

ARTHUR K. BALIN, MD, PhD, FACP
FAACS, FAAD, FACMMSCO, FASDS, FASLMS, FASDP, FCAP, FASCP
FAAA, FRSM, FACN, FNACB, FFRBM, AGSF, FGSA, FMMS, FPCP

Curriculum Vitae

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Born: June 17, 1948; Philadelphia, Pennsylvania

Education

1966 Graduate, The Haverford School, Haverford, PA
 1970 B.A., Chemistry with Highest Distinction, Northwestern University, Evanston, IL
 1974 M.D., University of Pennsylvania School of Medicine, Philadelphia, PA
 1976 Ph.D., Department of Biochemistry, University of Pennsylvania Graduate School of Arts and Sciences, Philadelphia, PA

Specialty Board Certification

1977 Diplomate, National Board of Medical Examiners
 1979 Board Certified, Internal Medicine, American Board of Internal Medicine
 1980 Board Certified, Dermatology, American Board of Dermatology
 1981 Board Certified, Dermatopathology, American Board of Pathology and American Board of Dermatology
 1988 Board Certified, Geriatric Medicine, American Board of Internal Medicine
 1991 Board Certified, Mohs Micrographic Surgery and Cutaneous Oncology,
 American Board of Mohs Micrographic Surgery and Cutaneous Oncology
 1996 Board Certified, Dermatologic Cosmetic Surgery, American Board of Cosmetic Surgery
 1998 Board Certified, Anti-Aging Medicine, American Board of Anti-Aging Medicine
 1999 Board Re-Certified, Geriatric Medicine, American Board of Internal Medicine
 2009 Board Re-Certified, Geriatric Medicine, American Board of Internal Medicine

Professional Licensure

1977 Medical Physician and Surgeon, State of Pennsylvania
 1977 Controlled Drug License, U.S. Department of Justice
 1979-2012 Medical Physician and Surgeon, State of Connecticut
 1981 Medical Physician and Surgeon, State of New York
 1982-97 Clinical Laboratory Director, Dermatopathology, City of New York
 1989-97 Clinical Laboratory Director, Dermatopathology, State of New York
 1989 Medical Physician and Surgeon, State of Texas
 1991 Clinical Laboratory Director, State of Pennsylvania
 2005 Physician Acupuncturist, State of Pennsylvania
 2006-11 Medical Physician and Surgeon, State of Delaware
 2006-12 Medical Physician and Surgeon, State of Maryland
 2006-11 Medical Physician and Surgeon, State of New Jersey

Academic Appointments

2006-11	Clinical Professor, Lankenau Institute for Medical Research, Jefferson Health System, Philadelphia, PA
2000-06	Clinical Senior Investigator, Lankenau Institute for Medical Research, Jefferson Health System, Philadelphia, PA
1996-99	Clinical Professor, Department of Dermatology, MCP♦Hahnemann School of Medicine
1994-99	Research Professor, Department of Pathology and Laboratory Medicine, MCP♦Hahnemann School of Medicine
1989-90	Fellow in Mohs Micrographic Surgery, Dermatologic Surgery, and Cutaneous Oncology, Baylor University Medical Center, Dallas, TX
1989-90	Adjunct Assistant Professor, The Rockefeller University, New York, NY
1981-89	Assistant Professor, The Rockefeller University, New York, NY
1981-89	Adjunct Assistant Professor of Medicine (Dermatology), Cornell University Medical College, New York, NY
1980-81	Resident in Dermatopathology, Department of Pathology, Yale-New Haven Hospital, New Haven, CT
1978-80	Resident, Department of Dermatology, Yale-New Haven Hospital, New Haven, CT
1976-78	Resident, Department of Internal Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
1976-78	Associate Scientist, The Wistar Institute of Anatomy and Biology, Philadelphia, PA
1974-76	Pre-doctoral Trainee, The Wistar Institute of Anatomy and Biology, Philadelphia, PA

Professional Appointments

1998	Medical Director, The Sally Balin Medical Center, Media, PA
1996	Crozer-Chester Medical Center, Upland, PA, Division of Medicine/Dermatology, Courtesy Staff
1994-98	Member, Allegheny Health, Education and Research Foundation Center on Aging, Philadelphia, PA
1994-98	Member, Center for Gerontological Research, Medical College of Pennsylvania, Philadelphia, PA
1993-95	Crozer-Chester Medical Center, Upland, PA, Division of Medicine /Dermatology, Active Staff
1993-2008	Executive Director, American Aging Association, Chester, PA, Media, PA
1992-	Riddle Memorial Hospital, Media, PA Division of Medicine/Dermatology, Active Medical Staff
1990-	Dermatology, Cosmetic Skin Surgery, Mohs Micrographic Surgery. Private Medical Practice, Chester, PA, Media, PA
1989-94	Staff Surgeon, Dallas Surgi Center, Presbyterian III, Dallas, TX
1988-94	Consultant, Bureau of Consumer Protection, Federal Trade Commission, United States of America
1986	President, Longevity Achievement Foundation, Chester, PA, Media, PA
1981-90	Dermatology and Dermatologic Surgery, Chester, PA (Saturdays and Sundays)
1981-89	Associate Physician, The Rockefeller University Hospital, New York, NY
1981-89	Assistant Attending Physician, The New York Hospital, New York, NY
1981-89	Dermatology & Dermatologic Surgery, Cornell Dermatology Consultants, The New York Hospital, NY
1979-81	Dermatologist, The Connecticut Hospice, New Haven, CT
1973-75	Externship, University of Pennsylvania Student Health Service, Dr. Paul Schrodie, Director
1967-69	Research Assistant in Steroid Biochemistry under the direction of Joseph C. Touchstone, Ph.D., Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine (summers)

Commercial Appointments:

1998-	President, Whole Remedy Incorporated, Media, PA
1998-2004	Scientific Advisory Board, Cutanix, Sunnyvale, CA
1997-2010	Board of Directors, Tru Tek, Inc., West Chester, PA
1995-	President, Universal Surgical Instrument Reconditioning Company, Media, PA
1995-	President, Longevity Achievement Center, Inc., Media, PA
1986-	President, Longevity Research Incorporated, Chester, PA, Media, PA

Scholarships and Fellowships

1981-84	The John A. and George L. Hartford Fellowship
1980	Scholarship, American Society for Dermatologic Surgery, Inc.
1970-76	Trainee of the National Institute of Health Medical Scientist Training Program at the University of Pennsylvania School of Medicine

