

## BIOGRAPHICAL AND BIBLIOGRAPHIC INFORMATION

(Last updated: 10/01/17)



### **A. Identifying data:**

Name: Ronald L. Ariagno, M.D.

A handwritten signature in black ink, appearing to read 'Ronald L. Ariagno'.

Professor Emeritus, Pediatrics

Work Address: Stanford University School of Medicine  
Department of Pediatrics  
Division of Neonatal and Developmental Medicine  
750 Welch Road, Suite 315  
Palo Alto, CA 94304-1510  
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<http://neonatology.stanford.edu>  
[RLA@stanford.edu](mailto:RLA@stanford.edu)

### **B. Academic History:**

#### **Education**

1960-1964 BS, Lewis University, Romeoville, IL (Biology and Chemistry)  
1964-1968 MD, University of Illinois College of Medicine

#### **Postgraduate Training**

1968-1969 Straight Pediatric Internship,

Presbyterian-St. Luke Hospital, Chicago, IL

1969-1971 Pediatric Residency,  
Presbyterian-St. Luke Hospital, Chicago, IL

1973-1975 Post-doctoral Research Fellowship at Cardiovascular Research Institute University  
of California School of Medicine, San Francisco, CA  
Mentor, J. P. Brady, MB, BChir, MPH

1973-1975 Post-doctoral Fellowship in Neonatology  
Children's Hospital of San Francisco, CA  
Mentor, J.P. Brady, MB, BChir, MPH Chief of Newborn Intensive Care Program

1974 Post-doctoral Scholarship in Neonatology, (visiting)  
Hospital for Sick Children, Toronto, ON  
Mentors, Professor P.R. Swyer, Chief of Neonatology and H. Bryan, M.D.

### **Board Certification**

1969 National Board  
1973 The American Board of Pediatrics  
1975 Sub-Board of Neonatal-Perinatal Medicine

### **Licensure**

1969 State of Illinois  
1971- 2016 State of California

### **C. Employment History:**

#### **Military Service in United States Armed Forces**

1971-1973 Silas B. Hayes Hospital  
Major, opened new hospital pediatric unit and set up intermediate care nursery  
Fort Ord, California

1973-1975 Reserve Army  
Volunteered for Emergency Room and attended in neonatal intensive care for  
neonatologist on leave at Letterman General Hospital in San Francisco

#### **Academic Appointments**

1975-1981 Assistant Professor of Pediatrics  
Division of Neonatal and Developmental Medicine  
Stanford University School of Medicine

1981-1987 Associate Professor of Pediatrics in Clinical Professoriate

- Division of Neonatal and Developmental Medicine  
Stanford University School of Medicine
- 1987-2008 Professor of Pediatrics  
Division of Neonatal and Developmental Medicine  
Stanford University School of Medicine
- 1975-1992 Associate Director of Premature Research Center  
Stanford University School of Medicine
- 1982-present Preceptor of Training in Neonatal and Developmental Medicine 1993-2004  
Senior Associate Chief  
Division of Neonatal and Developmental Medicine
- 2004-2008 Senior Associate Chief for Academic Affairs  
Division of Neonatal and Developmental Medicine
- 2008-present Professor Emeritus, Pediatrics  
Division of Neonatal and Developmental Medicine
- 2008-present Emeritus Faculty, Academic Council

### **Clinical Appointments**

- 1975-2008 Attending Neonatologist  
Neonatal Intensive Care and Intermediate Intensive Care Nurseries
- 1975-1993 Associate Director of Nurseries  
Stanford University School of Medicine
- 1975-1993 Associate Director of High Risk Infant Follow-up Clinic  
Stanford University School of Medicine
- 2008-2010 Attending Neonatologist  
Intermediate Intensive Care Nursery

### **D. Honors and Awards:**

### **Memberships in Professional Associations and Learned Societies**

- 1974 American Academy of Pediatrics, CA Chapter
- 1974 Fellow of the American Academy of Pediatrics
- 1974 American Academy of Pediatrics, Section on Perinatal Pediatrics;  
2015 renamed Neonatal Perinatal Medicine;  
2015 Section on Advancing Therapeutics and Technology

1978-2008 American Thoracic Society (ATS) Pediatric Assembly, and Respiration,  
Neurobiology, and Sleep Assembly

