

Ralph Green, MD, PhD, FRCPath

Distinguished Professor
Department of Pathology and Laboratory Medicine
University of California, Davis

Academic Qualifications

Name: Ralph Green
Place of Birth: Johannesburg, South Africa
Citizenship: U.S. Citizen by Naturalization, 1982
Family: Irene (wife) and Five Children
Home Address: 44685 South El Macero Drive
El Macero, California 95618
Telephone: 530-297-0297

Qualifications:

Medical Licensure:	
State of Ohio (49999)	1983
State of California (38466)	1976
Federal Licensing Examination (FLEX) – California	1976
General Medical Council – Overseas (United Kingdom) (1217355)	1967
Education Council for Foreign Medical Graduate (ECFMG)	1963
Board Certification:	
Fellow, Royal College of Pathologists, United Kingdom (Hon)	2002
Diplomat, American Board of Pathology (Clinical Pathology)	1995

Academic Degrees:

Medical:	
M.B., Ch.B.*University of the Witwatersrand Medical School Johannesburg, South Africa	1958-1963
Ph.D. University of the Witwatersrand Medical School Johannesburg, South Africa	1976

* 6-year medical degree, British system; equivalent of American M.D.

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Current Academic and Professional Appointments:

Distinguished Professor, Pathology and Medicine, University of California, Davis	2011-present
Professor, Department of Pathology & Laboratory Medicine University of California, Davis	1996-2011
Professor, Department of Internal Medicine University of California, Davis	2003-2011

Past Academic and Professional Appointments:

Professor and Chair, Department of Pathology and Laboratory Medicine University of California, Davis	1996-2009
Interim Chair, Department of Medical Microbiology and Immunology University of California, Davis	2000-2002
Professor of Pathology Ohio State University	1992-1996
Associate Professor, Department of Medicine Case Western Reserve University	1990-1996
Chair, Department of Laboratory Hematology Head, Section of Laboratory Hematology Staff Division of Pathology and Laboratory Medicine (Dual appointment with Department of Cell Biology, Research Institute) The Cleveland Clinic Foundation, Cleveland, Ohio	(1983-1992) (1992-1993) (1993-1996) 1983-1996
Adjunct Associate Professor, Pathology University of California, San Diego	1979-1983
Associate Member (1983) and Assistant Member Division of Hematology, Department of Basic and Clinical Research (Presently Department of Molecular and Experimental Medicine) Joint appointment with Department of Pathology Scripps Clinic and Research Foundation La Jolla, California	(1975-1983) 1975-1983
Senior Lecturer* (1973-1975) and Lecturer** Department of Haematology, School of Pathology University of Witwatersrand and South African Institute for Medical Research Johannesburg, South Africa	(1973) 1973-1975

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Resident, Department of Haematology and School of Pathology University of Witwatersrand and South African Institute for Medical Research, Johannesburg, South Africa	1970-1972
Research Fellow, Department of Haematology, St. Bartholomew's Hospital and Medical College London, England (Wellcome Trust Fellow)	1967-1969
Clinical Research Fellow, Department of Medicine University of Witwatersrand South Africa (joint NIH, USA & MRC, SA)	1965-1967
Rotating Internship, Johannesburg General Hospital Johannesburg, South Africa	1964-1965

* Associate Professor Equivalent

** Assistant Professor Equivalent

Professional Societies

2017#* American Society of Hematology, Honorary Emeritus Member
2015* Association of Pathology Chairs, Senior Fellow
2005* United States & Canadian Academy of Pathology (USCAP)
2003* George F. Stevenson Society, American Society of Clinical Pathologists
2002* College of American Pathologists (Fellow#)
2002* Royal College of Pathologists
2002 Group for Research in Pathology Education (GRPE)
2001* American Society for Investigative Pathology
2000* American Medical Association
1999* Western Association of Physicians#
1996* Western and Midwestern Association of Pathology Chairs
1996* Association of Pathology Chairs
1992* International Society for Laboratory Hematology
1991 International Society for Experimental Hematology
1990* International Society of Hematology
1989 International Society for the Use of Resealed Erythrocytes as Carriers and Bioreactors
1988 American Society for Biochemistry and Molecular Biology
1988 American Society for Clinical Pathologists (Fellow#)
1986 Central Society for Clinical Research*
1984 New York Academy of Sciences
1983 Council on Thrombosis, American Heart Association#
1981* American Institute of Nutrition
1981* American Society for Clinical Nutrition
1981 Society for Experimental Biology and Medicine
1979 Western Society for Clinical Research#

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1978 American Federation for Clinical Research

1976* American Society of Hematology

By Nomination

*Current

External Editorial Boards

Advisory Committees

2020 USAID Advancing Nutrition Anemia Task Force – Biology Working Group

2020 Micronutrient Forum Advisory Group for Improving the Generation and Utilization of Reliable Data on Population MN Status (Gates Foundation)

2019 NIH workshop on Metabolic Interaction between excess Folates/ Folic acid and Vitamin B12 Deficiency, Bethesda, MD. July 2019

2019 International Scientific Advisory Committee, 12th International conference on One carbon metabolism, B vitamins and Homocysteine, Reus, Spain. June 2019

2018 Chair and Co-Organizer FASEB Summer Conference on Folate, Vitamin B12 and One-Carbon Metabolism, Nova-Scotia

2017-present UC Santa Cruz Student Health Clinic Clinical Laboratory (Director)

2016 Vice-Chair and Co-organizer FASEB Summer Conference on Folate, Vitamin B12 and One-Carbon Metabolism

2016 External Reviewer, Bill and Melinda Gates Foundation

2015-present Editorial Advisory Board, Blood Cells, Molecules and Diseases (see Editorial Appts)

2013 Reviewer, W.M. Keck Foundation Science & Engineering and Medical Research Programs

2013-present Special Government Employee: (Consultant) Food and Drug Administration, Oncologic Drugs Advisory Committee

2012-2015 Contributing Editor, Blood Cells, Molecules and Diseases

2012-present UC Berkeley Student Health Clinic Clinical Laboratory (Director)

2011 Reviewer, Canadian Office of Biotechnology, Genomics and Population Health

2009 Reviewer, Biomarkers of Nutrition for Development, (BOND),

2009-present Honorary Editorial Board, Nutrition and Dietary Supplements

2009-2013 Education Committee, American Society for Investigative Pathology

2008-2012 Member, NIH Integrated Nutrition and Metabolic Processes Study Section, Center for Scientific Review

2007 Special Emphasis Panel, NIH Center for Scientific Review

2006-2009 Association of Pathology Chairs, Committee on Graduate Education (Chair, re-elected)

2006 National Institute on Aging – Special Emphasis Panel Ad Hoc Study Section, Bethesda, MD (Chair)

2005-present World Health Organization, Expert Committee on Vitamin B12 & Folate

2004-2008 Blood Source Medical Advisory Committees

2004-2012 American Society of Hematology, Committee on Clinical Laboratory Hematology

2004-present NHANES, Folate and Vitamin B12 Assessment Advisory Group

2004 Food and Drug Administration, Advisory Committee on Reproductive Drugs

2003-2009 Association of Pathology Chairs Research and Education Group (APC REG)

2003-present Special Government Employee: (Consultant) Food and Drug Administration, Center for Drug Evaluation and Research