Awards, Honors and Membership in Honorary Societies

1967	Phi Eta Sigma
1969	Phi Beta Kappa
1970	Graduate, Northwestern University with Highest Distinction
1972	Alpha Omega Alpha
1974	Mosby Scholarship Award, University of Pennsylvania School of Medicine
1975	Wilton H. Earle Award, Society for In Vitro Biology (formerly Tissue Culture Association)
1976	Society for the Sigma Xi
1994	Outstanding Achievement in Life Sciences-Advances in Clinical Medicine Award, American Academy of Anti-Aging Medicine
1998	<u>The Life of the Skin</u> selected by Amazon.com as one of the ten best medical/health books of the year (1997)
1998	<u>The Life of the Skin</u> chosen as a Literary Guild and Doubleday Book Club selection
2001	Top Doc, One of Philadelphia's Top Doctors, Dermatology, <u>Main Line Today</u> , December, 2001
2006	Appreciation Award, The American Society of Dermatopathology for over 20 years as Curator of the Reference Slide Library.
1992-2008	Appreciation Award, The American Aging Association, Executive Director (1992-2002), Treasurer (1992-2008)
1998-2008	Certificate of Participation from American Academy of Dermatology for Melanoma/Skin Cancer Screening Program
2009	Top Doc, One of Philadelphia's Top Doctors, Dermatology, <u>Main Line Today</u> , December, 2009
2009	The American Aging Association honors Arthur K. Balin with the Arthur Balin Plenary session at their annual meetings, which will preferably be a medical oriented session.
2011	Biographical Listing, Who's Who in America 2011, 65 th Edition, Marquis Who's Who, New Providence, NJ 07974
2012	Top Doc, One of Philadelphia's Top Doctors, Dermatology, <u>Main Line Today</u> , December, 2012
2014	Top Dermatologist in Pennsylvania, HealthTap, Summer 2014
2014	Most Influential Doctor in Pennsylvania, First Place, HealthTap, Summer, 2014
2014	Lifetime Membership, American College of Mohs Micrographic Surgery, Summer 2014
2015	Honorary Lifetime Membership Award, The American Society of Dermatopathology, Fall 2015
2016	Biographical Listing, Who's Who in America 2016, Platinum 70 th Edition, Marquis Who's Who, New Providence, NJ 07974

Continuing Medical Education

American Medical Association Physicians Recognition Award with Commendation (valid until 10/01/17)
 American Academy of Dermatology Continuing Medical Education Award (valid until 10/31/17)
 Quality Control Program in Dermatopathology, American Society of Dermatopathology
 Advanced Cardiac Life Support, American Heart Association (valid until 4/2016)

Membership in Professional and Academic Societies

2008--	American Academy of Aesthetic Medicine
1989--	American Academy of Anti-Aging Medicine
2004--	American Academy of Medical Acupuncture
1987--	American Academy of Cosmetic Surgery, Fellow
1980--	American Academy of Dermatology, Fellow National Institute of Aging Task Force (1983-85)
1980--	American Aging Association, Fellow Board of Directors (1985-2010) President Elect (1986-1987) President (1987-1988) Past President (1988-1989) Chairman, Board of Directors (1992-1993) Treasurer (1992-2008) Executive Director (1992-2008)
1987--	American Association for Clinical Chemistry
1970--	American Association for the Advancement of Science
2005--	American Association for Health Freedom
1970--	American Chemical Society
1999--2016	American College for Advancement in Medicine

1986--	American College of Clinical Gerontology, Board of Directors (1986-present)
1986--	American College of Nutrition, Fellow
1991--	American College of Mohs Surgery, Fellow- 2014 Lifetime Membership
2008--	American College of Phlebology
1978--	American College of Physicians, Fellow
1982--	American Federation for Aging Research
1980--	American Federation for Clinical Research
1976--	American Geriatrics Society, Fellow
	Committee to Review Fellowship Applications (1998-2010)
1985--	American Institute of Biological Sciences
1970--	American Medical Association
1974--2009	American Oil Chemists Society
1990-	American Preventative Medicine Association
1986--2009	American Public Health Association
1997--	American Society for Biochemistry and Molecular Biology
1995--	American Society for Dermatology, Fellow
2007--	American Society for Investigative Pathology
1995--	American Society for Laser Medicine & Surgery
1984--	American Society for Microbiology
1995--2008	American Society for Mohs Histotechnology
1980--	American Society for Photobiology
2009--	American Society of Clinical Hypnosis
1992--	American Society of Clinical Pathology, Fellow
1980--	American Society of Dermatologic Surgery, Fellow
1987—2008	American Society of Hair Restoration Surgery
1987—2008	American Society of Liposuction Surgery
1986--	American Society on Aging
1985--	British Society for Research on Aging
1981--	College of American Pathologists, Fellow
1989--1992	Dallas Dermatological Society
1978--	Delaware County Medical Society
1992--2008	Dermatology Nurses' Association
2002--	European Society for Cosmetic and Aesthetic Dermatology
1984--	Federation of American Societies for Experimental Biology
1974--	Gerontological Society of America, Fellow
2011--	Hypnosis Training Academy, Hypnosis Trainer
2013	Hypnosis Training Academy, Alumni
1990--	Intraamerican Cosmetic Plastic & Reconstructive Surgery
2000--	International Academy of Cosmetic Dermatology
1985--	International Academy of Pathology
1985--	International Association of Biomedical Gerontology Board of Directors (1986-2000)
2010	International Association of Professional Conversational Hypnosis – Master of Conversational Hypnosis
2011--	International Association of Professional Conversational Hypnosis – Hypnosis Trainer
2011--	International Association of Professional Conversational Hypnosis – Hypnosis Examiner
2012--	International Association of Professional Conversational Hypnosis – Certified Member
2012	International Association of Professional Conversational Hypnosis – Ericksonian Hypnotherapist
1999--	International College of Integrative Medicine (formerly Great Lakes College of Clinical Medicine)
2003--2008	International Hyperbarics Association
2009--	International Society for Biological and Environmental Repositories
2005--	International Society for Biophysics and Imaging of the Skin
1981--	International Society for Dermatologic Surgery
2006--	International Society for Stem Cell Research
1995--	International Society of Cosmetic Laser Surgeons, Fellow
1994--	International Society of Hair Restoration Surgery
2006--	International Society of Lipolysistherapy
1981--	International Society of Tropical Dermatology
1995--	Molecular Medicine Society, Fellow
2001--	National Academy of Clinical Biochemistry, Fellow

1981--	National Society for Histotechnology
2007--	Network Globalhealth
1985--1990	New York State Society of Dermatology
1988--	Society for Free Radical Biology and Medicine, Fellow (formerly Oxygen Society)
2003--2009	Panamerican Society for Pigment Cell Research
1991--	Pennsylvania Academy of Dermatology
2005--	Pennsylvania Chapter of the American Academy of Medical Acupuncture
1978--	Pennsylvania Medical Society
1988--	Pennsylvania Regional Association of Dermatopathologists
1996--	Philadelphia College of Physicians, Fellow
1978--	Radiation Research Society
1992--	Royal Society of Medicine, Fellow Section of Dermatology Section of Pathology Section of Geriatrics
1986--	Society for Analytical Cytology
1976--	Society for Experimental Biology and Medicine
1985--	Society for Free Radical Research
1980--	Society for Investigative Dermatology
1972--	Society for In Vitro Biology (formerly Tissue Culture Association) Nominating Committee (1986-88)
1985--2008	Society for Pediatric Dermatology
1983--	Society of Cosmetic Chemists
1980--	The American Society for Cell Biology
1982--	The American Society of Dermatopathology, Fellow – Honorary Lifetime Membership Curator, Histopathologic Reference Slide Collection for Dermatopathology, (1984-present) The Committee on Continuing Education and Research, (1986-1991) Chairman, Committee on Continuing Education and Research, 1988
1985--	The Dermatologic Society of Greater New York
2002--	The Endocrine Society
1982--	The International Society of Dermatopathology
1984--	The International Oculoplastic Society
1988--	The International Pigment Cell Society
1976--	The New York Academy of Sciences
1984--	The Oculoplastic Fellowship Society of New York
2000--	The Photomedicine Society
1995--	The RNA Society