1979 Western Society for Pediatric Research

1979-1996 California Perinatal Association

1998 National Perinatal Association

1981 Society for Pediatric Research

1982 American Association for the Advancement of Science

1983-2010 California Thoracic Society

1985 American Federation for Clinical Research

1988 Sleep Research Society

1988 American Academy of Sleep Medicine

1988 American Medical Association

1988 California Medical Association

1988 Santa Clara County Medical Society

1993 Society for Neuroscience

1993 American Pediatric Society

1995 European Society for Pediatric Research

1995 California Association of Neonatologists

2010- Public Responsibility in Medicine and Research

### **Academic Honors and Awards**

1964 Lewis University (undergraduate)  
Graduated with highest honors

1968 University of Illinois College of Medicine  
The Francis E. Seneer Clinical Award, from his class in recognition of  
outstanding moral, ethical and personal qualities essential to a fine  
physician

Presbyterian-St. Luke's Hospital, Chicago, IL

1970 Outstanding Resident of the Year Award

1971 Outstanding Resident of the Year Award

1970-71 Selected and served as Chief Resident for training program under Joseph R.  
Christian, M.D., Chair, Department of Pediatrics

1974 University of California San Francisco-Children's Hospital of San Francisco  
Bay Area Heart Research Committee Fellow

1987 Honoree of Fund Raising Event for Sudden Infant Death Syndrome (SIDS)  
Research  
Cebrian Fund Award

1987 Research Award from Orange County, Guild for Infant Survival

1990 Honoree of Fund Raising Event for SIDS Research, Johnson Fund Award

- 1997 “Master Advisor” in recognition of long and distinguished service as freshman advisor at Stanford
- 1998 Bloomingdale’s Fund Award
- 2002 The Senator Daniel E. Boatwright Award for Extraordinary Public Service on Behalf of Californians Touched by Sudden Infant Death Syndrome
- 2009 Recipient of the 8<sup>th</sup> Annual Forum for Improving Children’s Healthcare’s Best Quality Improvement Storyboard Award: “Novel Toolkit for Follow-up Care of the Premature Infant.”
- 2009 National Neonatal Education Award from the American Academy of Pediatrics Section on Perinatal Pediatrics
- 2011 Recognized by the Stanford University Hospital Medical Staff for "clinical excellence and the art of compassionate care" and received a honorary lifetime Medical Staff appointment
- 2014 Received Alumni Achievement Award in the Field of Science from Lewis University, Romeoville, Illinois
- 2015 “Outstanding Service Award” from the Office of Pediatric Therapeutics, Office of the Commissioner, FDA. In recognition of dedication and contributions to Neonatal Product Development (August 13, 2013-August 18, 2015)
- 2017 “In Appreciation for scientific contributions and service to Pediatric Efforts across the Agency and support for the Office of Pediatric Therapeutics” from Office of the Commissioner, U.S. Food and Drug Administration. September 1, 2015 to August 31, 2017

**E. Research Support**

**Past:**

- NIH Research Award (1RO1 HD045653-01), Consultant 2004-2007  
*“Spontaneous Arousals in “CHIME” Infants at Risk for SIDS”*  
 Robert Darnall, Principal Investigator; Dartmouth Medical School
- NIH Research Award (RO1 EY015228), Consultant 2005-2006  
*“The Effects of Prematurity on Visual Development”*  
 William Good, Principal Investigator; Smith-Kettlewell Eye Research Institute
- NIH National Institute of Neurological Disorders and Stroke (NINDS) 2001-2004  
 Research Award (1R21 N5040374-01), Principal Investigator  
*“A new approach to detect CP and brain injury by term age”*

NIH Research Award (1ROI HD/HL35754-01A1), Principal Investigator <i>"Modulation of Circadian Rhythmicity in Pre-Term Infants"</i>	1998-2002
NIH Research Award (HD-29732), Co-Principal Investigator "Sleep and Regulatory Integration: Implications for SIDS"	1992-1998
NIH Research Award (RO1 HD24315-01A2), Principal Investigator <i>"Modulation of Circadian Rhythmicity"</i>	1990-1994
NIH Research Award (HL-34 118-08), Principal Investigator <i>"Lung Function Post Steroids in Chronic Ventilated Infants"</i>	1985-1988
NIH Research Award, Co-investigator <i>"Does Sleep Induce Special Risks in Premature Infants?"</i>	1981-1984
NIH Research Award (RR00081-25), Co-investigator <i>"General Clinical Research Center of Premature Infants"</i>	1975-1992
NIH Research Award (HD-02147-11), Co-investigator <i>"Extrauterine Growth and Adaptation"</i>	1975-1978
NIH Research Award (HD-00049-16), Co-investigator <i>"Developmental Biology and Neonatology"</i>	1975-1979