2003 National Cancer Institute Prostate Cancer and Nutrition II, Ad Hoc Study Section (Chair)

2003 Special Emphasis Panel, NIH Center for Scientific Review

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2002-2009	Association of Pathology Chairs of North America, Council
2002-2006	Association of Pathology Chairs, Committee on Graduate Education (Chair)
2002-2004	National Academy of Clinical Biochemistry, Laboratory Medicine Practice Guidelines on Cardiac Risk Factors/Markers (Consultant)
2002	National Cancer Institute Prostate Cancer and Nutrition I Ad Hoc Study Section (Chair)
2001-2008	Governor's Review Panel, 21st Century Research and Technology Fund State of Indiana
2001-2005	Shriners Hospital for Children, Northern California Scientific Review Committee
2001-2006	Axis-Shield, Norway (Consultant)
2000-present	Shriners Hospital for Children, Sacramento, Medical Staff Executive Committee
2000-2006	American College of Nutrition, Cardiovascular/Hypertension/Geriatrics (Council Chair)
1999-2003	Universities Associated for Research and Education in Pathology, Executive Committee
1999-2001	American Society of Clinical Pathologists, Council on Education and Research
1998-present	UC Davis Student Health Clinic Clinical Laboratory (Director)
1997-present	Shriners Hospital for Children, Sacramento, CA (Director, Clinical Laboratories)
1997-2009	California Medical Association, Pathology Scientific Committee
1996-2001	Institute of Medicine National Academy of Sciences, Expert Panel on Folate and Other B Vitamins
1994-2003	International Society for Laboratory Hematology, Board of Directors, Executive Committee
1994	Life Sciences Research Office, Federation of American Societies for Experimental Biology Expert Panel on National Health and Nutrition Examination Survey
1993	Centers for Disease Control, Expert Panel Consultant on Guidelines for the Folic Acid Supplementation for the Prevention of Neural Tube Defects
1992-2000	International Committee for Standardization in Hematology, Iron Methodology
1992	Food and Drug Administration, Expert Panel Hearing on Folate and Birth Defects
1991	Advances in the Biosciences: Resealed Erythrocytes as Carriers and Bioreactors (Meeting Organizer)
1989-1991	International Society for the Use of Resealed Erythrocytes (Councilor) (President, 1989)
1988	NHANES III Planning, National Center for Health Statistics, Advisory Panel
1988	Sickle Cell Anemia Study Group, Technicon Corporation (Member)
1988	American Heart Association, Fellowship Review Panel
1985-1988	Veterans Administration, Merit Review Board in Hematology
1984-2007	International Committee for Standardization in Hematology, Vitamin B12 and Folate Methodology Executive Committee (Chairman, 1997-2007)
1980-1982	American Society of Hematology, Nutrition Subcommittee (Chair)
1980-1981	American Society of Hematology, Scientific Affairs Committee
1979-1996	National Committee for Clinical and Laboratory Standards, Iron Methodology
1979-1982	NIH Committee for Research Needs in Hematology, Nutrition/Malnutrition Subcommittee

UC Davis Health System

Advisory

2014-2016	Graduate Medical Education Advisory Committee
2006-2013	UC Davis Conflict of Interest Committee (COI)
2005-2008	Basic Science for Final Year Medical Student Special Studies Module Task Force (Chair)
2004-2006	Stem Cell Biology Recruitment Search Committee

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2003-2005	Medical Staff Committee
2003-2005	Research Resources Advisory Committee
2002-present	UC Davis Cancer Center, Internal Review Group
2002-2003	Dean's Council
2002	International Emerging Infectious Diseases and Bioterrorism: Symposium Steering Committee, UC Davis, Center for Comparative Medicine
2001-2009	Capital Equipment Evaluation Committee (Stratus)
2001-2008	Health System Contracts Work Group
2001-2004	School of Medicine Operations Group
2001-2003	Physician Managers Executive Committee
2001-2002	PDA/Handheld Computer Advisory Work Group
2001-2002	Clinical Trials Executive Committee
2001	Health System Management Advisory Committee (Committee dissolved)
2000-present	Member UC Davis Cancer Center
2000-2003	Council of Chairs (Chair-Elect and Chair)
2000-2001	E-Health Workgroup
2000-2001	Health System Resource Management Committee
1999-2007	Blood Products Utilization Workgroup (Chair)
1999-2000	Collaborations for Applied Telecommunications and Computing in Healthcare
1998-2001	Board of the UC Davis Medical Group, Executive Committee
1996-2009	Basic Science Council
1996-present	Pathology Residency Advisory Committee
1996-2009	Council of Chairs
1996-2009	Pre-Clinical Chairs Committee
1996-2008	Academic Partnership Council
1996-2008	Medical Staff Executive Committee
1996-2001	Graduate Medical Education Advisory Committee

Directorates & Similar Appointments

2017-present	Clinical Laboratory Director, Student Health, University of California, Santa Cruz
2014-2016	Residency Program Director, Pathology and Laboratory Medicine, UC Davis
2013-present	Clinical Laboratory Director, Student Health, University of California, Berkeley
2009-present	Director, UCD Medical Diagnostics Outreach
2006-2008	Director of Clinical Pathology, Department of Medical Pathology and Laboratory Medicine, University of California, Davis Medical Center
1998-2002	Universities Pathology Consortium (UPCMD) Web-based Pathology Information System, Board of Directors
1997-present	Clinical Laboratory Director, Student Health, University of California, Davis
1996-2001	Residency Program Director, Pathology and Laboratory Medicine, UC Davis
1995-2009	Director of Clinical Laboratories, University of California Davis Health System
1995-present	Medical Director, Laboratory, Shriners Hospital, Sacramento, California
1991-2005	International Society for Laboratory Hematology Executive Committee and Board of Directors

Awards & Named Lectureships

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2020-21	Lady Davis Scholarship, Hebrew University, Israel (pending due to pandemic)
2017	Berend Houwen Award and lectureship of the International Society of Laboratory Hematology
2014	Dean's Award for Excellence in Clinical Care, UC Davis School of Medicine
2013	Tanaka Lecture, UCLA Harbor General Hospital
2010	Special Award from APC Program Directors for Extraordinary Service to Pathology Resident Education
2008	Giuseppe Bigi Memorial Lecture, University of Milan, Milan, Italy
2006	American Registry of Pathologists AFIP, Calendar Binford Lecturer Washington, DC
2005	John Harris Lectureship, Cleveland, Ohio
2002	Royal College of Pathologists, Honorary Fellowship, U.K.
1996	79th Annual Meeting of the American Dietetic Association. San Antonio, Texas. (Keynote Speaker)
1996	Kurt Reissmann Memorial Lecture University of Kansas, School of Medicine, Kansas City, Kansas
1995	Opening of Singapore Postgraduate Medical Institute (Keynote Speaker), Singapore
1990	Bruce Hubbard Stewart Fellow, Cleveland Clinic Foundation, Cleveland
1967-1969	Welcome Trust Fellowship, United Kingdom
1965-1967	National Institutes of Health Postdoctoral Fellowship (AM 04912)

Graduate Teaching

1996-present	Graduate Group in Nutritional Biology UC Davis
2001-present	Integrative Pathobiology UC Davis

Editorial Appointments

2018	Guest Editor, Nutrients. Folic Acid Fortification: Unanticipated Complications and Benefits
2012-2018	Editorial Board, Blood Cells, Molecules and Diseases
2004-present	Archives of Pathology & Laboratory Medicine (education)
2007-2012	International Journal of Laboratory Hematology, Editorial Board
2004-2009	Human Pathology, Editorial Board
1999-present	Hem/Onc Today, Clinical News in Hematology and Oncology, Editorial Board and Associate Section Editor
1997-2009	Preventive Cardiology, Editorial Board
1997-2005	Clinical and Laboratory Hematology, Editorial Board
1992-1994	Today in Medicine, Contributing Editor, Hematology/Oncology Section
1985-1987	Methods in Enzymology, Section Editor: Drug and Enzyme Targeting

Reviewer

- American Journal of Cardiology
- American Journal of Clinical Nutrition
- American Journal of Hematology
- American Journal of OB/GYN
- Annals of Clinical and Translational Neurology
- Annals of Internal Medicine
- Annals of Nutrition and Metabolism

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- Arteriosclerosis, Thrombosis, and Vascular Biology
- Asia Pacific Journal of Clinical Nutrition
- Blood
- Blood Cells, Molecules and Diseases
- British Journal of Haematology
- Carcinogenesis
- Cell Research
- Center for Scientific Review (NIH)
- Clinical Chemistry - International Journal of Laboratory Medicine and Molecular Diagnostics
- Clinical and Laboratory Haematology
- Consumer Reports on Health
- Department of Veterans Affairs
- Diabetes Care
- Gates Foundation
- Gut
- Human Pathology
- Interdepartmental Seed Grants (UCD)
- International Journal of Cancer
- International Journal of Laboratory Hematology
- Journal of Agriculture Economics
- Journal of Hematology & Oncology
- MedGenMed
- Medical Hypotheses
- Medscape
- National Institute of Health
- National University of Singapore (Thesis Review)
- Nature
- Neurology
- 21st Century Research and Technology Fund, State of Indiana
- PlosOne
- Preventive Cardiology
- Proceedings of the National Academy of Sciences
- Proceedings of the Society for Experimental Biology and Medicine
- Science
- Shriners Hospitals for Children Northern California
- The American Journal of Clinical Nutrition
- The American Journal of Kidney Disease
- The American Journal of Medical Sciences
- The American Journal of Medicine
- The American Journal of Obstetrics and Gynecology
- The American Journal of Physiology: Cell Physiology
- The Bill and Melinda Gates Foundation
- The Journal of American College of Nutrition
- The New England Journal of Medicine
- Thrasher Research Foundation
- United States Department of Agriculture (USDA)