Grants Awarded

1981-84	Principal Investigator, The John A. and George L. Hartford Fellowship
1985-90	Principal Investigator, National Institute of Aging Academic Award
1985-89	Principal Investigator, National Institute of Aging - 1 RO1 AG04993-01A1, "Does Oxidative Damage Contribute to the Aging Process?"
1986-87	Principal Investigator, University of Texas Health Sciences Center, "Antioxidant Defenses in Alzheimer's Disease."
1988	Co-Investigator, National Institute of Aging, Conference Grant. "Symposium on Biology of Cutaneous Aging."
1988	Principal Investigator, Arel Pharmaceuticals, Inc. "The effect of Live Yeast Cell Derivative on the growth of Human Fibroblasts in culture."

Contracts Awarded

1986-87	Principal Investigator, A double-blind multi-investigator study to evaluate and compare the safety and efficacy of Retin-A 0.05% cream and placebo cream in the treatment of actinic keratosis. Ortho Pharmaceutical Corporation.
1986-88	Principal Investigator, An open long-term study to assess the safety and efficacy of Retin-A 0.05% and Retin-A 0.1% cream in the treatment of actinic keratosis and the reversal of photoaged skin. Ortho Pharmaceutical Corporation.
1991-93	Principal Investigator, A double-blind, randomized, comparative, multicenter study of CI-983 versus

- 1995 Cephalexin in the treatment of skin and skin structure infections. Parke-Davis Pharmaceutical Research. Principal Investigator, A double-blind pharmacokinetic comparative study of two concentrations: 1% and 3% Bucladesine Sodium ointment (oT-5621) in patients with venous stasis ulcers, Daiichi Pharmaceutical Corp.
- 1995 Principal Investigator, A comparative study of the safety efficacy of calcium mupirocon cream with cephalixin in the treatment of secondarily infected open wounds. Smith Kline, Beecham Pharmaceuticals
- 1998-99 Principal Investigator, Tap Holdings, Inc., "Comparative Safety and Efficacy of Cefditoren Pivoxil and Cefadroxil Monohydrate in the Treatment of Patients with Uncomplicated Skin or Skin Structure Infection."
- 2000-01 Principal Investigator, Bristol-Myers Squibb, "A Randomized, Double-Blind, Multicenter, Comparative Study of BMS-284756 versus Amoxicillin/Clavulanate in the Treatment of Uncomplicated Skin and Soft Tissue Infections."
- 2002 Principal Investigator, Galderma R & D, Inc., "Evaluation of the Efficacy and Safety of Twice Daily Application of Calcitriol 3µg/g Ointment and its Vehicle, in the Treatment of Chronic Plaque Psoriasis."
- 2002-03 Principal Investigator, Atrix Laboratories, Inc., "A 12-Week, Multicenter, Double-Blind, Randomized, Parallel Design Study of 5% Dapsone Topical Gel and Vehicle Control in Patients with Acne Vulgaris."
- 2002-03 Principal Investigator, Galderma Laboratories, L.P., "A Multicenter, Community-Based Trial to Assess the Efficacy and Safety of Tri-Luma™ Cream in the Treatment of Facial Melasma."
- 2003 Principal Investigator, GlaxoSmithKline, "A Randomized, Double Blind, Placebo Controlled, Parallel Group Study to Assess the Safety and Efficacy of Rosiglitazone Maleate in the Treatment of Chronic Plaque Psoriasis."
- 2003-04 Principal Investigator, Dow Pharmaceuticals, "A Multi-Center, Investigator-Blind Clinical Trial to Assess the Safety and Efficacy of Metronidazole Gel 1% as Compared to Metronidazole Gel Vehicle and Noritate Cream 1% in the Treatment of Rosacea."
- 2004 Principal Investigator, Galderma R & D, "A Multicenter, Randomized, Double-Blind, Parallel Group Study to Evaluate the Safety and Efficacy of a Fixed Combination of Adapalene 0.1% and Benzoyl Peroxide 2.5% (Adapalene and Benzoyl Peroxide Topical Gel) Gel Compared to Each Monad and Topical Gel Vehicle in Subjects with Acne Vulgaris."
- 2007 Principal Investigator, Clinsys Clinical Research, Inc., "A Multicenter, Double-Blind, Vehicle-Controlled Study Comparing Imiquimod Cream 5% (Apotex, Inc.) to Aldara Cream 5% (3M Pharmaceuticals, U.S.) and Aldara Cream 5% (3M Pharmaceuticals, Canada) in the Treatment of Actinic Keratosis."
- 2007 Principal Investigator, Dermtech International, Inc., "Early Diagnosis of Melanoma Using Expression Profiling and Non-Invasive Sampling of Skin Cells."

Editorial Duties

- 1993-99 Editor-in-Chief, **AGE**, Journal of the American Aging Association
- 2000-02 Editor-in-Chief, **Journal of the American Aging Association**, American Aging Association
- 1985-93 Editorial Board, **AGE**, Journal of the American Aging Association
- 1986-90 Scientific Advisory Board, **LONGEVITY**, OMNI Publications
- 1987-89 Reviewing Editor, **IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY**, Journal of the Society for In Vitro Biology
- 1987-92 Editorial Board, **Cutaneous Aging and Cosmetic Dermatology**, MaryAnn Liebert Publishers
- 1987-88 Editorial Board, **American Association of Retired Persons Pharmacy Service**. Prescription Drug Handbook
- 1988-1991 Editor, **Dermatopathology Feature**, The Journal of Dermatologic Surgery and Oncology
- 1989-2000 Editorial Board, **Cosmetic Dermatology**
- 1991-1999 Editorial Board, **Journal of Applied Nutrition**
- 1991-1999 Editorial Board, **Journal of Optimal Nutrition**
- 1998-2003 Editorial Board, **Journal of Anti-Aging Medicine**, MaryAnn Liebert Publishers
- 2003- Editorial Board, **Dermatology Coding Alert**, The Coding Institute
- 2004- Editorial Board, **Practical Dermatology**, Avondale Medical Publications
- 2004- Editorial Board, **Journal of Rejuvenation Research**, Mary Ann Liebert Publishers

