

ROBERT L. BRENT
(Rochester, NY, October 6, 1927)
Distinguished Professor of Pediatrics, Radiology and Pathology
Louis and Bess Stein Professor of Pediatrics
Jefferson Medical College, Philadelphia, PA
Research Department
Alfred I. duPont Hospital for Children, Wilmington, DE

EDUCATION & DEGREES

A.B.	University of Rochester - 1948
M.D. (With Honor)	University of Rochester, Medical School - 1953
Post-doctoral Research Fellow	National Foundation for Infantile Paralysis University of Rochester, Strong Memorial Hospital July 1953 - June 1954
Clinical Fellow and Resident in Pediatrics	National Foundation for Infantile Paralysis, March of Dimes Massachusetts General Hospital July 1954 - June 1955
Ph.D.	University of Rochester Graduate School (Radiation Biology and Embryology), 1955
D.Sc. (hon.)	University of Rochester May 22, 1988
Honorary Professorship	West China University of Medical Sciences, April 26, 1992
Honorary Professorship	Norman Bethune University of Medical Sciences, April 28, 1992

TEACHING AND RESEARCH POSITIONS

Laboratory Instructor - Biology, University of Rochester, 1947-1948
Research Associate - Department of Genetics and Embryology, University of Rochester, Atomic Energy Project, 1947-1950
Research Assistant - Cosmic Ray Laboratory, University of Rochester, Physics Department, 1948-1949
Instructor - Embryology, Department of Anatomy, Chief, Section of Radiation Embryology, Biology Program of the US Atomic Energy Project, University of Rochester Medical School, (Part-time), 1950-1953
Chief, Section of Radiation Biology, Walter Reed Army Institute of Research, 1955-1957
Associate Professor of Pediatrics, Jefferson Medical College, July 7, 1957-60
Clinical Professor of Pediatrics, Jefferson Medical College, November 8, 1960-61
Professor of Pediatrics, Jefferson Medical College, May 1, 1961 - present
Professor of Radiation Biology, Jefferson Medical College, September 1962-present
Director, Stein Research Center, Jefferson Medical College, 1964-1989
Chairman, Department of Pediatrics, November 1965- January 1995
Professor of Pathology and Anatomy, Jefferson Medical College, June 1971-present
Traveling Fellow, Royal Society of Medicine, Marshall Laboratories, Cambridge University, Cambridge, England, 1971-1972
Visiting Fellow, (Sabbatical), Fitzwilliam College, Cambridge, England, 1971-1972
Visiting Professor, (Sabbatical), Hebrew University, Department of Anatomy and Embryology, Jerusalem, Spring, 1983
Distinguished Professor, Jefferson Medical College, Thomas Jefferson University, 1989-present

Director, Division of Developmental Biology, Alfred I. du Pont Hospital for Children, 1989-1992
 Head, Laboratory of Clinical and Environmental Teratology, duPont Hospital for Children, 1992-present
 Clinical Professor of Pediatric, University of South Florida, Voluntary Faculty, 1996-present