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USDA, ARS Western Human Nutrition Research Center
United States Department of Health and Human Services National Institutes of Health
Universities Associated for Research and Education in Pathology
University of California, Irvine – Department of Pathology Review
WebMD

- Wellcome Trust India
Western Journal of Medicine

- (2015-2020)

Consultations, Speakers Bureau

2020 Church and Dwight
2019 Abbott Hematology
2015 Nestle Health Science-Pamlab – Advisory Board
2014 Biomarkers of Nutrition for Development, NICHD – Consultant
2103-2014 Xeragenx (St Louis, MO)
2012 Abbott Laboratories (Chicago, IL)
2010-2015 Emisphere Technologies (Cedar Knolls, NJ)
2007-2008 Cobento Corporation (Denmark)
1999-2006 Axis-Shield, Consultant (Norway)
2003 Food and Drug Administration, Center for Drug Evaluation and Research,
Reproductive Health Drugs Advisory Committee
1993 Singapore General Hospital. Visiting Consultant
1991 Amgen Corporation (Boulder, CO & Thousand Oaks, CA)
1991-1995 ABX Diagnostics (France)
1987-1991 Bayer Corporation (White Plains, NY)
1979-1983 Becton-Dickenson (Baltimore, MD)
1977-1979 Kallstad Laboratories (Texas)
1976-1977 Diagnostic Assays Corporation (San Diego, CA)

Presentations-Invited

Scientific:

2020 “B12 deficiency – a global problem and its solutions” Invited Keynote Speaker, First International Conference on B12 and Folate deficiency in Clinical Practice October 29-30 Rotterdam, The Netherlands (This meeting has been postponed to September 29-30, 2021 because of the COVID-19 pandemic <https://b12conference2021.nl/invited-accepted-speakers/>)

2020 “The safety of high folic acid when vitamin B12 is deficient” Invited Keynote Speaker on Controversial topics at the 6th International Vitamin Conference, 22-25 September 2020 Copenhagen. (This meeting has been postponed to September 22-24, 2021 because of the COVID-19 pandemic www.vitaminconference.com)

2020 “Contemporary diagnosis of B12 deficiency” Invited Speaker FASEB: Folic Acid, Vitamin B12, and One-Carbon Metabolism, Virtual Meeting replacing planned meeting in Bend Oregon because of the COVID-19 pandemic. August 17, 2020

2019 “Early detection of Anemia caused by blood loss.” International Society for Laboratory Hematology, BC. Canada, May 9

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- 2018 “Vitamin B12, a very fascinating essential nutrient: What we know and what we don’t know,” Visiting professor, Shinshu University, Japan, March 20, 2018.
- 2018 “Clonal Hematopoiesis of Indeterminate Potential – C.H.I.P” Perspectives in Clinical Cardiology, Grand Rounds Series and Cardiovascular Research Interest Group, UC Davis, Sacramento, CA.
- 2017 “Blood and Guts” International Society for Laboratory Hematology, Honolulu, HI (named Houwen Lectureship)
- 2016 “Pioneers in One-Carbon Metabolism: Connecting the Past to the Present and Future.” FASEB: Folic Acid, Vitamin B12, and One-Carbon Metabolism, Steamboat Springs, CO (Keynote Speaker)
- 2016 “Vitamin B 12 and the Brain – Implications in Health and Disease.” Keynote lecture, Neuroscience Day, University of Aarhus, Denmark.
- 2015 “The Protean Faces of Vitamin B12 Deficiency- Master of Disguises.” 10th Conference on One Carbon Metabolism, Vitamins B and Homocysteine, Nancy, France
- 2014 “The Role of B-Vitamin Deficiencies in Neurodegenerative Diseases: Is There a Role for Supplementation for Prevention?” Academia Sinica, Taiwan
- 2014 “Holo-TC and Total Vitamin B12 Measurement: Pros and Cons.” FASEB Folate, Vitamin B12 and One-Carbon Metabolism Summer Conference
- 2014 “Hematologically Relevant Micronutrient Status: Does the Microbiome Affect Vitamin Bioavailability?” NHLBI Microbiome Workshop.
- 2014 “Is Vitamin B6 Status Important in Sickle Cell Disease? Lessons Learned from a Supplementation Trial.” NHLBI Biomedicine Lecture Series
- 2013 Homocysteine and One-Carbon Metabolism 9th International Conference, Dublin, Ireland. “Vitamin B6 and Vascular Disease Risk: Homocysteine or Inflammation?”
- 2013 Academia Sinica and UC Davis Neuroscience Symposium, Sacramento, CA. “Vitamins and brain function - food for thought”
- 2013 Genomeet 2013, Delhi, India. “Vitamin B12 Deficiency in Complex Disorders.”
- 2012 Second ASEAN Federation of Haematology Scientific Congress, Singapore. “Anemias beyond B12 and iron deficiency: The Buzz about other B’s, “Elementary and non-Elementary problems.”
- 2012 Advances and Controversies in B-Vitamins and Choline, University of Leipzig. “New insights into cobalamin absorption and metabolism using accelerator mass spectrometry.”
- 2011 Cancer Prevention Program Fred Hutchinson Cancer Research Center, Seattle, WA. Micronutrient Status and the Nervous System in Cancer
- 2011 American Institute for Cancer Research annual Conference, Washington DC
Micronutrient Status and the Nervous System in Cancer: A Balance between Feeding the Host and Starving the Tumor (Keynote Symposium Speaker)
- 2010 Symposium on Nutritional Genomics, Natal, Brazil
“Deficiency in Vitamin B12 and Folic Acid – relationship to megaloblastic anemia and impaired neurological function and the role of genetic polymorphisms”
- 2010 University of San Paulo, San Paulo, Brazil “Deficiency in Vitamin B12 and Folic Acid: “Functional relationship to megaloblastic anemia and impaired neurological and cognitive status”
- 2010 HEMO 2010, Brasilia, Brazil “Megaloblastic anemia and neurological complications - Diagnosis and treatment”

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- 2010 XXXIII World Congress of the International Society of Hematology (ISH), Jerusalem, Israel
"New Insights to Cobalamin and Folate Metabolism"
- 2010 Nutrition and Hemoglobinopathies Working Group, NIH Campus, Bethesda, MD
"Overview of One Carbon Metabolism in Hemoglobinopathies"
- 2010 FASEB Summer Research Conference, Folic Acid, Vitamin B12, and One-Carbon Metabolism, Carefree, Arizona "Overview of controversies on folic acid and vitamin B12 fortification, enrichment, and supplementation"
- 2010 Teratology Society Meeting, March of Dimes Symposium, B12 and Neural Tube Defects, Louisville, KY
"Should We Fortify Food with B12 Now? No" (Keynote Symposium Speaker)
- 2010 Experimental Biology (EB) 2010 Anaheim, CA, "The history of the development of folate antagonists as antimicrobial and anticancer agents". (Special Symposium Speaker)
- 2010 Cysteine Obesity Project Meeting, Oxford University, Oxford, UK, "Naked DNA Model to Treat Cystathionine Beta Synthase Deficiency"
- 2010 IAEA/NICHD Conference; Biomarkers of Nutrition for Development (BOND), Vienna, Austria, "Biomarkers for Folate and Vitamin B12 Nutritional Status"
- 2009 Gordon Research Conference on Vitamin B12 & Corphins - (Magdalen College, University of Oxford, U.K.) Moderator
- 2009 7th International Conference on Homocysteine Metabolism, Prague, Czech Republic, "Comparison of Cancer Trends in U.S., U.K. and Canada and Relationship to Folic Acid Fortification"
- 2009 University of Milan, Italy, "Folic Acid, The Good, The Bad and Perhaps Some Ugly: Quali sono le conseguenze dei ritocchi all'approvvigionamento alimentare?"
- 2009 University of Oxford, John Radcliffe Hospital, Oxford, UK. "Vitamin B12 Deficiency – A Disease in Evolution" (with notes on the gun that got Annie and the toll for Bell)"
- 2009 USC Hematology/Oncology Conference "Vitamin B12 Deficiency – A Disease in Evolution"
- 2009 UCLA Department of Pathology and Laboratory Medicine Visiting Professor Series "Vitamin B12 Deficiency – The Changing Spectrum"
- 2009 USC Hematology Division, "Folate, Epigenetics and Cancer: Is there a connection and might it relate to changes in methylation status?"
- 2009 UCSF Department of Neurology Myelin & Aging Group, "Vitamin B12 and the Nervous System: A Continuing Puzzle"
- 2008 Department of Clinical Biochemistry, Aarhus University Hospital, Denmark, "New Insights into Vitamin B12 and its Absorption: Pernicious Anemia and Beyond"
- 2008 Stanford University Hematology Rounds, "Vitamin B12 Deficiency: A New Look at an Old Disease - Ex Africa semper aliquid novi"
- 2008 Fred Hutchinson Cancer Epidemiology Research Seminar, Seattle, WA, "B12 – 'Old' Vitamin, Back in the Spotlight"
- 2008 Fred Hutchinson Cancer Research Center Clinical Research Division Seminar, Seattle, WA "Tinkering with the Food Supply: Folic Acid, the Good, the Bad and Perhaps Some Ugly"
- 2008 FASEB Summer Research Conference, Il Ciocco, Italy
"Vitamin B12, Folate and One-Carbon Metabolism"
- 2008 Western-Midwestern APC & PDAS Regional Meeting "Carpe Diem: Stem Cells, Informatics and proteomics: target areas for growth"