Ad Hoc Reviewer for Granting Agencies

Department of Health, Education, and Welfare: Public Health Service; National Institute of Health
 Department of Health and Human Services: Public Health Service; National Institute of Health
 Veteran's Administration
 National Science Foundation
 The Paul Glenn Foundation

American Federation for Aging Research
American Geriatrics Society

Ad Hoc Reviewer for Journals

AGE, Journal of the American Aging Association
American Journal of Physiology
Archives of Dermatology
Cell Biochemistry and Biophysics
Cloning and Stem Cells
European Journal of Cancer
Experimental Gerontology
Free Radical Biology and Medicine
Growth, Development and Aging
In Vitro Cellular and Developmental Biology
Journal of Cellular Physiology
Journal of Gerontology
Journal of the American Academy of Dermatology
Laboratory Investigation
Mechanisms of Ageing and Development
Molecular Medicine
Proceedings of the National Academy of Sciences
The American Journal of Dermatopathology
The Journal of Dermatologic Surgery and Oncology
The Journal of Investigative Dermatology

Special Conferences and Workshops

1973 Fifth Annual Summer Course on the Biology of Aging (NIH), Duluth, MN
1974 Gordon Research Conference on the Biology of Aging, Tilden, NH
1974 Philadelphia Symposium of Aging, Valley Forge, PA
1976 Gordon Research Conference on the Biology of Aging, Santa Barbara, CA
1977 Gordon Research Conference on the Biology of Aging, Plymouth, NH
1978 The Use of Differentiated Cells in Culture for Aging Research Workshop, Inst. for Medical Research, Camden, NJ
1979 Gordon Research Conference on the Biology of Aging, Santa Barbara, CA
1979 New York Hair Transplant Symposium, Am. Soc. for Dermatologic Surgery, New York, NY
1980 Gordon Research Conference on the Biology of Aging, Andover, NH
1980 Gross and Microscopic Pathology of the Skin, The Dermatopathology Foundation
1981 Gordon Research Conference on Epithelial Differentiation, Tilton, NH
1981 Dermatopathology Workshop, University of Massachusetts Medical School, Worcester, MA
1981 Practical Skin Pathology, Grossingers, NY
1981 The 23rd Annual Postgraduate Course in Dermal Pathology, University of California, Irvine, CA
1981 Dermabrasion, Chemical Peel and Excision Surgery Symposium, Northwestern University, American Society of Dermatologic Surgery, Chicago, IL
1982 Dermatopathology: A Practical Self-Assessment Course, U of Medicine and Dentistry of New Jersey, Newark, NJ
1982 First Conference on Radioprotectors and Anticarcinogens, National Bureau of Standards, Gaithersburg, MD
1983 Microbial and Molecular Genetics. Biotechnical Advances, Harvard Medical School, Boston, MA
1983 Molecular Biology Now and Tomorrow - Thirty Years of DNA. Nature Conference, Boston, MA
1983 Gordon Research Conference on the Biology of Aging, Plymouth, NH
1984 Current Concepts of Dermabrasion, Chemical Peel, Collagen, Silicone, Tulane University, New Orleans, LA
1984 Oculoplastic Surgical Dissection Course, The International Oculoplastic Society, New York, NY
1984 Cutaneous Laser Surgery, Cooper Laser Sonics, Inc., University of California School of Medicine, San Diego, CA
1984 Superficial Anatomy and Cutaneous Surgery for Dermatologists, University of California School of Medicine, San Diego, CA
1984 26th Annual Postgraduate Course in Dermal Pathology, University of Pennsylvania, Philadelphia, PA
1985 Recombinant DNA Methodology: The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC

- 1985 Hybridoma/Monoclonal Antibody Production, The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC
- 1985 Gordon Research Conference, Oxygen Radicals in Biology and Medicine, Santa Barbara, CA
- 1985 Workshop on Oxygen Radicals, Pathology and Aging, University of California, San Diego, CA (Faculty)
- 1985 Superficial Anatomy and Cutaneous Surgery for Dermatologists, University of California School of Medicine, San Diego, CA
- 1985 Receptor Binding Techniques: The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC
- 1985 Methods in Oligonucleotide Site Directed Mutagenesis: The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC
- 1986 Free Radicals in Biology and Medicine: Ischemia/Reperfusion Conference, Pt. Clear, AL (Faculty)
- 1986 Face Lift Surgery and Ancillary Procedures Seminar: The American Academy of Facial Plastic and Reconstructive Surgery, Indianapolis, IN
- 1986 Lipo-Suction Surgery Workshop, Houston, TX
- 1986 Modern Biological Theories of Aging, Mount Sinai School of Medicine, New York, NY
- 1986 Gordon Research Conference on the Biology of Aging, Plymouth, NH
- 1986 Oxygen Free Radicals and Tissue Injury, University of Michigan, Ann Arbor, MI (Faculty)
- 1986 First World Congress on Dermabrasion, Chemical Peel, Lipo-Suction and Soft-Tissue Augmentation, American Academy of Cosmetic Surgery, New Orleans, LA
- 1986 36th Annual Symposium on the Biology of the Skin, "Molecular Basis of Nutritional Dermatoses", The Cutaneous Biology Foundation, Glenden Beach, OR (Faculty)
- 1986 Second Live Workshop on the Newman System of Lipo-Suction Fat-Transfer Implants, Philadelphia, PA
- 1987 Oxygen Radicals in Cancer and Aging, University of California, Berkeley, CA
- 1987 Gordon Research Conference on Oxygen Radicals in Biology and Medicine, Miramar, CA
- 1987 International Congress for Hair Replacement Surgery, American Academy of Cosmetic Surgery, Los Angeles, CA
- 1987 4th International Congress on Oxygen Radicals, La Jolla, CA
- 1987 Superficial Anatomy and Cutaneous Surgery for Dermatologists, University of California School of Medicine, San Diego, CA
- 1987 Recombinant DNA Techniques Workshop, Bethesda Research Laboratories, Frederick, MD
- 1987 Cryostat and Microscopically Controlled Surgical Workshop, University of California, San Diego, CA (Faculty)
- 1988 Intensive Course in Geriatric Medicine and Board Review, American College of Physicians, UCLA School of Medicine, Beverly Hills, CA
- 1988 Review Course for the 1988 ABFP/ABIM Geriatric Medicine Examination The Mount Sinai Medical Center, New York, NY
- 1988 Gordon Research Conference on the Biology of Aging, Ventura, CA
- 1988 3rd World Congress on Cancers of the Skin, Houston, TX
- 1988 Biology of Human Skin Aging, National Institute on Aging and Jefferson Medical School, Philadelphia, PA (Co-Director, Faculty)
- 1988 Symposium on Advanced Dermatology Surgery, American Society of Dermatologic Surgery, New York, NY
- 1989 4th Combined Skin Pathology Course, Denver, CO
- 1990 Superficial Anatomy and Cutaneous Surgery, University of California School of Medicine, San Diego, CA (Faculty)
- 1990 7th Mohs micrographic surgical workshop, The Skin Cancer Foundation, Buena Vista, FL (Faculty)
- 1990 Mohs micrographic surgery conference, Madison, WI (Faculty)
- 1990 10th Annual Cosmetic Dermatology Symposium, Beth Israel Medical Center, New York, NY
- 1990 Environmental and Nutritional Influences on Cancer and Aging, American Health Foundation, New York, NY
- 1990 5th Combined Skin Pathology Course, Newport Beach, CA
- 1991 10th World Congress on Liposculpture, American Academy of Cosmetic Surgery, Philadelphia, PA
- 1991 8th Mohs micrographic surgical workshop, The Skin Cancer Foundation, Tucson, AZ (Faculty)
- 1991 Malignant melanoma workshop. Armed Forces Institute of Pathology, Washington, DC
- 1991 Polymerase Chain Reaction: The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC
- 1991 Immunocytochemistry: The Center for Advanced Training in Cell and Molecular Biology, Catholic University of America, Washington, DC
- 1991 6th Combined Skin Pathology Course, Chicago, IL
- 1992 7th Combined Skin Pathology Course, Denver, CO