SOCIETIES AND APPOINTMENTS

Sigma Xi, 1954
 First five-year Senior Research Fellowship of the National Foundation for Infantile Paralysis, 1955
 American Association for the Advancement of Science, 1956-1995
 Radiation Research Society, 1957-1995
 Philadelphia County Medical Society, 1957
 Society for Pediatric Research, 1958
 American Association of Anatomists, 1959-1978
 Fellow, American Academy of Pediatrics, 1960-present
 American Pediatric Society 1960-present
 American Society for Experimental Pathology, 1960-present
 Philadelphia Pediatric Society, 1960-present
 Teratology Society, 1960-present
 Society for Experimental Biology and Medicine, 1961-1994
 Philadelphia College of Physicians, 1966-present
 American Association of Immunologists, 1966-1982
 The Congenital Anomalies Research Association of Japan, 1966-present
 President-elect Teratology Society, 1967; President Teratology Society, 1968
 Member, Editorial Advisory Board of the Institute for Scientific Information (Current Contents), 1967-1971
 Environmental Hazards Committee of the American Academy of Pediatrics, 1968- 1976
 Scientific Program Committee of Third International Conference on Congenital Malformations, 1965
 Chairman, Medical Advisory Board, Philadelphia Chapter of National Foundation, 1968-1982
 Consultant-Lecturer in General Pediatrics, U.S. Naval Hospital, 1969-1980
 Consultant to the Food and Drug Administration, 1969
 Associate Editor - Teratology, 1969-1976
 Member, Board of Trustees of the Woods School, 1969-1990
 Appointed Council Member, The University of Rochester Medical Alumni Association, 1971-1975
 Chairman, Subcommittee on the Prevention of Fetal and Perinatal Disease, Fogarty International Center, National Institutes of Health, 1972-1973
 Member, NIH Study Section in Human Embryology, 1970-1974
 Member, European Teratology Society, 1971-present
 Council Member, National Council on Radiation Protection & Measurements, 1973-present
 Member, Society for Developmental Biology, Inc., 1976-2001
 Appointed to Medical Advisory Board Pennsylvania Association for Retarded Citizens, 1976
 Re-elected Chairman Medical Advisory Board, National Foundation, 1976-1981
 Elected Editor in Chief of Teratology Journal, 1976-1992
 Appointed to National Science Foundation Panel on Evaluation of Environmental Factors in Reproductive Biology, 1976
 Appointed to Second Task Force for Research Planning in Environmental Health Sciences; Subtask Force on Reproduction, National Science Foundation, 1977
 Appointed to Committee on Environmental Hazards, American Academy of Pediatrics, 1976-1979
 Appointed Consultant to BEIR Committee of National Academy of Sciences, 1976
 Member, Scientific Advisory Council of the Children's Hospital Research Foundation, four year term, effective October 1978-1982
 Appointed to Task Force on Prenatal Diagnosis of the National Institute of Child Health and Human Development, November 1978-1980
 Appointed Member, Pennsylvania State Health Research Advisory Committee, June 1979
 Appointed to the Editorial Board of Fetal Medicine, 1982-1990
 Appointed to the Fertility and Maternal Health Drug Committee of the Food and Drug Administration, 1983-1986
 Appointed Consultant to the Safety Assessment Division, Merck, Sharp & Dohme, 1983-1986
 Re-elected Editor of Teratology, 1982
 Re-elected Editor of Teratology, 1987

Appointed Member, Committee on Research, American Academy of Pediatrics, July 1, 1981 - June 30, 1984
 Appointed to the Editorial Board of Pediatrics, American Academy of Pediatrics, July 1, 1981 - June 30, 1984
 Re-appointed to the Editorial Board of Pediatrics for a second 3-year term, July 1, 1984 - December 31, 1987
 Re-appointed Council Member of the National Council on Radiation Protection and Measurements for a six-year term, 1985-1991
 Appointed Member, Society for Experimental Biology and Medicine Membership Committee, 1986-1990
 Appointed Member, Philadelphia Public Health Advisory Commission, 1986-1988
 Appointed Member, Editorial Board of Fetal Therapy, 1986-1994
 Member, Section on Dermatology, American Academy of Pediatrics, 1986-present
 Appointed as consultant to the Teratogen Information System, 1985-present
 Appointed as committee member to the Teratogen User Group of The National Library of Medicine, 1987-1992
 Re-elected to Board of Trustees, International Life Sciences Institute (ILSI) and Health & Environmental Sciences Institute (HESI), Washington, DC 1993-1996.
 Appointed Fellow of Environmental Health Institute, Pittsfield, Massachusetts
 Appointed to the Committee on Interagency Radiation Research and Policy Coordination, Washington, DC
 Re-elected Member, National Council on Radiation Protection and Measurements, term expires 2003.
 Appointed to the CHIRPIC Committee of the Oak Ridge Associated Universities dealing with the Risks of Electromagnetic Radiation, 1991-1992.
 Member, Society for Pediatric Dermatology, 1992-1996.
 Member, Ambulatory Pediatric Association, 1995-
 Appointed to the Board of Trustees of the Elwyn School, Elwyn, Pa, 1995-1998
 Elected to the Institute of Medicine National Academy of Sciences, 1996.
 Appointed to the Editorial Board of "The Scientist," 1997.
 Elected to the Editorial Board of the Pediatrics Journal, 1997.
 Re-appointed to the Board of Trustees of the Elwyn School, Elwyn, PA, 1998-2001.
 Re-appointed as Section Editor of the Teratology Journal, 2002
 Appointed to the University of Rochester Medical Alumni Council for six-year term, 2002-2008.
 Re-elected to the Board of Trustees of the ILSI/HESI for three-year term, 2002-2005.
 Elected to Honorary Membership in OTIS (Organization of Teratogen Information Services)
 Appointed member of Board of Trustees of the International Society of the Fetus as a Patient 2006
 Appointed member of Board of Trustees of The World Association on Perinatal Medicine 2006
 Appointed member of the Fetus as a Patient Society 2006