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- 2008 Giuseppe Bigi Memorial Lecture, University of Milan, Milan, Italy “Cobalamin – A Sanguine Vitamin”
- 2008 Experimental Biology EB '08 Breakthrough Symposium, San Diego, CA “Is it Time for B12 Fortification? What are the Questions?”
- 2007 Homocysteine Day, St Anne’s College, Oxford, U.K. “Vitamin B12 and Holotranscobalamin: Current Status and Clinical Significance”
- 2007 Gordon Research Conference on Vitamin B12 and Corphins, University of New England, Biddeford, Maine. “B12 in Medicine and Toxicology”
- 2007 6th Conference on Hyperhomocysteinemia, Saarbrucken, Germany. Chair, Homocysteine Metabolism and Thrombosis Plenary Session. “Assessment of vitamin B12 Status and its Genetic Determinants as Risk Factors for Hyperhomocysteinemia in a Folic Acid Fortified Population”.
- 2007 University Hospital, Charles University, Prague, Czech Republic Diagnosis of Vitamin B12 Deficiency: Past, Present and Future”
- 2007 Cleveland Clinic Research Institute Seminar Series, Cleveland, OH. “Vascular Complications in Sickle Cell Disease – Is there a Role for Vitamin B6?”
- 2007 Western Association of Physicians – Keynote Symposium – Carmel, CA. “Homocysteine, B Vitamins and Cardiovascular Disease”
- 2005 World Health Organization – Panel on Folate and Vitamin B12 Deficiencies, Geneva, Switzerland.
- (Speaker) 1. “Indicators for Assessing and Monitoring Folate and Vitamin B12 Status.”
- (Discussant) 2.” Effects of Folate and Vitamin B12 Deficiencies and Hematological Status.”
- (Working Group, Chair) 3.” Indicators to Assess Extent of Deficiencies of Folate and Vitamin B12 Status.”
- 2005 Gordon Research Conference on Vitamin B12 and Corphins, Queen’s College, Oxford, UK. “Alternatives and Limitations in the Approach to Diagnosis of the Presence and Cause of Clinical Vitamin B12 Deficiency – A Novel 14-C Label for Vitamin B12.”
- 2005 5TH International Conference on Homocysteine, Milan, Italy. “Homocysteine is Directly Associated with Soluble Vascular Cell Adhesion Molecule 1 (VCAM-1) in Type 1 and Type 2 Diabetes.” 2005 4th Conference on Hyperhomocysteinemia, Saarbrucken, Germany. (Invited Keynote Speaker) “Vitamin B12 Deficiency is the Dominant Nutritional Cause of Hyperhomocysteinemia in a Folic Acid-Fortified Population.”
- 2004 ACN 45th Annual Meeting, Long Beach, CA. “Hyperhomocysteinemia in End Stage Renal Disease (ESRD).”
- 2004 FASEB Summer Research Conference, Folic Acid, Vitamin B12 and One-Carbon Metabolism, Snowmass, CO. “Vitamin B12 and Holo TC as Determinants of Homocysteine in the Era of Folic acid Fortification.”
- 2004 Polish Society for Atherosclerosis Research Conference, Gdansk, Poland. “Homocysteine: A Risk Factor for Cardiovascular Disease and Thrombosis?”
- 2004 Grand Rounds, University of Minnesota, Minneapolis, MN. “Changes in Methyl-CpG Binding Proteins in a Methyl-Deficient Animal Model for Hepatocellular Carcinoma.”

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- 2003 24th Congress of the International Association for Breast Cancer Research, Sacramento, CA Session Moderator.
- 2003 American Association of Clinical Chemistry, Philadelphia, PA. "Hyperhomocysteinemia and Cardiovascular Disease."
- 2002 Bay Area Conference on Controversies in Cardiovascular Nutrition, Stanford University School of Medicine, Stanford, CA, "Homocysteine: A Risk Factor for Cardiovascular Disease?"
- 2002 People's Liberation Army Hospital, Beijing, China. "Methylation and Cancer"
- 2002 Annual Meeting of the Korean Society of Clinical Pathologists, Seoul, Korea. (Invited Keynote Speaker) "Homocysteine: A Risk Factor for Cardiovascular Disease and Thrombosis."
- 2002 Nutrition Week 2002, American College of Nutrition, San Diego, CA. "Folate & Vitamin B12 In Brain Function: Can Feast of One Mask Famine of the Other?"
- 2002 Highman Symposium, UC Davis, CA. "Homocysteine as a Risk Factor for Cardiovascular Disease: A Marker or Miscreant?"
- 2001 American College of Nutrition, Orlando, FL. (Chair & Speaker) Nutrition & Neurocognitive Decline."
- 2001 Trans-HHS NCI Workshop, Bethesda, MD. Vitamin B12, Folate and Methylation Reactions in the Brain.
- 2001 3rd International Conference on Homocysteine Metabolism, Sorrento, Italy. "Effect of Methionine-Induced Hyperhomocysteinemia on Microvascular Diameter and Blood Flow Velocity in Healthy Adults."
- 2001 ISLH Annual Meeting, Montpellier, France. Expert Panel on the Future of Laboratory Hematology "Hyperhomocysteinemia: Risk Factor for Alzheimer's Disease?"
- 2001 Beckman Coulter Symposium, Miami, FL "The Future of Hematology."
- 2000 ASCP Breakthroughs in Pathology, San Diego, CA. (Symposium organizer and speaker) "Atherothrombosis: The Homocysteine Connection"
- 1999 FASEB Experimental Biology 2000, San Diego, CA. Vitamin B12 and Health in Older Adults. Nutrition Annual Meeting, Washington, DC. "Homocysteine and Cardiovascular Disease: Folate, B12, B6 and Genetic Predisposition."
- 1999 ISLH Annual Meeting, Kobe, Japan. "Homocysteine – The New Cholesterol of the Millennium?"
- 1999 Highman Symposium, University of California, Davis, CA. "Inherited Defects in Homocysteine Metabolism - A Risk Factor for Atherothrombosis."
- 1998 National Institutes of Health. Baltimore, Maryland
- 1998 Experimental Biology. San Francisco, California CA
- 1998 ISLH 11th International Symposium on Technical Innovations in Laboratory Hematology Banff Springs, Alberta, Canada
- 1998 National Heart, Lung and Blood Institute, 50th Jubilee Conference on Cardiovascular Disease, San Francisco, CA, Symposium on Atherosclerosis Beyond Cholesterol, The Role of Hyperhomocysteinemia.
- 1997 39th Annual Meeting of the American Society of Hematology. San Diego, California
- 1997 Advancing Laboratory Practice in Haematology, Guernsey, Channel Isles, UK
- 1997 Homocysteine and Thrombosis.
- 1997 ABX/Spectrachrom Symposium on Reticulocyte Enumeration and Anemia Diagnosis: Red Cell Studies from the Cradle to the Grave. Copenhagen, Denmark