### **Stanford University**

#### **Past:**

Harman Clinic Endowment Award For development of neuroimaging work station and quality assurance program for MRI scanner at L. Packard Children's Hospital to improve potential for clinical research in Pediatrics	2006-2008
Department of Pediatric Chairman's Research Fund To supplement funding for human breast milk studies	2006-2007
Innovations in Patient Care Award, Co-investigator <i>"Acute Viral Bronchiolitis: Changing the criteria for Home Discharge"</i>	2002-2003
Innovations in Patient Care Award, Principal Investigator <i>"Effect of Nursery Lighting on Length of Stay and Outcomes in the Very Low Birth Weight Infant"</i>	2002-2003
Innovations in Patient Care Award, Principal Investigator <i>"New Approach to Detect Cerebral Palsy in Preterm Infants"</i>	2002-2003
Innovations in Patient Care Award, Packard Foundation, Principal Investigator <i>"Non-pharmacological treatment of reflux in preterm infants"</i>	2001-2002

Innovations in Patient Care Award, Packard Foundation, Principal Investigator 1999-2000  
*"Gastroesophageal Reflux Physiology in Asymptomatic Preterm Infants, A Pilot Study"*

Technology Transfer, Stanford University Hospital Award, Principal Investigator 1989-1991  
*"Pulmonary Assessment of Critically Ill Infants and Young Children to Evaluate Treatment, Management, and Course of Disease"*  
Supported development of novel bedside computerized system to evaluate pulmonary function of critically ill neonatal and pediatric children.

### **Extramural Funding**

#### **Past:**

Gustavus and Louise Pfeiffer Research Foundation, Principal Investigator 2006-2008  
*"The Effect of Breast Milk Protein Supplementation for Improving the Quality and Quantity of Sleep on Brain Development and Neurodevelopmental Outcome in Pre-term Infants"*

The Gerber Foundation, Principal Investigator 2005-2007  
*"The Well-nourished and Sleeping Preterm Infant Will Have Improved Brain Development and Neurodevelopmental Outcome"*

Medimmune, Principal Investigator at Stanford 2004-2005  
*"A Pivotal Phase 3 Study of MEDI-524 an Enhanced Potency Humanized Respiratory Syncytial Virus (RSV) Monoclonal Antibody for the Prophylaxis of Serious RSV Disease in High-Risk Children"*

SIDS Alliance and First Candle, Principal Investigator 2004-2005  
*"Spontaneous Arousal in Preterm Infants: Effect of Gestational Age, Postmenstrual Age and the Risk of SIDS."*

MedImmune, Principal Investigator at Stanford 2002-2003  
*"Phase II, Randomized, Double-Blind, Two-Period, Cross-Over Study To Evaluate the Pharmacokinetics, Safety and Tolerability of a Liquid Formulation of Palivizumab (Medi493, Synagis), A Humanized Respiratory Syncytial Virus Monoclonal Antibody"*

Nellcor Tycos, Principal Investigator 2002-2003  
*"Non-Invasive Patient Monitor Equipment Study"*

SIDS Alliance, Principal Investigator 2001-2002  
*"Arousal Deficiency: An Underlying Mechanism for Sudden Infant Death Syndrome (SIDS)"* Research Project

Sun Microsystems and Anonymous Donor Gift for 1999-2001  
*"Quantitative Analysis of Brain Maturation and Injury in Infants"* Research Project

Mallinckrodt Inc., Principal Investigator 2000-2001  
Non-invasive Patient Monitor Equipment Study

Nellcor Puritan Bennett, Inc., Principal Investigator Non-invasive Patient Monitor Equipment Study	1998-1999
MedImmune, Principal Investigator at Stanford University, Phase III Randomized Multicenter Trial of Recombinant Monoclonal Antibody for RSV Prevention	1996-1998
MedImmune, Principal Investigator at Stanford, Phase I/II Randomized Multicenter, Double Blind, Placebo-Controlled Study to Evaluate Dose, Safety and Tolerance of a Humanized Monoclonal Antibody to RSV, Conducted on Preterm Infants and Infants with Bronchopulmonary Dysplasia	1995-1996
MedImmune, Principal Investigator at Stanford, Phase III Randomized Multicenter, Double Blind, Placebo-Controlled Trial of Respigam Infusions for Reduction of the Rate of RSV Hospitalization in Premature Infants and Infants with Bronchopulmonary Dysplasia	1994-1995
Burroughs Wellcome Grant, Co-investigator <i>"A Multicenter Double-Blind Randomized Parallel Study of the Effects of EXOSURF Prophylaxis on Morbidity, Mortality and Hospital Charges in High Risk Premature Infants, Management, and Course of Disease"</i>	1987-1992
SIDS Alliance, Principal Investigator <i>"Thermoregulation, Sleep, and Breathing in Neonates"</i>	1988-1993
Healthdyne Company Research Award, Principal Investigator <i>"Periodic Breathing and Apnea Risk"</i>	1982-1983