- 1992 Mohs Micrographic Surgery Conference, Madison, WI (Faculty)
- 1993 10th Annual Mohs Micrographic Surgery Workshop. The Skin Cancer Foundation (Faculty)
- 1993 1st Annual Tumescant Technique Liposuction Workshop, Loveland, CO
- 1993 American College of Physicians Annual Meeting, Washington, DC
- 1994 Klein Hands-On Tumescant Liposuction Course, San Juan Capistrano, CA
- 1994 11th Annual Mohs Micrographic Surgery Workshop. The Skin Cancer Foundation, Cancun, Mexico
- 1994 Hair Replacement Surgery Symposium. American Academy of Facial Plastic and Reconstructive Surgery, Birmingham, AL
- 1995 Medical Alliance Ultra Pulse CO₂ Laser Training Program, Philadelphia, PA
- 1995 Practical Use of the CO₂ Laser for Facial Resurfacing and Periorbital Incisional Surgery, The International Society of Cosmetic Laser Surgeons, Marina del Rey, CA
- 1995 Preceptorship with Tina Alster, M.D., Resurfacing Using Ultra Pulse CO₂ Laser, Washington, D.C.
- 1995 Preceptorship with Sterling Baker, M.D., Upper Lid Blepharoplasty and Transconjunctival lower lid Blepharoplasty Using Ultra Pulse CO₂ Laser, International Society of Cosmetic Laser Surgeons, Oklahoma City, OK
- 1995 Photocarcinogenesis, Mechanisms, Models and Human Health Implications, Case Western and University Hospital of Cleveland, Washington, D.C.
- 1995 Endoscopic Forehead and Brow Lift Workshop, American Academy of Cosmetic Surgery and University of Chicago, Chicago, IL
- 1995 World Congress on Facial Rejuvenation, American Academy of Cosmetic Surgery, Washington, D.C.
- 1995 International Symposium on Photoaging, Phila., PA
- 1995 48th Annual Scientific Meeting Gerontological Society of America, Los Angeles, CA
- 1996 Endoscopic Forehead Brow Lift and Blepharoplasty, American Academy of Cosmetic Surgery, and the University of Chicago, Chicago, IL
- 1996 World Congress on Liposuction Surgery, American Society of Lipo-Suction Surgery and the American Academy of Cosmetic Surgery, San Francisco, CA
- 1996 Hair Symposium 1996, The New York Experience, American Society of Hair Restoration Surgery, New York, NY
- 1996 Advances in Gene Amplification and Detection, Cambridge Healthtech Institute, McLean, VA
- 1996 Sixth Mohs Surgery Conference and Workshop, faculty, University of Wisconsin Medical School, Madison, WI
- 1996 Botulinum A to Z, A Complete Educational Symposium, Premier Education Group, Dallas, TX
- 1996 Hands-On Hair Restoration Surgery Workshop with Dow Stough, M.D., Hot Springs, AR
- 1996 American Academy of Anti-Aging Medicine, Las Vegas, NV
- 1997 Medical Alliance Laserscope Aura with Starpulse Training Program, Washington, D.C.
- 1997 First Annual International Symposium on Aging Skin, San Diego, CA
- 1997 Molecular and Genetic Strategies for Treatment of Age-Related Diseases, Seattle, WA
- 1997 American College for the Advancement of Medicine, (Longevity Workshop), Anaheim, CA (faculty)
- 1997 Fifth Annual Skin Science Symposium, New Paltz, NY (faculty)
- 1998 Medical Alliance Erbium Laser Workshop, Philadelphia, PA
- 1998 American College for the Advancement of Medicine, (Longevity Workshop), Fort Lauderdale, FL (faculty)
- 1998 International College of Advanced Longevity Medicine "Quality of Life and Longevity Medicine" Basic Training Workshop, Las Vegas, NV (faculty)
- 1998 International College of Advanced Longevity Medicine "Quality of Life and Longevity Medicine" Advanced Training Workshop, Las Vegas, NV (faculty)
- 1998 Seventh Mohs Surgery Conference and Workshop, University of Wisconsin Medical School, Madison, WI
- 1998 World Congress on Liposuction Surgery, American Academy of Cosmetic Surgery, Pasadena, CA
- 1998 American College for the Advancement of Medicine, (Longevity Workshop), Phoenix, AZ (faculty)
- 1999 16th Annual Intensive Course in Geriatric Medicine, Santa Monica, CA
- 1999 Advanced Photo Rejuvenation Training Workshop, New York, NY
- 2000 33rd International Congress of Great Lakes College of Clinical Medicine, Atlanta, GA
- 2000 Face Lift and Neck Contouring Surgery, University of Chicago, Chicago, IL
- 2000 Anti-Aging Medicine 3rd International Symposium, Newark, NJ
- 2000 American College for the Advancement of Medicine, (Mercury Toxicity Workshop), Dallas, TX
- 2000 Atlantic Dermatologic Conference, Philadelphia, PA
- 2000 American Academy of Facial Plastic & Reconstructive Surgery Fall Meeting, Washington, D.C.
- 2000 American Academy of Cosmetic Surgery, World Congress in Liposuction Surgery, Dearborn, MI