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- 1997 Bayer Diagnostics Symposium on Hematology and Anemia (on-line). Rome, Italy
- 1997 Highman Symposium, University of California, Davis. Davis, California
- 1997 Division of Nutritional Sciences, UC Berkeley. Berkeley, California
- 1997 Visiting Professor, Duke University. Durham, North Carolina
- 1996 ABX Symposium. Montpellier, France.
- 1996 Advancing Laboratory Practice in Haematology, Channel Islands, UK Metabolite Assays for the Diagnosis of Folate and B12 Deficiency.
- 1996 79th Annual Meeting of the American Dietetic Association. San Antonio, Texas. (Keynote Speaker). Folic Acid Fortification of the US Food Supply: Prospects of Benefits and Risks from the Brink of the Precipice
- 1996 Fall Convention of the American Society of Clinical Pathology. San Diego, California
- 1996 Cleveland Society of Surgeons. Cleveland, Ohio
- 1995 International Society of Hematology. Istanbul, Turkey
- 1995 Pritzker School of Medicine. (Visiting Professor), University of Chicago, Chicago, IL
- 1995 Detroit Medical Center. Wayne State University, MI. Visiting Professor
- 1995 Sixth International Society of Laboratory Hematology. Jackson Hole, Wyoming
- 1994 M.D. Anderson Cancer Center. Visiting Professor University of Texas, Houston, TX
- 1994 University of Cincinnati Medical College, OH. Visiting Professor
- 1994 Fifth International Society of Laboratory Hematology. Lake Tahoe, Nevada
- 1994 Miles Incorporated. Tarrytown, New York
- 1994 Roche International Haematology Symposium. Paris, France
- 1993 Singapore General Hospital. Visiting Professor
- 1993 Spanish Society of Hematology and Hemotherapy. Pamplona, Spain
- 1993 Roche International Haematology Symposium. Paris, France
- 1993 International Symposium: Thomas Addison and His Diseases: 200 Years On. Padua, Italy and London, England
- 1993 University of Ain Shams. Cairo, Egypt (Visiting Professor)
- 1993 Egyptian Society of Laboratory Medicine. Cairo, Egypt (Keynote Speaker)
- 1993 Ohio State University. Columbus, Ohio
- 1992 B12 Myelin and Methylation Group. Westminster Hospital, London, England
- 1992 XXIVth International Society of Hematology. London, England
- 1992 Galician Society of Hematology and Hemotherapy. La Coruna, Spain
- 1991 American Society of Hematology Satellite Meeting on Future Directions in Clinical Hematology. Denver, Colorado
- 1991 Advancing Laboratory Practice in Hematology. Jersey, Channel Islands, UK
- 1991 Charing Cross and Westminster Medical School. University of London, England
- 1991 Hall Symposium on Clinical and Basic Aspects of Vitamin B12 Metabolism. Albany, New York
- 1991 Becton Dickinson Corporation. Orangeburg, New York
- 1991 Miami University. Oxford, Ohio
- 1990 FASEB Summer Research Conference, Saxton's River, Vermont
- 1990 Fourth International Laboratory Hematology Symposium. Colorado Springs, Colorado
- 1990 The Page and William Black Post Graduate School of the Mount Sinai School of Medicine New York, New York
- 1990 XXIIIrd International Society of Hematology and American Society of Hematology, Satellite Symposium on Advances in Cytoanalysis. Boston, Massachusetts

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- 1990 XXXIIIrd National Meeting of Spanish Association of Hematology. Hemotherapy Symposium. Madrid, Spain.
- 1989 Third International Meeting on Resealed Erythrocytes. Cleveland, Ohio (Organizer and Chair)
- 1989 First International Conference on Advances in Clinical Hematology. Duke University, Durham, North Carolina
- 1989 Current Topics and Future Prospects of Iron Deficiency Anemia. Brisbane, Australia
- 1989 European and African Division of the International Society of Hematology. Jerusalem, Israel
- 1989 Second International Meeting on Hemochromatosis. Sydney, Australia
- 1989 Technicon Science Center. New York, NY
- 1989 Third International Symposium on Advances in Laboratory Hematology. Banff, Canada
- 1988 First International Symposium on Biomedicine and Physiology of Vitamin B12. London, England
- 1988 XXIIInd Congress of the International Society of Hematology. Milan, Italy
- 1988 Cancer Branch. National Institute of Health Workshop on Methyl groups and Cancer. Bethesda, MD
- 1988 FASEB Conference on Vitamin B12 Folate and the Nervous System. Washington, DC (Meeting Chair)
- 1988 Second International Symposium on Advances in Laboratory Hematology. Banff, Canada
- 1988 International Symposium on Flow Cytometric Applications to Laboratory Hematology. Paris, France
- 1987 Technicon International Seminar on the Future of Clinical Pathology. New York, NY
- 1987 University of Witwatersrand Medical School. Johannesburg, South Africa (Visiting Professor)
- 1987 Second International Meeting on Resealed Erythrocytes. Tours, France
- 1987 New York Academy of Sciences. First International Conference on Hemochromatosis. New York, NY
- 1987 University of Salamanca. Salamanca, Spain
- 1987 Spanish Congress of Biopathology, Valladolid, Spain
- 1986 FASEB Conference on Folate, Vitamin B12 and One Carbon Metabolism. Saxton's River, Vermont
- 1986 Atomic Diseases Institute. Nagasaki University School of Medicine, Nagasaki, Japan (Visiting Professor)
- 1986 University of Kansas School of Medicine. Kansas City, Kansas
- 1986 University of Ain Shams Medical School. Cairo, Egypt (Visiting Professor)
- 1986 XXIst Congress of the International Society of Haematology. Sydney, Australia
- 1985 University of Madison. Madison, Wisconsin
- 1984 XXth Congress of the International Society of Hematology. Buenos Aires, Argentina
- 1984 First International Conference on Red Blood Cell Carriers. Bellagio, Italy
- 1983 Washington University School of Medicine. Seattle, Washington
- 1982 Gordon Conference on Carriers in Biology and Medicine. New Hampshire
- 1981 XXIIInd International Congress of Nutrition. San Diego, California
- 1981 American Society of Hematology. San Antonio, Texas
- 1981 Georgetown University Hospital. Washington, D.C.
- 1981 University of Southern California Medical School. Los Angeles, California

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1981	California Blood Banking Systems. Los Angeles, California
1981	DHEW Symposium on Development of Iron Chelators. San Francisco, California
1980	XVIIIth International Congress of Hematology, Montreal, Canada
1980	Gordon Conference on Carriers in Biology and Medicine. New Hampshire
1979	American Society of Hematology. Phoenix, Arizona (Plenary Session Speaker)
1977	California Dietetic Association, San Diego, CA Iron, Folate, B12 and the Blood
1972	XVIIth International Society of Hematology. Paris, France
1972	XIVth International Congress of Hematology. Sao Paulo, Brazil
1969	Association of Clinical Pathologists of the United Kingdom. London, England
1969	Medical Research Society. London, England

Educational:

2020	“Homocysteine 2020 – Where do we stand?” Perspectives in Clinical Cardiology, Grand Rounds Series and Cardiovascular Research Interest Group, UC Davis, Sacramento, CA
2019	Vitamin B-12 Deficiency: A problem that’s easy to miss. Trends in Cardiovascular Medicine, Squaw Valley, November 2019.
2019	“Graduate Medical Education in Pathology: past, present, future – here, there everywhere.” William Beaumont School of Medicine. Invited Graduation Speaker. June
2019	Hematology Grand Rounds, University of Southern California, “The latest buzz about the B’s – folate and cobalamin in health and disease.” ISLH May 2019
2019	Abbott Diagnostics. “Red Cell Analysis: Past, Present, Future.” January 24, 2019.
2018	Grand Rounds, Department of Pathology and Laboratory Medicine, University of California, Davis. “Blood and Guts: Exploring connections between disorders of the gastrointestinal tract and the hematopoietic system.”
2018	UC Davis Hematology Oncology Fellows Blood Club Seminar. “Adventures in Hematology”
2017	University of California, Irvine. “Vitamin B12 deficiency from the perspective of a practicing hematologist -new development.”
2017	University of Southern California. “Vitamin B12 deficiency from the perspective of a practicing hematologist -new developments, a new look at an ‘old’ disease.”
2016	Association of Pathology Chairs 2016 Annual Meeting, San Diego, CA. “Crafting the Vision to Lead.”
2016	Aarhus University, Denmark. “The NIH system for grant awards.”
2016	Aarhus University, Denmark. “Responsible conduct of research: prevention is better than cure.”
2015	Association of Pathology Chairs 2015 Annual Meeting, San Diego, CA “The Challenge to Innovate: Preparing for Change in Pathology’s Workforce, technology and Business Models.”
2015	Personalized Medicine Course, UC Davis. “Genetic Polymorphism in 1-Carbon Metabolism-Cardiovascular, Cancer, & Neurodegenerative Perspective.”
2015	Personalized Medicine Course, UC Davis. “Genetic Polymorphism in 1-Carbon Metabolism – Case Studies.”
2015	B12 Deficiency Satellite Media Tour for Chamberlain PR, New York, NY