**Current:**

FDA Grant in collaboration with the Pediatric Pulmonary Hypertension Network Group. Chief Scientist Challenge Intramural Grant Application <i>"Investigation of Actigraphy, an Exercise Measure Device, as a Novel, Well-defined, Reliable, Feasible, Easy to use, and Non-Invasive Study Endpoint to Facilitate Pediatric Arterial Hypertension (PPAH) Trials and Drug Development."</i> PI: Haihao Sun, Medical Officer (OPT/OSMP/FDA) Co-PIs: N. Stockbridge, Director (DCRP/CDER/FDA); R. Ariagno, Prof. Neonatal Med (Stanford University); Dianne Murphy, Director (OPT/OSMP/OC/FDA); S. Abman, Prof. Ped Pulmonary Med (U. of Colorado); Dunbar Ivy, Prof. Ped Cardiology (U. of Colorado)	2016-2018
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**Reviewer**

Reviewer for *Acta Paediatrica Scandinavia, American Journal of Diseases of Children, Archives of Disease in Childhood, American Journal of Gastroenterology, Clinical Pediatrics, Developmental Pharmacology, Journal of Perinatology, Journal of Pediatrics, Journal of Applied Physiology, New England Journal of Medicine, Pediatrics, Pediatric Pulmonology, Pediatric Research, Sleep.*



Editorial Board  
Associate Editor, *Journal of Perinatology* 1997-2014

**F. Public and Professional Service:**

**International**

University of Lyon, Hospital St. Eugenie One-Year Research Sabbatical 1981-1982  
Chair of Pediatrics, Prof. R. Gilly and Research, M.J. Challamel, M.D.

Hospital Port-Royale, Paris, France, Three-Month Research Sabbatical, 1985  
L. Curzi-Dascalova, Ph.D.

Trustbank Otago Visiting Professor, University of Otago, 1994  
Dunedin, New Zealand (11/25-12/8)

Visiting Scientists in my Laboratory:

R. Bellon, M.D. 1991  
Hospital St. Eugenie  
Lyon, France

K. Goto, MD, PhD 1998  
Oita Medical University  
Oita, Japan

M. Mirmiran, MD, PhD 1998  
Netherlands Institute for Brain Research  
Senior Research Scientist  
Amsterdam, The Netherlands

Visiting Professor, One-Year Research Sabbatical 1999-2000  
University of Amsterdam, Department of Medical Physics  
with Professor H. Spekreijse, Ph.D. regarding neuroimaging  
in preterm infants

PhD Thesis Committee:

Y.G.H. Maas 2000  
“Early Neurological Development, Growth and Nutrition In  
Very Preterm Infants”  
Academic Medical Center, University of Amsterdam,  
Amsterdam, The Netherlands

V. Ruth, RN, MS 2007  
“Identifying Growth Characteristics in Preterm Infants”  
(research done in my laboratory)  
University of California San Francisco School of Nursing  
San Francisco, California

S. R. Yiallourou 2008  
“Development of Sleep in Infants: Effects of Sleeping Position and Implications for Sudden Infant Death Syndrome”  
Monash Institute for Medical Research  
Monash University Clayton, Australia

Nicole B. Witcombe 2009  
“Development of Cardiovascular Control During Sleep in Infants After Preterm Birth.”  
Ritchie Centre for Baby Health Research  
Monash Institute for Medical Research  
Monash University, Clayton, Australia

Reviewer:

Selvam Ramachandran 2015  
“Effect of Early Physical Therapy Intervention on Singleton Preterm Very Low Birth Weight Infants at High Risk of Developing Motor Development Delay a Randomized Controlled Clinical Trial.”  
Sikkim Manipal University  
5th Mile, Tadong, Gangtok  
East Sikkim, India

Member of International Committee (Wake up Club) 1999-2005  
to define arousal mechanisms in infants

Organized and Funded pilot project in East Pokot, Kenya Africa 2014-  
“Helping Babies Breathe and Essentials of Infant Care Project”  
through Kenya Help Program USA  
University of Indiana and Moi University, Eldoret, Kenya

Medical Student Research in my laboratory at Stanford:

One-year research experience for:

M. Kikkert 1998-1999  
Leiden University School of Medicine  
Leiden, The Netherlands

S. van Liempt and J. Meinardi 2000-2001  
Academic Medical Center  
University of Amsterdam, Amsterdam, The Netherlands

Sabbatical to study the relationship between Academic Centers and 2006-2007  
Community Care of mothers and infants in India (December & January)