- 2000 Suture Suspension Procedures: Neck Recontouring and Mid-Face, Vincent Giampapa, M.D., Newark, NJ
- 2000 Medical Alliance N-Lite Laser Workshop, Philadelphia, PA
- 2000 Principles & Applications of LipoStructure®, Sidney Coleman, M.D., New York, NY
- 2001 Face Lift and Neck Contouring Surgery, University of Chicago, Chicago, IL
- 2001 17th Annual Meeting, American Academy of Cosmetic Surgery, San Diego, CA
- 2001 S-Lift Workshop & Live Surgery, American Academy of Cosmetic Surgery, Washington, D.C
- 2001 Advances in Cosmetic Blepharoplasty & Brow Lift, St. Louis, MO
- 2002 Autograft Muscle Injection (FAMI) Workshop – the Amar Technique, Roger Amar, M.D., La Jolla, CA
- 2002 Face Lift and Neck Contouring Surgery, University of Chicago, Chicago, IL
- 2002 All About Faces Workshop & Live Surgery, American Academy of Cosmetic Surgery, Washington, D.C.
- 2002 American College for the Advancement of Medicine, (Spring Conference), Ft. Lauderdale, FL
- 2002 American Aging Association, San Diego, CA
- 2002 9th Mohs Dermatologic Conference, Madison, WI
- 2002 F.A.M.I. (Workshop The Amar Technique) Dermatology Associates, La Jolla, CA
- 2002 F.A.M.I. (Fat Autografting Muscle Injection) Seminar, Roger Amar, M.D., Denver, CO
- 2002 F.A.M.I. (Workshop The Amar Technique) Centennial, CO
- 2002 World Congress on Liposuction Surgery, American Academy of Cosmetic Surgery, Denver, CO
- 2003 Upper, Mid, and Lower Facelift: Dissection and Live Surgery, Jules Stein Eye Institute, Department of Ophthalmology, UCLA School of Medicine, Los Angeles, CA
- 2003 Minimal Incision Facial Cosmetic Surgery Workshop and Live Surgery, American Academy of Cosmetic Surgery, Washington, D.C.
- 2003 55th Annual Meeting of The Pennsylvania Academy of Dermatology, Hershey, PA
- 2003 The Phoenix Conference on Longevity Health Sciences, Scottsdale, AZ
- 2003-04 Helms Medical Institute (HMI)/University of Southern California Medical Acupuncture for Family Physicians Course (didactic), Los Angeles, CA
- 2004 Helms Medical Institute (HMI)/University of Southern California Medical Acupuncture for Family Physicians Course (clinical), Tempe, AZ
- 2004 Advances in Cosmetic Blepharoplasty Brow & Midface Lift, St. Louis, MO
- 2004 Liposuction, Lipofilling & Liposhifting in 2004, American Academy of Cosmetic Surgery, Washington, D.C.
- 2004 24th Annual Meeting, American Society for Laser Medicine and Surgery, Dallas, TX
- 2004 Facial Rejuvenation—Limited and Minimal Advances, American Academy of Cosmetic Surgery, Washington, D.C.
- 2004 Molecular Mechanisms of Aging, American Aging Association, St. Petersburg, FL
- 2004 Latest Techniques in Facial Rejuvenation for the Dermatologic Surgeon, ASDS, San Diego, CA
- 2004 ASDS-ACMMSCO Combined Annual Meeting, San Diego, CA
- 2004 41st Annual Meeting of The American Society of Dermatopathology, Boston, MA
- 2004 The Threadlift, Non-Surgical FaceLift Course, New York, NY
- 2005 Facial Rejuvenation with Acupuncture & Chinese Herbs, Pacific College of Oriental Medicine, New York, NY
- 2005 Medical Acupuncture Review Course, American Academy of Medical Acupuncture, Atlanta, GA
- 2005 HMI (Helms Medical Institute) Intermediate Course One (Acupuncture), Pittsburgh, PA
- 2005 The QuickLift™ Live Surgery Workshop, Pittsburgh, PA
- 2005 F.A.M.I. (Facial Autograft Muscle Injection) “The Amar Technique,” Denver, CO
- 2005 HMI (Helms Medical Institute) Mega Pain Show, PENS and Beyond, Tempe, AZ
- 2005 Nutrition, Lifestyles, Aging and Neurodegenerative Diseases, American Aging Association, Oakland, CA
- 2005 Introduction to Toyohari Japanese Meridian Therapy, Pennsylvania Chapter of the American Academy of Medical Acupuncture, Philadelphia, PA
- 2005 Preceptorship with Gregory Ruff, M.D., Contour Threads™ Certification Course, Durham, NC
- 2005 Preceptorship with Roger E. Amar, M.D., “The Amar Technique,” The Sally Balin Medical Center for Dermatology and Cosmetic Surgery, Media, PA
- 2005 The Second Advanced Course, “The Amar Technique,” Denver, CO
- 2006 AACS 22nd Annual Scientific Meeting, Orland, FL
- 2006 F.A.M.I. (The Amar Technique 4th Advanced Course)
- 2006 Advances in Cosmetic Blepharoplasty, Brow & Midface Lift, St. Louis University School of Medicine, St. Louis, MO
- 2006 Charles A. Moss, MD., “Five Element Acupuncture Physician Training Program,” La Jolla, CA