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- 2014 National Defense University, Taiwan. "Blood and Guts: Some connections between disorders of the gastrointestinal tract and the hematopoietic system."
- 2014 Two section seminar; Section 1 : "Folate-B12 relationships or the effects of folic acid fortification of the diet," Section 2 : "One-carbon nutrients and neurodegenerative diseases" Fu-Jen University Taipei, Taiwan
- 2014 35TH World Congress of International Society of Hematology, Beijing, China
"Micronutrients in Hematology: Building Blocks for the Blood"
- 2013 HEMO 2013, Brazil. "Markers of Vitamin B12 Status"
- 2013 HEMO 2013, Brazil. "Beyond deficiency of Vitamin B12 and Iron Deficiency."
- 2012 54th ASH Annual Meeting and Exposition, Atlanta, GA "Anemias Beyond, B12 and Iron Deficiency: The Buzz about other B's, "Elementary" and "Non-Elementary" Problems."
- 2009 Fremont-Rideout Health Group Continuing Medical Education Program, Yuba City, CA
"The Role of Vitamins Today"
- 2008 Hem/Onc Today Editorial Retreat at Sea, Key West, FL "Folic Acid: The Good, the Bad and the Ugly"
- 2009 APC Western/Midwestern Regional Meeting, Napa, CA "Supply and Demand in the West: UCs Plan to Balance the Equation in an Expanding Demographic Bubble"
- 2008 APC Annual Meeting, Colorado Springs Meeting Co-organizer and Plenary Session Chair, Pathology Residency and Fellowship "Training: At the Crossroads"
- 2008 Pathophysiology Program, St. Georges University, Grenada Visiting professor
- 2007 Specialty Labs Web Conference (Webinar Broadcast Presentation from UCDMC)
"Active B12: The Next Level of B12 Testing"
- 2007 Fremont-Rideout Health Group Continuing Medical Education Program, Yuba City, CA
"Homocysteine Level Testing"
- 2007 Hem/Onc Today Editorial Retreat, Napa, CA "Red Cells and Hemoglobinopathies"
- 2007 Scripps Cancer Center, 27th Annual Conference, Clinical Hematology and Oncology, La Jolla, "Homocysteine in Hematology: An Unfolding Story"
- 2007 APC Annual Meeting – Colorado Springs Panel Discussion Moderator - Chair, APC CME Committee
- 2007 Scripps Cancer Center, 27th Annual Conference – Clinical Hematology and Oncology – Workshop leader: Clinical Problems in Hematology
- 2007 Grand Rounds, Department of Pathology, University of California, Davis
"Homocysteine, Cardiovascular Disease and B Vitamins – New Developments"
- 2006 APC Annual Meeting – Colorado Springs Workshop Chair
- 2006 Medical Grand Rounds, Shaare Zedek Hospital, Jerusalem, Israel. "Pernicious Anemia: What's New with an Old Disease?"
- 2006 Grand Rounds, Department of Internal Medicine, University of California, Davis
- 2006 American Registry of Pathologists – AFIP, Callandar Binford Lecturer, Washington.
"From Pernicious Anemia to Helicobacter Pylori: Blood and Guts – B12 and Bugs."
- 2005 APC/PRODS/PDAS Annual Meeting, Quebec, Canada. (Meeting Co-organizer, Session Chair, and Speaker) "Translating Training into Expectations of Workplace"
- 2005 John Harris Lecture, Cleveland, OH. "Vitamin B12: Pernicious Anemia and Beyond"
- 2005 ISLH, XVIIIth International Symposium on Technological Innovations in Laboratory Hematology. San Francisco, CA "The Promise of Proteomics."

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- 2004 Lawrence Livermore National Laboratories & Center for Biophotonics – Winter Celebration. (Keynote Speaker) “Stem Cells – Future Directions”
- 2004 American Society of Hematology, San Diego, CA. “Homocysteine Today: The Folate-Cobalamin Connection”.
- 2004 UC Davis Chancellor’s Fall Conference, Granlibakken Lodge, Tahoe City, CA (Session Moderator)
- 2004 West-Midwest APC/PDAS Regional Meeting, Santa Fe, NM “Mission Based Reporting: Better Business or Bean Counting?”
- 2004 ACN 45th Annual Meeting, Long Beach, CA. “Nutritional Causes of Hyperhomocysteinemia”
- 2004 APC Western/Midwestern Meeting, Kohala Coast, HI “Regional Based Pathology Groups”
- 2004 Cleveland Clinic ASH Review, Cleveland, OH “Update on B12 Metabolism – ASH Update.”
- 2004 Clinical Proteomics by Multiplex Analysis workshop, UC Davis Cancer Center and the Department of Pathology and Laboratory Medicine, “The Impact of Multiplex Analysis and Modern Proteomics on Clinical Laboratory Medicine”
- 2003 Grand Rounds, Department of Hematology, University of Southern California, Los Angeles, CA. “B12 Deficiency: New Twists to an Old Tale”
- 2003 AACC, Philadelphia, PA. (Moderator and Speaker) “Vitamin B12: Deficiency, Evolution in Diagnosis and At-Risk Populations”
- 2003 AACC, Philadelphia, PA. “Laboratory Diagnosis of B12 Status”
- 2002 ASH Corporate Friday Symposium, Philadelphia, PA. (Chair and Speaker) “Evolving Concepts in Diagnosis of Vitamin B12 Deficiency”
- 2002 Grand Rounds, Department of Internal Medicine, Ohio State University, Columbus, OH. “Current Concepts Regarding the Causes and Diagnosis of Vitamin B12 Deficiency.”
- 2002 Grand Rounds, Cardiology Faculty and Residents, UC Davis, Sacramento, California
- 2002 PLA Hospital, Beijing, China. “Pathology in the USA: Training Requirements for Residents and Hospital Based Practice of the Specialty.”
- 2002 Yangzhou Medical College, China. “Pathology in the USA: Training Requirements for Residents and Hospital Based Practice of the Specialty.”
- 2002 AACC Workshop Seminar, Orlando, FL. (Chair and Speaker) “Diagnosing Cobalamin (B12) Deficiency: Potential Usefulness of Holotranscobalamin”
- 2002 Ohio State University Internal Medicine Resident Rounds, Columbus, OH. “Anemias and Red Blood Cell Morphology.”
- 2001 Grand Rounds, Department of Internal Medicine Residents, Ohio State University
- 2001 Center for Tissue Regeneration and Repair Seminar, UC Davis, Sacramento, California. “Homocysteine, Vascular Disease and Thrombosis: Biochemical and Molecular Basis”
- 2000 Grand Rounds, Fairview Hospital, Cleveland, OH. “Nutritional Anemia and Homocysteine Cardiovascular Risk Factor”
- 2000 ASH Review, The Cleveland Clinic, Cleveland, OH. “Nutritional Anemias.”
- 1999 ISLH Congress, Durban, So Africa. “Homocysteine and Occlusive Vascular Disease”
- 1999 ISLH Congress, Durban, So Africa. “Vitamin B12 Deficiency in the Elderly”
- 1999 Grand Rounds, Department of Medicine, Ohio State University, Columbus, OH. “Homocysteine and Vascular Disease: Culprit or Bystander?”
- 1998 Grand Rounds, Hematology Division, University of Santiago, “Homocysteine and Vascular Disease”, Santiago, Chile