King Edward Memorial Hospital,  
Chief of Neonatology, S. Chaudhari, M.D.

for 3 weeks to review research, lecture for residents and teaching rounds.  
Pune, India

Vadu Rural Health Program and Hospital  
Director, S. Hirve, M.D. Epidemiology Research, S. K. Juvekar, Ph.D. (Anthropologist)  
Vadu, India

All India Institute of Medical Sciences  
Professor A. Deorari  
Gave first teleconference lecture  
New Delhi, India

Post Graduate Institute of Medical Education and Research  
K. Praveen, M.D.  
Chandigarh, India

Mahatma Gandhi Institute of Medical Sciences  
S.P. Kilantri, M.D. and Akosh Bang, M.D.  
Sevagram, India

Society Education Action Rural Community Health Care (SEARCH)  
Directors, Abhay and Rani Bang, M.D.  
Gadchiroli, India

Varad Medical Foundation Pediatric Hospital  
Non-Government Organization (NGO) Pediatric Hospital  
K. Rajendra, M.D.  
Aurangabad, India

Vidya Vikas Hospital (NGO)  
V. Pawar, M.D.  
Nashik, India

Anandwan Leprosy Program  
S. Vikas Amte, M.D.  
Chandrapur, India

Visiting Professor, University of Nairobi (July – August) Sabbatical 2007  
to study relationship between academic centers  
and community care of mothers and infants in Kenya.

Professor A. Wasunna, M.D., Chief of Pediatrics and Child Health,  
Kenyatta National Hospital, University of Nairobi; Nairobi, Kenya

Gertrude Garden Children's Hospital, (Non-Government Hospital)  
Dr. Renson Mukhwana, Chief Paediatrician  
Nairobi, Kenya

Mama Darlene Children's Centre & Community Development Projects &  
HIV/AIDS Programme  
Director Eluid Meuma  
Kangundo, Kenya

Served as medical doctor for mobile/bush clinics with Assumption Sisters of Nairobi  
in Naivasha and environs for 2 weeks.

Medical doctor for Longonot Clinic run by Assumption Sisters  
Longonot, Kenya

Visited Naivasha District Hospital  
Naivasha, Kenya

Made home visits in Naivasha's poor community and for Orphanage  
Assisted family in home palliative care for mother with metastatic cancer who was a  
patient at Naivasha District Hospital and wanted to "go home"

Visited Nakuru's Children Center for "street children"  
Established by Fr. D. Kiriti, Nakuru, Kenya

Visited and made rounds at King Fahd Community Hospital  
Gideon Mutua, M.D., Chief Medical Officer and Administrator Lamu, Kenya

Visited F. Artress, Jr., M.D., Director of Foundation  
For African Medicine and Education which has mobile clinic and opened FAME  
Outpatient Clinic April 2008 ([www.fameafrica.org](http://www.fameafrica.org))  
Karatu, Tanzania

Sabbatical in Australia focused on breast milk research, development 2008  
of suck swallow and use of Continuous Positive Airway Pressure (CPAP)  
in the preterm infant (Dec.-Feb.)

Visited laboratories of:

T Omari, Ph.D.  
University of Adelaide, Center for Paediatric & Adolescent Gastroenterology,  
Woman's and Children's Hospital  
Adelaide, Australia

Professor P. Hartmann, Ph.D.  
U. West Australia in Crawley/Perth, School of Biomedical and Chemical Sciences,  
attended "International Society for Research in Human Milk and Lactation"  
Crawley, Australia

R. Horne, PhD and A. Walker, Ph.D.  
Monash Medical Center, Ritchie Centre for Baby Health Research  
Clayton, Australia

Professor N. Saunders, Ph.D.  
U. of Melbourne Dept. of Pharmacology and Center for Neuroscience  
Melbourne, Australia

Professor C. J. Morley, Dept. of Neonatology,  
Director of Research, Royal Children's Hospital,  
U. of Melbourne. Melbourne, Australia

Invitee to the 16th Congress of the Federation of Asia and Oceania  
Perinatal Societies meeting "Bridging Gaps in Maternal-Neonatal Health"  
New Delhi, India (Dec. 14-17) 2010

**International Neonatal Consortium (INC)** 2015-  
originally initiated by Suzie McCune FDA and now administrated by the Critical Path Institute.  
Working Group Member: of Bronchopulmonary Dysplasia, Clinical Pharmacology and Grading  
of Neonatal Adverse Events.