AWARDS, HONORS, ENDOWED LECTURESHIPS

Gamma Sigma (Undergraduate, Science), 1947
 Four-year New York State Professional Full Scholarship to the University of Rochester Medical School, 1949
 Alpha Omega Alpha, 1952
 Richie Memorial Prize in Obstetrical and Gynecological Research, 1953
 Career Award, National Institutes of Health, 1962-1966. Relinquished, when appointed to Department Chairmanship
 New Horizons for Radiologists Lecturer, Radiology Society of North America, November 1966
 Honorary Member of Phi Alpha Sigma Fraternity, for Outstanding Teaching and Contributions to the Quality of Medical Education at Jefferson Medical College, 1967
 Recipient of The Christian R. and Mary F. Lindbach Foundation Award for Distinguished Teaching, 1968
 Royal Society of Medicine Traveling Fellow, Marshall Laboratories, Cambridge University, Cambridge, England, 1971-1972
 Fellowship in Fitzwilliam College, Cambridge University, 1971-1972
 Century Forum Lecturer, University of Vermont, December 13, 1978
 Basic Science Forum Lectureship, University of Texas, Dallas, January 31, 1979
 Distinguished Lecturer in Radiation Therapy, New York Roentgen Society Spring Conference, April 26-28, 1979.
 R.B. Miller Lectureship, Beth Israel Hospital, Harvard University, Boston, MA, June 20, 1979
 Keynote Speaker at the International Conference on the Prevention of Congenital Malformations in Strasbourg, France, 1981
 Doctors Hundley Memorial Lecture, Medical and Surgical Faculty of the State of Maryland, Baltimore, MD, 1982
 Lady Davis Scholar Award, Hadassah Medical Center, Hebrew University, 1983-84

Traveling lectureships sponsored by the Japanese Ministry of Health, the Yondata Corporation, and the Japanese Teratology Society, July 1983

Appointed to an endowed chair, The Louis and Bess Stein Professor of Pediatrics, Jefferson Medical College, Thomas Jefferson University, May 1985-present

Traveling Lectureships, sponsored by the Bureau of Health, Peoples Republic of China and the United Nations World Health Organization. Lectures delivered in Taiyuan, Quin Huang Dao, Tianjin and Beijing, May 1986

Recipient of Winged Ox Award for Distinguished Service, Thomas Jefferson University, 1986

Third Annual Dr. Peter Danis Lecturer, Cardinal Glennon Children's Hospital, St. Louis, Missouri, March 25, 1987.

Distinguished Lecturer, Women's Hospital, Tianjin, China, July 1988.

Keynote Speaker, 4th Annual Growth and Challenge: Advances in Perinatal Medicine Conference, Colorado Springs, CO.

Ruth and Harry Bakwin Memorial Lecture, New York University Medical Center, November 1, 1988.

Distinguished Lecturer, The University of Iowa MD-Ph.D. Medical Scientist Training Program, November 18, 1988.

Nina N. Werblow Visiting Professor, New York Hospital-Cornell Medical Center, March 1989.

Distinguished Professor, Jefferson Medical College, Thomas Jefferson University, October 20, 1989.

Burlington Northern Foundation Faculty Achievement Award, June, 1990.

Honorary Membership in The South Atlantic Association of Obstetricians and Gynecologists, March 18, 1991.

Invitado Especial Lecturer, Ashford Community Hospital and the Puerto Rico Medical Association, San Juan, P.R., April 15-19, 1992.

Keynote Speaker, International Society for Biomedical Research on Alcoholism (ISBRA), University of Bristol, Bristol, U.K., June 22, 1992.

Honorary Professorships received from the Norman Bethune University of Medical Sciences in Changchun (April 26, 1992) Jilin, China and the West China University of Medical Sciences in Chengdu, Sichuan, China (April 28, 1992).