- 2006 ICMART XII Medical Acupuncture Congress – The Expanding Horizon of Acupuncture: An International Celebration, 18th Annual American Academy of Medical Acupuncture Symposium, Washington, D.C.
- 2006 Pre-Symposium Workshop II: Easy Approach to the Body by Ear Acupuncture, 18th Annual American Academy of Medical Acupuncture Symposium, Washington, D.C.
- 2006 HMI (Helms Medical Institute) Advanced Program, Chinese Scalp Acupuncture Workshop, Tempe, AZ
- 2006 35th Annual Meeting of the American Aging Association, Boston, MA
- 2006 F.A.M.I. (Fresh Autologous Mesenchymal Integration), Denver, CO (Faculty)
- 2006 ICIM (International College of Integrative Medicine), Cleveland, OH
- 2006 43rd Annual Meeting of The American Society of Dermatopathology, Chicago, IL
- 2007 The FAMI Technique- Basic Course- Media, PA (Faculty)
- 2007 The FAMI Technique- Advanced Course - Media, PA (Faculty)
- 2007 65th Annual Meeting of The American Academy of Dermatology- Washington, D.C.
- 2007 13th Annual Live Surgery Workshop, ISHRS Regional Workshop, Orlando FL
- 2007 27th ASLMS Annual Conference- Grapevine, Texas
- 2007 Mohs College Annual Meeting - Naples, Florida
- 2007 36th Annual Meeting of the American Aging Association, San Antonio, TX
- 2007 Introduction to NETWORK Injection-Lipolysis Therapy, Globalhealth, Stuart FL
- 2007 First Annual QMP Reconstructive Surgery Symposium, St. Louis, MO
- 2007 American Society for Dermatologic Surgery Annual Meeting- Chicago, IL
- 2007 ASDP 44th Annual Meeting- Baltimore, MD
- 2008 AAMA 20th Annual Symposium, Washington, DC
- 2008 HMI (Helms Medical Institute) Returning Warrior Clinical Unit, Pittsburgh, PA & Tempe, AZ
- 2008 American Aging Association – 37th Annual Meeting, Boulder, CO
- 2008 AAMA (sponsored) Ear Acupuncture Workshop, Atlanta, GA
- 2008 ASDP 45th Annual Meeting, San Francisco, CA
- 2009 26th Annual UCLA Intensive Course in Geriatric Medicine & Board Review, Marina Del Rey, CA
- 2009 Professional Conversational Hypnotherapy Training, Seattle, WA
- 2009 Self Hypnosis Seminar, Ft. Lauderdale, FL
- 2009 42nd Annual Meeting Pennsylvania Academy of Dermatology & Dermatologic Surgery, Bedford, PA
- 2009 ASDP 46th Annual Meeting, Chicago, IL
- 2010 AACS 26th Annual Meeting, Orlando, FL
- 2010 Stage Hypnosis Training, Las Vegas, NV
- 2010 AAD 68th Annual Meeting, Miami, FL
- 2010 42nd Annual Meeting American College of Mohs Surgery, New York, NY
- 2010 Advanced Conversational Hypnosis, Los Angeles, CA
- 2010 American Aging Association – 39th Annual Meeting, Portland, Oregon
- 2010 ASCH Regional Workshop, Alexandria, VA
- 2010 Professional Conversational Hypnotherapy Training Program, Chicago, IL
- 2010 The American Society of Dermatopathology 47th Annual Meeting, Atlanta, GA
- 2010 Advanced Street Hypnosis Training, Las Vegas, NV
- 2011 Hypnosis Seminar, Chateau Circle, Igor Ledochowski, Paris, France
- 2011 American Society of Clinical Hypnosis, Las Vegas, NV
- 2011 American Academy of Medical Acupuncture, San Diego, CA
- 2011 Age Regression, ASCH, Clinical Hypnosis Education and Training, Burlington, VT
- 2011 Street Hypnosis Seminar, Long Beach, CA
- 2011 American Aging Association – 40th Annual Meeting, Raleigh, NC
- 2011 American Academy of Dermatology Summer Academy Meeting, New York, NY
- 2011 ASDP 47th Annual Meeting, Seattle, WA
- 2011 Professional Conversational Hypnotherapist Train the Trainer, Cabo San Lucas, Mexico
- 2011 11th International Congress on Ericksonian Approaches to Psychotherapy, Phoenix, AZ
- 2012 American Aging Association – 41st Annual Meeting, Ft. Worth, TX
- 2012 American Academy of Medical Acupuncture – El Segundo, CA
- 2012 American Society of Clinical Hypnosis, 49th Annual Meeting – Boston, MA
- 2012 Advanced Covert Hypnosis, Igor Ledochowski,, Dublin, Ireland
- 2012 ASCH Regional Hypnosis Workshop – Chicago, IL
- 2012 Advanced Ericksonian Hypnotherapy – Amsterdam, Netherlands
- 2012 American Society of Dermatopathology, 49TH Annual Meeting – Chicago, IL
- 2012 Advanced Mind-Bending Language for Influence’ Program, Igor Ledochowski, Toronto, ON, Canada
- 2013 Live Conversational Hypnosis, Igor Ledochowski, Houston, TX

2013	The Power of Conversational Hypnosis, Erickson Workshop, London, England, UK
2013	AAD, Summer Academy Meeting, New York, NY
2013	ACMS Annual Meeting, Washington, DC
2013	ASDP 50 th Annual Meeting, Washington, DC
2013	ASCH, Punta Canta, DR
2014	AAD Annual Meeting, Denver, CO
2014	ASCH Regional Hypnosis Workshop – Alexandria, VA
2014	ASCH Advanced Workshop – Chicago, IL
2014	ASDP 51 st Annual Meeting – Chicago, IL
2015	AAD, Annual Meeting, San Francisco, CA
2015	ASCH, Annual Meeting Jacksonville, FL
2015	HTA Hypnosis Mastermind Group, Las Vegas, NV
2015	American Society of Dermatopathology, 50 th Annual Meeting – San Francisco, CA
2016	AAD Annual Meeting, Washington, DC

Scientific Meetings Attended Annually

American Academy of Dermatology, annual meeting - 1979 - Present
 American Aging Association, annual meeting - 1981 - Present
 American College of Mohs Micrographic Surgery, annual meeting - 1981 - Present
 American Society of Dermatologic Surgery, annual meeting - 1981 - Present
 American Society of Dermatopathology, annual meeting - 1981 – Present

Scientific Meetings Attended Periodically

American Academy of Cosmetic Surgery, annual meeting - 1995, 1999
 American Federation for Aging Research, annual meeting
 American Geriatrics Society, annual meeting
 The Gerontological Society, annual meeting - 1996, 1997, 1998, 1999
 Tissue Culture Association, annual meeting
 Society for Investigative Dermatology, annual meeting

Post-Doctoral Trainees

1983-85	Matthew C. Varghese, M.D., Rockefeller Clinical Scholar
1985-87	Andrew N. Lin, M.D., Rockefeller Clinical Scholar
1985-87	Loretta Pratt, M.D., Rockefeller Clinical Scholar
1985-89	Robert G. Allen, Ph.D., NIA Postdoctoral Fellowship

Miscellaneous

President, Class of 1974, University of Pennsylvania School of Medicine
 Chairman, Class of 1966, The Haverford School, Haverford, PA (1970-1986)
 Triangle Fraternity, 1967
 Certified SCUBA Diver, Professional Association of Diving Instructors, 1970

Committees

2004-	Program Director, Riddle Hospital Skin Cancer Program, Media, PA
1998-05	Teaching Library Development Task Force Committee, American College of Mohs Micrographic Surgery and Cutaneous Oncology, Milwaukee, WI
1998-02	Member, Board of Directors, The International Board of Advanced Longevity Medicine, Chicago, IL
1998	Oral Board Examiner, American Board of Anti-Aging Medicine, Las Vegas, NV
1992-99	Advisory Board on Health Care for Congressman Curt Weldon
1991-92	National Certification Examination Panel. American Board of Mohs Micrographic Surgery & Cutaneous Oncology
1989-92	Technical Advisory Committee, Elderly Health Risk Appraisal, The Carter Center of Emory University, Atlanta, GA 30307
1983-89	Alternate, Institutional Review Board, The Rockefeller University Hospital
1983-89	Chairman, Biology of Aging Weekly Discussion Series, The Rockefeller University

1975-76	Philadelphia County Medical Society Subcommittee on Medical Student Affairs
1973-74	Association of American Medical Colleges Organization of Student Representatives
1972	Operation VD Counterattack (Steering Committee), Philadelphia, PA at the University of Pennsylvania:
1970-75	Medical Student Government: President, 1973-74; Vice President, 1972-73
1971-74	Medical Council
1971-73	Medical School Curriculum Review Committee
1972-73	Medical School Admissions Committee
1973-74	Medical Library Advisory Committee
1973-74	University Student Health Review Committee
1973-74	Search Committee for the Vice-President of Health Affairs
1974-75	University Council
1974-76	University of Pennsylvania Academic Planning Committee

Research Interests

Molecular Biology and Clinical Aspects of the Biology of Aging
 Free Radical Biology
 Oxygen Toxicity
 Assessment of Physiologic Age
 Wound Healing
 Skin Diseases
 Skin Cancer
 Problems Accompanying Aging Skin

I have been interested in understanding the mechanisms that are responsible for the aging process. My research has employed cell culture techniques to examine how oxygen influences the growth, metabolism, and life span of human cells with an eye toward probing whether oxidative stress significantly influences the aging process. I have had a clinical interest in developing techniques to ameliorate cutaneous disease associated with the aging process. Skin cancer and wound healing in the elderly are of particular interest.