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1998	Grand Rounds, Department of Internal Medicine, UC Davis, Sacramento, California
1997	Grand Rounds, Department of Pathology, Brookside Hospital. San Pablo, California
1997	Nutritional Biology Graduate Group, University of California, Davis. Davis, California
1996-2008	Visiting Professor, Kingston Medical College & St. George's Medical School, St Vincent and Granada (Annual Teaching).
1992-1996	Medical Student Clerkship Mentor, Ohio State University/Cleveland Clinic
1994	American Society of Hematology Education Program. Nashville, Tennessee
1984-1996	Hematology Teaching Committee, "Biologic Basis of Disease Part II" Case Western Reserve University.
1983-1996	Combined AP/CP Residency Training Program, Cleveland Clinic Foundation
1995	Education Program, American Society of Hematology
1991-1993	ASCP Workshop: "Nutrient Deficiency Anemias: New Approaches to the Diagnosis of Vitamin B12, Folate, and Iron Deficiency."
1993	ASCP Teleconference: "Megaloblastic Anemias"
1990-1992	Medicine in Law Faculty, Cleveland State University/Cleveland Clinic
1989	Intensive Review of Internal Medicine Symposium, Cleveland Clinic Foundation
1984-1985	ASCP Special Workshop: "A Sample Year in a Large Hematology Laboratory"
1983-1984	Becton Dickinson Symposia: "Anemia Diagnosis Update", Los Angeles, San Francisco, Miami, Dallas, Washington D.C., Philadelphia, Cleveland, Boston, New York, Chicago, Toronto
1981-1983	Clinical Hematology Fellowship Training Program, Scripps Clinic, La Jolla, CA
1979-1983	Medical Students Core Program in Hematology, University of California San Diego
1973-1975	Mentor/Supervisor for four Ph.D. candidates, University of the Witwatersrand Medical School, South Africa
1971-1975	Premedical and Medical Student Core Program, University of the Witwatersrand Medical School, South Africa

Research Funding

Title: "Relationship of plasma Vitamin B12 and homocysteine levels with outcomes in SURE-PD2, SURE-PD3 and STEADT PD-III"

Agency: Michael J Fox Foundation

Amount: \$102,692 (UCD Subcontract)

Dates: 11/01/20-10/31/22

co-PI: (PI: Chad Christine UCSF)

Title: "Studies in Vitamin B12 and folate in neurodevelopmental disorders"

Agency: Powell Family Foundation

Amount: \$200,000

Dates: 01/01/19-12/31/21

co-PI: (PI: Ralph Green)

Title: "The Relationship of Vitamin B12 Status on Parkinson's Disease"

Agency: Michael J Fox Foundation

Amount: \$100,000

Dates: 10/01/15-07/31/15

co-PI: (PI: Chad Christine UCSF)

Ralph Green, MD, PhD, FRCPath

Title: "The Relationship of Vitamin B12 Status on Parkinson's Disease"

Agency: Michael J Fox Foundation

Amount: \$69,875

Dates: 10/01/13-09/30/15

co-PI: (PI: Chad Christine UCSF)

Title: "The Gut Microbiome and Vitamin B12 Degradation in the Gastrointestinal Tract"

Agency: EOHSI/NIEHS CEED Pilot Grant

Amount: \$20,000

Dates: 06/01/13-03/01/14

Consultant (PI: Joshua Miller, Rutgers U.)

Title: "Vitamin B6, Vascular Dysfunction and Adhesion Molecules in Sickle Cell Disease"

Agency:NIH (1 R01 HL083276-01A2)

Amount: \$1,453,607

Dates: 04/15/07-04/14/11

PI/co-PI: PI

Title: "A Finger Prick Medical Diagnostic for B12 Malabsorption: An Early Intervention Tool for Dementia and Anemia"

Agency:NIH

Amount: \$471,130

Dates: 7/1/08-6/30/10

PI/co-PI: Co-PI (PI: S.R. Dueker)

Title: "Folate, DNA Methylation, and Breast Tumorigenesis"

Agency:NIH (1 R21 CA116409-01A2)

Amount: \$182,300

Dates: 6/1/07-5/31/10

PI/co-PI: Co-I (PI: J. Miller)

Title: "Assessment of Vitamin B12 Bioavailability from Eggs"

Agency: American Egg Board

Amount: \$295,161

Dates: 6/1/07-5/31/09

PI/co-PI: Co-I (PI: L. Allen)

Title: "Vitamin B6, Vascular Dysfunction and Adhesion Molecules in Sickle Cell Disease"

Agency:Departmental Intramural Grant

Amount: \$100,000

Dates: 09/01/05-08/31/06

PI/co-PI: Co-I (PI: J. Miller)

Title: "Assessment of Vitamin B12 Bioavailability from Beef"

Agency:National Cattlemen's Beef Association

Amount: \$117,358

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Dates: 07/01/05-06/30/07

PI/co-PI: Co-I (PI: L. Allen)

Title: "MeCP2, Methyl Deficiency and Hepatic Tumorigenesis"

Agency: American Cancer Society (RSG-04-266-01-CNE)

Amount: \$605,487

Dates: 07/01/04-06/30/07

PI/co-PI: Co-I (PI: J. Miller)

Title: "B12 Absorption, Kinetics, and Transcobalamin Genotype"

Agency: NIH

Amount: \$297,000

Dates: 05/01/03-04/30/06

PI/co-PI: Co-PI (PI: J. Miller)

Title: "MeCP2, Methyl Deficiency and Hepatic Tumorigenesis"

Agency: UC Davis Health Systems

Amount: \$149,654

Dates: 06/30/03-09/01/04

PI/co-PI: Co-I (PI: J. Miller)

Title: "Pre and Post-Doctoral Training in Nutrition"

Agency: NIH NIDDK (DK07355)

Amount: \$209,102

Dates: 04/01/01-03/31/06

PI/co-PI: Grant Preceptor

Title: "Vitamin B6, Alzheimer's Disease, and Cognitive Function in Older Adults"

Agency: California Department of Social Studies

Amount: \$115,399

Dates: 2001-2003

PI/co-PI: Co-I (PI: J. Miller)

Title: "Effect of Folate and Methyl Deficiency on DNA Methyl- transferases and Methylated DNA Binding Proteins"

Agency: American Institute for Cancer Research

Amount: \$92,027

Dates: 2001-2002

PI/co-PI: Co-I (PI: J. Miller)

Title: "B Vitamin Supplementation in Diabetic Patients with Hyperhomocysteinemia"

Agency: Diabetes Action Research and Education Foundation

Amount: \$25,000

Dates: 2001-2003

PI/co-PI: Co-I (PI: J. Miller)

Ralph Green, MD, PhD, FRCPath

Title: "Holo TC II: A Non-Isotopic Test for Vitamin B12 Absorption"

Agency: USDA

Amount: \$290,282

Dates: 2000-2002

PI/co-PI: Co-PI (R. Green, L.H. Allen)

Title: "Pilot Study of Homocysteine in Alzheimer's Disease"

Agency: Institute for the Study of Aging

Amount: \$178,801

Dates: 2000-2001

PI/co-PI: PI (Co-PI: P. Aisen, M. Sano, R. Diaz-Arrastia)

Title: "The dynamic and kinetic behavior of folate metabolism"

Agency: NIH DK 45939

Amount: \$206,917

Dates: 1999-2002

PI/co-PI: Co-I (PI: A.J. Clifford)

Title: "Folic Acid and Depression in Parkinson's Disease"

Agency: UC Davis "Hibbard"

Amount: \$36,656

Dates: 1999-2001

PI/co-PI: Co-I (PI: L. Allen)

Title: "Prevalence and Consequences of Vitamin B12 Deficiency In the Elderly"

Agency: USDA 5456

Amount: \$163,399

Dates: 1998-2001

PI/co-PI: Co-I (PI: L. Allen)

Title: "Determining Vitamin B12 Status Using a Novel and Direct Measurement of Holotranscobalamin II"

Agency: UC BioSTAR S97-45

Amount: \$185,095

Dates: 1998-2000

PI/co-PI: PI

Title: "Homocysteine: Vascular Biochemistry and Metabolism."