**Pediatric Clinical Trials Stakeholder Forum** participant in planning meeting November 2014  
representing AAP Section on Neonatal Perinatal Medicine (see Special article: 2014 Pediatric  
Clinical Trials Forum Clifford Bogue<sup>1</sup>, Linda A. DiMeglio<sup>2</sup>, Samuel Maldonado<sup>3</sup>, Ronald J.  
Portman<sup>4</sup>, P. Brian Smith<sup>5</sup>, Janice E. Sullivan<sup>6</sup>, Charles Thompson<sup>7</sup>, Heide Woo<sup>8</sup>, Susan Flinn<sup>9</sup>;  
on behalf of the *Pediatric Clinical Trials Stakeholder Forum Planning Committee*. [Pediater Res.](#)  
2016 Apr; 79(4): 662-9. doi: 10.1038/pr.2015.255. Epub 2015 Dec 9.). Pediatric Clinical Trials  
Consortium inaugurated October 2015.

Consultant to Gerald Atwine RN from Uganda and Dr. Gavin Hartman MD, 2016-  
Pediatric Anesthesia resident at Stanford University to set up Medical  
Clinic "Bulamu Healthcare International" ([www.bulamuhalthcare.org](http://www.bulamuhalthcare.org))  
near Kampala

Institute for Advanced Clinical Trials for Children  
(I-Act for Children; <https://www.iactc.org>)  
Member 2017

### National

NIH, National Center for Research Resources, General Clinical  
Research Center (GCRC) 1975-1995  
Association of Program Directors

NIH Consultant regarding use and safety of radiant heat warmers  
and incubators in neonatal care 1979

National Sudden Infant Death Syndrome Foundation 1982  
Ad hoc committee developing the publication "A Handbook for  
Infant Monitoring"

American Academy of Pediatrics 1985

Task Force on Prolonged Infantile Apnea Committee	
The Association for Advancement of Medical Instrumentation, Apnea Monitoring Committee	1985
Planning Program Committee: Conference on Apnea of Infancy, (Co-Chair 1989-90, Chair 1991)	1985
Consultant, NIH Consensus Development Conference, Infantile Apnea and Home Monitoring	1986
Research Committee of the American SIDS Institute to develop intervention for prevention of SIDS in low birth weight infants	1987-1989
Member, NICHD interdisciplinary group, to write two abstracts regarding fetal behavioral development	1996-1997
National Association of Apnea Professionals	1988
American and California Thoracic Societies Committee to write "State-of-the-Art" regarding non-invasive assessment of blood gases	1988-1990
Office of Standards and Regulations, Center for Devices and Radiologic, Health, Food and Drug Admin. U.S. Department of Health and Human Services Consultant on Infant Apnea Monitor: Mandatory Performance Standard Issues	1989
SIDS Advisory Committee, March of Dimes	1989
NIH Nursing Science Review Committee	1990-1994
NIH Grant, Stanley Graven, P.I. Member of the Advisory Committee	1993-1996; 2004
Liaison Representative for Perinatal Section of the Academy of Pediatrics	1993-1996
Chair, Sleep and Sleep Deprivation Study Group	1993-1996
School of Sleep Medicine, invited faculty for Annual Pediatric Sleep Course which has international attendance	1994-2013
American Academy of Pediatrics Perinatal Section Executive Committee	1996-2001
Chair, Subcommittee on Research	2001-2014
Chair of Marshall Klaus Perinatal Research Award Review Committee	2004-2014
Appointed Chair of the "Task Force for Neonatal Therapeutics Development" for the Section on Neonatal and Perinatal Medicine	2015-
Liaison to Section on Advances in Therapeutics and Technology	2016-

Committee on Strategic Planning	1997-1998
Member of Section on International Child Health	2009
Neonatal Resuscitation Program Instructor	2011-
Member of Section on Advances in Therapeutics and Technology	2015
Member of Section of Perinatal Pediatrics (re-named Section of Neonatal Perinatal Medicine)	1974- 2016
Member of Section on International Child Health	2014-
Member of Section on Senior Members	2015-
Member of Section on Clinical Pharmacology and Therapeutics	2017
<b>AAP Clinical Trials Stakeholder Forum</b>	2014
Invited participant in a working group in D.C. to represent the Section on Neonatal Perinatal Medicine to develop a global pediatric trials network.	
Certified Master Trainer, American Academy of Pediatrics “Help Babies Breathe Initiative”	2010
 Western Society for Pediatric Research	
Council Member	2002-2007
President Elect	2004
President	2005-2006
 Medical Student Research Program	2003-2006
Clinical Investigator/Physician Scientist participant sponsored by American Pediatric Society and the Society for Pediatric Research for highly qualified medical students to consider careers in pediatric research and provides a NIH stipend for students to spend 8-10 weeks working under the supervision of an experienced pediatric scientist. Supervised eight medical students and research presented at Pediatric Academic Society annual meetings.	
 Medimmune	
Chair of Medimmune Pediatric Fellowship Grants Review Committee	2008-
Co-Chair of Medimmune Advisory Committee for the Development of Web-based Toolkit for Preterm Infant Follow up Care	2005-
Prematurity Summit presenter, sponsored by Medimmune (Los Angeles, CA, New York, NY and Austin, TX)	2009
 Appointed to FDA Pediatric Advisory Committee as member of the Neonatology Sub-Committee to support and facilitate the basic neonatal science needed and to promote the development of drug and new devices for infants.	2013-
 Senior Oak Ridge Institute for Science and Education (ORISE)	2013-15
50% FTE Appointment as Fellow in Neonatology in the Office of Pediatric Therapeutics and in the Maternal and Pediatric Section, Center for Drug Evaluation and Research at the FDA to help strategize how to facilitate the basic neonatal science research needed and to promote the development of drug and new devices for infants.	