Warkany Lecturer at the Annual Meeting of the Teratology Society, Boca Raton, Florida, June 29, 1992.

Hart String Fellow Junior Lecturer, University of Florida, Gainesville, Florida, January 31, 1994.

Landauer Award, Health Physics Society, Endowed Lectureship. Lecture presented February 2, 1995, San Francisco, California.

Festschrift Speaker at the Joseph Dancis Symposium, New York University, March 19, 1996.

Brookings Institute Lecturer, "Radiation Effects on the Fetus", Sponsored by the International Life Science Institute and the National Council on Radiation Protection and Measurements, March 20, 1996.

Keynote speaker at the European Pediatric Ophthalmology Conference, Valencia, Spain, September 20, 1996, "Congenital malformations of the Eye: The Role of Environmental Teratogens.

Keynote speaker at the International Perinatal Conference, Singapore, November 12, 1996, "The Cause and Prevention of Human Birth Defects".

Keynote speaker at the national meeting of the Health Physics Society, July 22, 1996, Seattle, WA

Elected to the Institute of Medicine National Academy of Sciences, 1996.

Elected to Honorary Membership to the National Council on Radiation Protection and Measurements, April 1997

Appointed Program Chairman for the 1997 National Council for Radiation Protection Annual Meeting entitled "Preconception and Postconception Radiation Developmental Biological Risks", held April 2-3, 1997 in Crystal City, VA.

Honorary Member of the Japanese Teratology Society, 1997

Robley D. Evans Commemorative Medal recipient for 2000 of the Health Physics Society for lifelong contributions to the field of radiation biology and embryology, presented June 27, 2000, Denver, Colorado.

Citation of merit received from the Academy of Pediatrics for outstanding performance as a reviewer for the Pediatrics Journal, 2001.

Listed as one of 10 distinguished alumni researchers in the 75th anniversary history of the University of Rochester Medical School, 2001.

Endowed Morgan Lecturer of the Health Physics Society on June 17, 2002 in Tampa, Florida.

Cited as Top Reviewer of the American Journal for Obstetrics and Gynecology, 2001-2002.

Honorary Member of OTIS/Teratology Society, 2003.

Visiting Professor, Weill Medical College of Cornell University, New York Hospital NY, Jamaica Hospital and New York Hospital Medical Center of Queens, , April 21, 2003.

Keynote speaker at the Canadian Radiation Protection Association, Alberta, Canada, May 28, 2003.

Frank Fuchs Lecturer, New York Hospital, Department of Obstetrics, New York City, September 8, 2003.

Invited Lecturer at the NATO/OTAN Advanced Research Workshop in Prague, April 16-18, 2004.

Keynote speaker at the Canadian Radiation Protection Association held in Tadoussac, Quebec, Canada, May 30 – June 1, 2004.

Keynote speaker at the Workshop on EMF and Children sponsored by the World Health Organization at the Crowne Plaza in Istanbul, Turkey, June 9-11, 2004.

Appointed member of The Life Sciences Research Office (LSRO) Report Reviews Health Effects of Mercury from Dental Amalgam Scientific Panel for the National Institute of Dental Research (term of appointment 2003-2004).

Appointed member of the Human Breast Milk Surveillance and Research on Environmental Chemicals in the United States sponsored by the NIH (term of appointment 2004-2005).

Endowed Lectureship at Cornell University Medical School (Fuchs Lecture) February 14, 2005

Failla Lecture of the Health Physics Society and Medical Physics Society, February 15, 2005

Appointed member of the Committee on Toxicity Testing and Assessment of Environmental Agents of the National Academy of Sciences (term of appointment 2004-2007).

Selected as the Taylor lecturer at the NCRP Annual meeting in Washington, DC, April 2006.

Teratology Society created a named annual lectureship to recognize his contributions to the field of teratology (Robert L. Brent lectureship) 2006.

Appointed member of Board of Trustees of the International Society of the Fetus as a Patient 2006.