Agency: NIH# R01 HL52234

Amount: \$601,863

Dates: 07/01/95 -06/30/99

PI/co-PI: co-I (DW Jacobsen, and K Kottke-Marchant, Co -PIs, PE DiCorleto, K Robinson)

Ralph Green, MD, PhD, FRCPath

Title: "Vitamin B12 Status in Alzheimer's Disease"

Agency: UC Davis Alzheimer's Disease Center

Amount: \$19,727

Dates: 1995-1998

PI/co-PI: Co-I (PI: J. Miller)

Title: "Homocysteine: Vascular Biochemistry and Metabolism"

Agency: NIH- RO1 HL 52234 01

Amount: \$446,274

Dates: 1994-1997

PI/co-PI: Co-PI (Co-PI: D.W. Jacobsen)

Title: "Continuous Magnetic Cell Sorting"

Agency: NIH-RO1CA12345 01

Amount: \$399,207

Dates: 1994-1997

PI/co-PI: Co-I (PI: M. Zborowski)

Title: "Development of a Continuous Magnetic Cell Separator"

Agency: Whitaker Foundation

Amount: \$81,203

Dates: 1994-1996

PI/co-PI: Co-I (PI: J.J. Chalmers)

Title: "Development of a Novel Assay for Measurement of Serum Holotranscobalamin II"

Agency: Becton Dickinson Corporation

Amount: \$60,000

Dates: 1994 1996

PI/co-PI: PI

Title: "Detection of Masked Deficiencies of Cobalamin or Folate in Multiple Myeloma and Chronic Leukemias Using Serum Metabolite Assays"

Agency: CCF RPC 5094

Dates: 1994-1996

PI/co-PI: Co-I (PI: M.J. Beckmann)

Title: "Prevalence of Hyperhomocysteinemia in Patients with Coronary Artery Disease Undergoing Angiography"

Agency: CCF RPC 4425

Dates: 1994 1996

PI/co-PI: Co-I (PI: K. Robinson)

Title: "Determination of Mechanism of Traumatic Hemolysis Associated with Paravalvular Leaks in Prosthetic Valves"

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Agency:CCF RPC 4339

Dates: 1994 1995

PI/co-PI: Co-I (PI: B. Griffin)

Title: "Determination of HC and MMA Levels in Elderly Subjects with Borderline Serum B12 Levels"

Agency:CCF RPC 3609

Dates: 1993 1995

PI/co-PI: Co-I (PI: L. Groene)

Title: "Selective Separation of T Lymphocytes from Bone Marrow Using Ferritin and a Magnetic Field"

Agency:CCF RPC 3666

Dates: 1993 1995

PI/co-PI: Co-I (PI: M. Zborowski)

Title: "Inborn Errors of Vitamin B12 Metabolism. Methionine Synthase as a site of Mutation and Therapy"

Agency:CCF RPC 2813

Dates: 1993 1994

PI/co-PI: Co-I (PI: E. Pezacka)

Title: "Detection of Occult Vitamin B12 and Folate Deficiency Using Metabolite Assays in Hypothyroidism"

Agency:CCF RPC 4156

Dates: 1993-994

PI/co-PI: Co-I (PI: Y. Y. Chong)

Title: "Allogeneic Bone Marrow Transplantation"

Agency:CCF RPC 3131

Dates: 1992-1993

PI/co-PI: Co-I (PI: B. Bolwell)

Title: "Peripheral Stem Cell Harvesting for Patients with Refractory Malignancy Eligible for Autologous Bone Marrow Transplantation (ABMT)"

Agency:CCF RPC 3188

Dates: 1991-1993

PI/co-PI: Co-I (PI: A.Lichtin)

Title: "Evaluation of New Automated Laboratory Hematology Counter"

Agency:CCF RPC 3484

Dates: 1991-1993

PI/co-PI: PI

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Title: "Autologous Bone Marrow Transplantation Master Protocol"

Agency:CCF RPC 3422

Dates: 1991 1995

PI/co-PI: Co-I (PI: B. Bolwell)

Title: "Intensive Adjuvant Chemotherapy, Late Intensification Therapy and Involved Field Radiotherapy for Stage II or Stage III Breast Cancer In Patients with Involved Axillary Lymph Nodes"

Agency:CCF RPC 4364

Dates: 1990 1993

PI/co-PI: Co-I (PI: B. Bolwell)

Title: "Serum Holotranscobalamin II Levels and Cobalamin Deficiency"

Agency:CCF RPC 3485

Dates: 1990 1992

PI/co-PI: Co-I (PI: Y. T. Goh)

Title: "Photophoresis in the Treatment of Graft vs. Host Disease"

Agency:CCF RPC 3510

Dates: 1990 1991

PI/co-PI: Co-I (PI: A.J. Fishleder)

Title: "Serum Transferrin Receptor Level as a Marker of Malignancy"

Agency:CCF RPC 2985

Dates: 1989 1991

PI/co-PI: Co-I (PI: H. Raaf)

Title: "The Effect of Homocysteine on In Vitro Endothelial Cell Function"

Agency:CCF RPC 3166

Dates: 1989 1991

PI/co-PI: Co-I (PI: K. Marchant)

Title: "DNA Methylation and Megaloblastic Anemia"

Agency:CCF RPC 2741

Dates: 1988 1989

PI/co-PI: Co-I (PI: K. Marchant)

Title: "Improved Criteria for the Early Diagnosis of Iron Deficiency"

Agency:CCF RPC2988

Dates: 1988 1996

PI/co-PI: PI

Title: "Receptors for Lactoferrin on Normal and Neoplastic Cells"

Agency:CCF RPC2061

Dates: 1987 1988

PI/co-PI: Co-I (PI: Y. Yamada)

Ralph Green, MD, PhD, FRCPath

Title: "Profiles of Plasma Sulfur Metabolites in Health and Diseases: Elevated Homocysteine in B12 and Folate Deficiency"

Agency: CCF RPC2093

Dates: 1987 1988

PI/co-PI: Co-I (PI: D. W. Jacobsen)

Title: "B12 Deficiency Coenzyme Synthesis and Interconversion"

Agency: NIH DK35080

Amount: \$237,654

Dates: 1987 1990

PI/co-PI: Co-PI (Co-PI: D.W. Jacobsen)

Title: "Detection of Transcobalamin II Receptors on Normal and Leukemia Cells"

Agency: CCF RPC 1749

Dates: 1986 1987

PI/co-PI: Co-I (PI: T. Amagasaki)

Title: "Receptors for B12 Binding Proteins: Function and Mechanism"

Agency: NIH AM32027

Amount: \$85,428

Dates: 1986 1989

PI/co-PI: Co-PI (Co-PI: D.W. Jacobsen)

Title: "Amino Acid Interrelations in Human Metabolic Disease"

Agency: NIH HD0408

Amount: \$956,980

Dates: 1983 1988

PI/co-PI: Co-I (PI: L. Sweetman)

Title: "Investigative Hematology"

Agency: NIH Training Grant

Amount: \$

Dates: 1979 1983

PI/co-PI: Grant Preceptor

Title: "Iron Chelator Delivery in Red Blood Cell Ghosts"

Agency: NIH HL22479

Amount: \$200,000

Dates: 1979 1983

PI/co-PI: PI

Title: "The Fruit Bat as a Model for Cobalamin Deficiency" (NS13714)

Agency: NIH NS20861

Amount: \$707,802

Dates: 1978 1987

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PI/co-PI: PI
Title: "Clinical Trial of Desferrioxamine in Red Cell Ghosts"
Agency:NIH HL24171
Amount: \$224,249
Dates: 1978 1983
PI/co-PI: PI

Title: "Chelators in Red Cell Ghosts for Iron Cardiomyopathy"
Agency:American Heart Association
Amount: \$29,875
Date: 1978-1981
PI/co-PI: PI

Title: "Development of the Red Cell Ghost as an Improved Delivery System for Iron Chelation Therapy in Thalassemia"
Agency:Cooley's Anemia Foundation:
Amount: \$25,500
Date: 1978-1980
PI/co-PI: PI

Title: "Study of Iron Metabolism"
Agency:NIH AM16452
Amount: \$129,318
Date: 1977-1980
PI/co-PI: Co-PI (Co-PI: W. H. Crosby)

Patents

United States Patent #11/234,079

Assay for Vitamin B12 Absorption and Method of Making Labeled Vitamin B12. Dueker SR, Anderson PJ, Carkeet C, Miller JW, Buchholz BA, Green R, Roth JR. (2005)

European Patent # 95301393.5

Method and Apparatus for Magnetic Cytometry. Zborowski M and Green R. (1995)

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