Intergovernmental Personnel Act (IPA) Agreement FDA Office of Pediatric Therapeutics with Stanford University	2015-16 2016-17
25% FTE to continue initiatives begun during ORISE fellowship, mentor new FDA Neonatologist, Gerri Baer; continue scholarly projects and Collaborative research with the Pediatric Pulmonary Hypertension Network Group and the FDA; participate in pediatric and neonatology relevant meetings at the FDA such as Pediatric Review Committee and International Pediatric Global Teleconference.	

**State**

Chair, Northern California Chapter I American Academy of Pediatrics Bioethics Committee	1988-1991
Sudden Infant Death Syndrome (SIDS) Autopsy Committee	1989-2008
Medical Consultant on Board, Bay Area Affiliate of the SIDS Alliance	1991-1995
California Perinatal Association, President Elect	1993-1994
California Perinatal Association, President	1994-1996
Northern California Advisory Council for SIDS Information and Counseling Project	1994-1996
Lecturer for “First Responders” in services for No. CA Consultation and community meetings for parents affected by SIDS	1994-2009
SIDS Advisory Council for the Department of Health Services	1994-1996 2003-2008
American Academy of Pediatrics, District IX Section on Perinatal Pediatrics Chair of District IX	1996-1998
Elected 2nd Term	1999-2001
Past President representative	2001
Appointed to position “Of Counsel”	2008-
Member of Chapter 1 Section on International Child Health	2009-
California Thoracic Society Ad hoc Committee on Perinatal and Pediatric Pulmonary Issues	1998
California Association of Neonatologists Organizing Chair	1994
President	1995
Elected Member on Board of Trustees	2003-2007
Member of Research Planning Committee	2015-
American Academy of Pediatrics Chapter 1 International Child Health Committee	2008-



California Prematurity Summit, Sacramento, CA Invited Presentation	2009
California Association of Neonatologists and American Academy of Pediatrics District IX, "Directors, Newport Beach Conference" Planning Committee and Presenter to address future needs for the health of mothers and infants in California	2010

**University**

General Undergraduate Advisor	1985-1997
Student Conduct Legislative Council	1992-1993
General Clinical Research Center Scientific Advisory Committee	1992-1998
Faculty Club Board of Directors President Elect	1992-1993
President	1994-1995
Advisory Panel on Investment Responsibility President Elect	1993-1994
President	1994-1996
General Clinical Research Center, Pediatric Protocol Review Committee	2000-2008

**School of Medicine**

Medical Center Ethics Committee	1984-1990
Medical Student Faculty Preceptor	1987-1995
Medical Scholars Student Research Program participant	1987
Admissions Panel	1998-1999
Subcommittee, Developmental Neuroscience, Developmental Medicine Theme Group	1989-1990
Appointments and Promotions Committee Vice Chair	1990-1993 1992-1993
Advisory Committee, Stanford University Center for Biomedical Ethics	1990-1995
Faculty Senate Committee of Five	1991-1997 2001-2004 2006-2007

Committee on Student Performance	1995-1999
Chair	1997-1999
Appointments and Promotions Committee Medical Center Line Professorate	1997-1999
Ad Hoc Senate Subcommittee for Academic Priorities for UCSF/Stanford Merger	1997-1999
Panel on Human Subjects in Medical Research Review Committee	2000-
Chair of Panel 4 (25% FTE)	2004-
Reviewer for Panel 8	2007-
Chair of Health Science Research and Epidemiology Review Committee	2005-2006
Chair of Task Force for the new Medical School Faculty Senate By-Laws	2006-2007
Auditing Human Biology 129S: Global Public Health course, Paul H. Wise	Winter 2011
Medical School Class DB 201 (Professor E. Porzig, course director)	2006-2008
Invited annual lecturer “Scientific basis for developmentally supportive care in the newborn intensive care nursery”	
Bioengineering Appointments and Promotion Executive Committee	2006-2008
Faculty appointment in Educator for Care Program	2008-2009
Academic Secretary to the Medical School Faculty Senate	2008-2009

