/28/16 “Telemedicine, Telehealth and Mobile Applications That Work: Opportunities
and Barriers’ ATP/SWTRC Webinar, Tucson, AZ
- 8/11/16 “Update on Telepathology and Digital Laboratory Networks” ATP/SWTRC
Webinar, Tucson, AZ
- 9/15/16 “Flexner 3.0 Democratization of Medical Science Education in the United
States” COIT Seminar Distinguished Speaker, College of Pharmacy University
of Arizona, Tucson, AZ
- 10/28/16 “Post-Flexner World: Democratization of Medical Knowledge for the 21st
Century” University of Colorado, College of Medicine, ClinPath Conference
Journal Club, Denver, CO
- 10/28/16 “Post-Flexner World: Democratization of Medical Knowledge for the 21st
Century” University of Colorado, College of Medicine, Visiting Professor Grand
Rounds presentation, Denver, CO
- 11/20/16 “Building Successful Telemedicine, Telehealth, and mHealth Programs:
Opportunities and Barriers” American College of Surgeons, Arizona Chapter
Invited Speaker, Tucson, AZ

- 11/30/2016 “Introduction to Telehealth/Telemedicine: Policy Trends and Considerations” 2016 Telehealth/Telemedicine Workshop Indian Health Service, Tribes & Urban Indian Programs Conference, Kansas City, MO
- 1/26/2017 “Clinical Indications for Tele-Urology Services over the Arizona Telemedicine Program Network” Telemedicine Stakeholders Meeting, Phoenix, AZ
- 1/30/2017 “Medical Science Distance Learning for K-12 Students in Arizona: Improving Health Literacy in Rural Communities” Arizona Universal Service Fund Workshop, Phoenix, AZ
- 3/1/2017 “Telemedicine and Telehealth in the Real World. Secrets for Success” F.H.E. NextFlex Conference, Palo Alto, CA
- 3/23/2017 “Telemedicine & The Telehealth Resource Centers: How & Why We Are Here For You” ATP/SWTRC Webinar, Tucson, AZ
- 5/12/2017 “Progress in Telemedicine: 1968-2017” International Forum of Telemedicine and Telehealth, Uruguay, South America (Video)
- 10/6/2017 “Update on Telemedicine 50-Year Progress Report” III Iberoamerican Congress of Telehealth and Telemedicine, Bogota, Columbia (Video)
- 10/26/2017 “eHealth: When Telehealth Becomes Tele-Everything” Arizona Hospital and Healthcare (AZAHA) 2017 Annual Leadership Meeting, Marana, AZ
- 1/18/2018 “Telemedicine and Telehealth in Arizona” Southern Arizona Hospital Alliance Board Meeting, Tucson and Safford, AZ
- 2/23/2018 “Ostomy Telehealth for Cancer Survivors: A Program of Collaborative Research” 15th Annual American Psychosocial Oncology Society (APOS) Conference, Tucson, AZ
- 3/15/2018 “Telemedicine, Telehealth and Connected Health: 21st Century Innovations in Healthcare Delivery” Harvard Club of Southern Arizona, Tucson, AZ
- 4/12/2018 “Advances in Telemedicine and Telehealth: New Models of Healthcare Delivery” 96th AZ Osteopathic Medical Association (AOMA) Conference, Scottsdale, AZ
- 5/19/2018 “Global Telemedicine and Telehealth. The Future of International Health Care in an ‘Internet-of-Everything: Virtual Reality’ World” Health Destinations Expo, Hermosillo, Mexico

REPRESENTATIVE GRANTS AND CONTRACTS (1990-Present)

- 1990-1996 Pathology: Cytogenetic Oncology Program Project NCI PO01CA41183, (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 – 2012 “Southwest Telehealth Resource Center” (Co-PI) HRSA, \$1,137,950
- 2012 – 2015 “Southwest Telehealth Resource Center” (Co-PI) HRSA, \$1,308,250
- 2015 - 2017 “Southwest Telehealth Resource Center” (PI) HRSA \$ 863,445
- 2016 - 2020 “Ostomy Patient Education” (Co-PI) PCORI \$165,234
- 2017 - 2019 “Lily/ECHO grant” (Co-PI) \$17,700
- 2017 – 2020 “Southwest Telehealth Resource Center” (PI) HRSA \$1,330,000

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- 2013 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 Division
- 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

2014- Northern Arizona Telemedicine Alliance (NATA)

2014 International Advisor, International Academy for Digital Pathology 2014 Congress, Harvard Medical School, Boston, Mass.

2015- Member, AHEC Advisory Commission

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 College

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
2010-2013 Member, Inter-professional Education Steering Committee, University of Arizona College of Medicine
2015- Member, AHEC Advisory Commission
2015-2016 Academic Program Reviewer (APR), Family and Community Medicine (DFCM)

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 Medical College and Rush-Presbyterian-St. Luke's Medical Center

1984-1985 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
- 2015- Member, Arizona-Pride, Internal Advisory Committee
- 2015- Member, Arizona AHEC Program Advisory Commission

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)
- 2012-2015 BASIS schools, Tucson, Mechanisms of Disease Course (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 Reseach, 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 (Vice Chair, 2013-2017)

7. iCons in Medicine Foundation (2005-2013)

BIBLIOGRAPHY

Professional Publications - Total = 588

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 Microsc Soc Am* 1970; 28:106-107.
15. McNutt NS, **Weinstein RS**: Useful resolution standards for freeze-cleave and etch replication techniques. *Proc Electron Microsc 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 isococyte-echinocyte shape transformation to red cell surface charge. *Proc Electron Microsc 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 Microsc 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 Micros 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.
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