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Publications

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2. Touchstone JC, Murawec T, Kasparow M, Balin AK: Quantitation of estriol in pregnancy urine by diazoting coupling and direct thin layer densitometry. *J Chromat Science* 8:81-83, 1970.
3. Touchstone JC, Balin AK, Murawec T, Kasparow M: Quantitative densitometry on thin layer plates of silica gel impregnated with phosphomolybdic acid. *J Chromat Science* 8:443-445, 1970.
4. Balin AK, Goodman DBP, Rasmussen H, Cristofalo VJ: The effect of oxygen tension on the growth and metabolism of WI-38 cells. *J Cell Physiol* 89:235-250, 1976.
5. Balin AK, Goodman DBP, Rasmussen H, Cristofalo VJ: Atmospheric stability in cell culture vessels. *In Vitro* 12:687-692, 1976.
6. Balin AK, Goodman DBP, Rasmussen H, Cristofalo VJ: The effect of oxygen and vitamin E on the in vitro life span of human diploid cells. *J Cell Biol* 74:58-67, 1977.
7. Balin AK, Goodman DBP, Rasmussen H, Cristofalo VJ: Oxygen-sensitive stages of the cell cycle of human diploid cell. *J Cell Biol* 78:390-400, 1978.
8. Stenn KS, Balin AK, Higgins T, Stenn JO: Spongiosis. *J Amer Acad Dermatol* 5:213-214, 1981.
9. Cristofalo VJ, Balin AK: Oxygen tension and vitamin E: Effects on cellular senescence in vitro. In: *Aging: A Challenge to Science and Society*, vol. I. Biology, Danon D, Shock NW, Marois M (eds), Oxford University Press, Oxford, England, 1981, pp. 99-124.

10. Balin AK: Testing the free radical theory of aging. In: Testing the Theories of Aging, vol. XIV, Adelman R, Roth G (eds), CRC Press, 1982, pp. 137-182.
11. Carter DM, Balin AK: Dermatological aspects of aging. In: Medical Clinics of North America, Samiy AH (ed.), WB Saunders Co, Philadelphia, 1983, 67:531-543. Reprinted in: Dermatologic Clinics 1984, 2:151-159, WB Saunders Co., Philadelphia, PA.
12. Balin AK, Fisher AJ, Carter DM: Oxygen modulates growth of human cells at physiologic partial pressures. J Exp Medicine 160:152-166, 1984.
13. Kligman AM, Grove G, Balin AK: Aging of human skin. In: The Biology of Aging, Finch C, Schneider E (eds), 2nd edition, Van Nostrand, Reinhold Co, NY, 1985, pp. 820-841.
14. Varghese M, Balin AK, Carter DM, Caldwell D: Local environment of chronic wounds under synthetic dressings. Arch Dermatol 122:52-57, 1986.
15. Carter DM, Caldwell D, Varghese M, Balin AK: Effectiveness of Bactroban ointment in chronic skin infection: Report of a clinical study. Bactroban (Mupirocin): Proceedings of an International Symposium, 1984. Dobson RL, Leyden JJ, Noble WC, Price JD (eds). Amsterdam, Excerpta Medica 1985, pp. 228-240.
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18. Balin AK, Allen RG: Mechanisms of biologic aging. In: Dermatologic Clinics 1986, Gilchrest B (ed.), Philadelphia, WB Saunders Co. 4: 347-358, 1986.
19. Blass J, Baker A, Balin AK, Barclay L, Gibson G, Peterson C, Sims N: Biological Markers for Alzheimer's Disease. In: Alzheimer's and Parkinson's Disease: Strategies for Research and Development. Springer US, 29:229-308, 1986.
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22. Nations C, Allen RG, Balin AK, Reimer RJ, Sohal RS: Superoxide dismutase activity and glutathione concentration during the calcium-induced differentiation of *Physarum polycephalum* microplasmodia. J. Cellular Physiology, 133:181-186, 1987.
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24. Balin AK: Various sections on Disorders of the Skin. In: American Association of Retired Persons Pharmacy Service Prescription Drug Handbook. Scott, Foresman and Company, Glenview, IL, 1988.
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27. Carter DM, Balin AK, Gottlieb AB, Eisinger M, Lin AN, Pratt L, Sherbany A, Caldwell D: Clinical experience with crude preparations of growth factors in healing of chronic wounds in human subjects. In: Growth Factors and Other Aspects of Wound Healing: Biological and Clinical Implications, Alan R. Liss, Inc., New York 1988, pp 303-317.
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Abstracts, Editorials, Book Reviews, and Magazine Articles

1. Touchstone JC, Murawec T, Kasparow M, Balin AK: Densitometry of silica gel thin layer chromatograms containing phosphomolybdic acid. Presented to the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, 1970. (abstract)
2. Balin AK, Goodman D, Rasmussen H, Cristofalo VJ: The effect of oxygen tension on the growth and aging of WI-38 cells. *In Vitro* 10:384, 1974. (abstract)
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10. Balin AK; Rachlin 2000 Hour; WVES, New York; 8/25/97, 9/12/97, (radio).
11. Balin AK: Host: Longevity Achievement Hour, WALE Radio 990 AM, Providence, RI, 5 PM to 6 PM, Wednesdays, 1/98 to 4/98, (radio).
12. Balin AK: Host: Speaking About Your Skin, WALE Radio 990 AM, Providence RI, 1 PM to 2 PM, Sundays, 1/21/98 to 4/11/99, (radio).
13. Balin, AK: Host: Speaking About Your Skin, KFNB Radio 1100 AM, Phoenix, AZ, 10 AM to 11 AM, Sundays 7/19/98 to 4/11/99, (radio).
14. Balin, AK with host Seamus O'Connolly, KHOB Radio 1390 AM, Hobbs, NM; 7/1/98, 7/9/98, 10/9/98 (radio).
15. Balin, AK with host Al Gravell, CJAD Radio 800 AM, Montreal, Quebec; 7/13/98, (radio).
16. Balin, AK with co-hosts Dan Parker/Mary Ellen Gelbruda, WCMY Radio 1430 AM, Ottawa, IL; 7/16/98, (radio).
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- 21 Balin, AK with host Bill Peterson, "The Doctor's Office," KWIX Radio 1230 AM, Moberly, MO; 9/15/98, (radio).
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