### **Department**

Premature Research Center Advisory Committee, ex officio	1975-1992
Pediatric Scientific Advisory Committee	1993-2008
Director of Pediatrics SIDS Research and Developmental Physiology Laboratory	1982-2008
House Staff Advisory Committee	1990-1995
Lucile Salter Packard Children's Hospital Opening Scientific Symposium Planning Committee	1992-2008
Pediatric Faculty Practice Program Committee	1992-1995
Department Appointment and Promotion Committee	2000-2008
Member, Child Health Research Institute	2011-

### **Hospital (Stanford University)**

Perinatal Outreach Program participating faculty	1975-2010
Mid-Coastal California Perinatal Outreach Program (MCCPOP) Participating faculty for lectures, consultation and review of participating hospitals	1980-2010
Perinatal Morbidity & Mortality Committee	1975-1995
Chair, Neonatal-Perinatal Bioethics Committee	1975-1992
Infection Control Committee	1980-1991
Chaplaincy Pastoral Education Committee	1988-1999
Chaplaincy Pastoral Education Advisor	1988-1999
Chaplaincy Advisory Committee Chair	1975-1993 1988
Perinatal Care Committee	1989-1999
Stanford University Medical Center Committee on Ethics	1988-1990
<b><u>Hospital (Lucile Salter Packard Children's Hospital)</u></b>	
Lucile Salter Packard Children's Hospital Operations Excellence Planning Steering Committee	1990
Lucile Salter Packard Children's Hospital Director of Nursing Search Committee	1990
Medical Director of Respiratory Care	1990-2006
Lucile Salter Packard Children's Hospital Respiratory Care Director Search Committee	1990-1991
Lucile Salter Packard Children's Hospital Task Force Committee for Respiratory Care Services	1990-1991
Director of Pulmonary Function Laboratory Organized, equipped and opened new laboratory	1991-2008
Infection Control Committee for Lucile Salter Packard Children's Hospital	1991-1999
Contributor to the Nursery Guide	1997-2013
Ethics Advisory Committee	1992-1994

Continuing Medical Education (CME) Annual Pediatric Meeting Planning Committee	2002-2008
Pediatric Residency Advisor	2006-08
Center for Advanced Pediatric Education (CAPE, Director: L. Halamek) Certified Simulation Instructor	2007-
CAPE Neonatal Resuscitation Simulation Training Program Co-Director (volunteer)	2012-
International Child Health and Help Babies Breathe Initiative Pediatric Residents Research Mentor	2010-

### **Community**

Locum Tenens Pediatrician:	
Romie Lane Pediatrics, Salinas, California	1972
Marin General Hospital, Marin, California	1974
Seton Community Hospital, San Francisco, California	1974
Emergency Room Physician:	
Watsonville Community Hospital Watsonville, California	1971-1973
Salinas Valley Memorial Hospital Salinas, California	1971-1973
St. Luke's Hospital, San Francisco, California	1973-1975
Rota Care Clinic (East Palo Alto and Menlo Park) Volunteer Pediatrician	1995-1999

### **Major Areas of Research**

- Infant pulmonary function and respiratory control
- Infant brain development, injury and prediction of neurodevelopmental outcome
- Sleep, arousal, thermoregulation and circadian development
- Brain homeostasis mechanisms and sudden infant death syndrome (SIDS)
  - SIDS Research and Developmental Physiology Laboratory was closed in 2008 after 34 years

#### Current Research Focus:

*The promotion of neonatal science needed for the development and approval of new therapies and devices to advance the care of neonates and infants.*

*The Goal of the Task Force for Neonatal Perinatal Therapeutic Development is to use the educational, advocacy, liaison and leadership resources of the AAP and Section on Neonatal and Perinatal Medicine to establish through consensus a culture of investigation and collaboration for all clinical neonatology practices: academic, corporate and community based to maximize the*

opportunity to participate in research effort needed for the regulatory approval of neonatal therapeutics.

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## Chapters

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### **Reviews and Commentaries**

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Development Trials at International Level: Harmonization “Across the Pond”  
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(Note: authors in italics and underlined are medical students who received SPR-APS Research Awards. \* International medical students)