Appointed member of Board of Trustees of The World Association on Perinatal Medicine 2006

BOOKS AND MONOGRAPHS

- B1. Brent, R.L. and Gorson, R.O.: Radiation Exposure in Pregnancy, Current Problems in Radiology, Vol. 2, 1972.
- B2. Brent, R.L. and Harris, M.L. (Eds): Prevention of Embryonic, Fetal and Perinatal Disease. Bethesda, Maryland, DHEW Publication No., (NIH) 76-853, Vol. 3: 1-411, 1976.
- B3. Brent, R.L.: The Effects of Ionizing Radiation, Microwaves and Ultrasound on the Developing Embryo, Current Problems in Pediatrics, Vol. 19, 1984.
- B4. Sever, J.L. and Brent, R.L. (Eds): Teratogen Update: Environmentally Induced Birth Defect Risks, New York, Alan R. Liss, pp. 1-248, 1986.
- B5. Brent, R.L. and Beckman, D.A. (Eds): Clinics in Perinatology, W.B. Saunders, Philadelphia, Vol. 13: 1-693, 1986.
- B6. Davis, J.G., Bennett, W.R. Jr., Brady, J.V., Brent, R.L., Gordis, L., Gordon, W.E., Greenhouse, S.W., Reiter, R.J., Stein, G.S., Susskind, C. and Trichopoulos, F. ORAU Panel on Health Effects of Low-Frequency Electric and Magnetic Fields, NTIS, #ORAU 92/F-8 and GPO #029-000-00443-9, June 1992.
- B7. Brent, R.L.: Personal Problems of Physicians. Thomas Jefferson University, Philadelphia, 17th edition, 345 pages, 2003.
- B8. Brent, R.L. and Weitzman, M. The Vulnerability and Sensitivity of the Developing Embryo, Infant, Child and Adolescent to the Effects of Environmental Chemicals, Drugs and Physical Agents as Compared to the Adult, 27 chapters published as a Supplement to "Pediatrics" 2004.

MOVIES

- M1. The Making of a Doctor (30 min.)
- M2. Hyaline Membrane Syndrome (12 min.), 1955. [For National Foundation], 1954.
- M3. Respiratory Distress (45 min.), 1955. [For National Foundation], 1954.
- M4. Exchange Transfusion (10 min.), 1955. [For National Foundation], 1954.
- M5. The Diagnosis of Congenital Heart Disease. Co-authors: Mattingly, T. and Geppert L. (2 hrs.), 1957.

PUBLICATIONS

- P1. Wilson, J.G., Brent, R.L. and Jordan, H.C.: Neoplasia induced in rat embryos by roentgen irradiation. *Cancer Research* 12: 222-228, 1952; also appeared in U.S.A.E.C.D. U.R.-183, 1951.
- P2. Brent, R.L.: Problems in obstetrics and gynecology in an era of x-ray and atomic energy. Honors Thesis, University of Rochester Medical School Library, 1953.
- P3. Wilson, J.G., Brent, R.L. and Jordan, H.C.: Differentiation as a determinant of the reaction of rat embryos to x-irradiation. *Proc. Soc. Exp. Biol. Med.* 82:67-70, 1953; also appeared in U.S.A.E.C.D. U.R.-243, 1953.
- P4. Wilson, J.G., Jordan, H.C. and Brent, R.L.: Effects of irradiation on embryonic development. II. X-rays on the ninth day of gestation in the rat. *Amer. J. Anat.* 92: 153-188, 1953; also appeared in U.S.A.E.C.D. U.R.-233, 1952.
- P5. Otis, E.M. and Brent, R.L.: Equivalent ages in mouse and human embryos. *Anat. Rec.* 120: 33-65, 1954; also appeared in U.S.A.E.C.D. U.R.-194, 1952.
- P6. Brent, R.L.: Another possible cause of spontaneous mutations. U.S.A.E.C.D. U.R.-313, 1954.
- P7. Brent, R.L.: The effect of x-irradiation on rat embryos at the twelfth day of gestation. The University of Rochester Medical School Library, p. 240, 1955.
- P8. Brent, R.L. and McLaughlin, M.M.: A laboratory guide to the introduction to the use of isotopes. Walter Reed Army Institute Document, 1956.
- P9. Duffy, B.J., Brent, R.L., Miller, R.W., Maloney, W. and Nelson, R.J.: Radiation hazards in clinical medicine. *Clin. Proc. Child. Hosp.* 13:247-263, 1957.
- P10. Jacobson, A.G. and Brent, R.L.: The fate of I^{131} tagged Rose Bengal in the rat. *Amer. J. Roentgen.* 79:1004-1009, 1958.
- P11. Brent, R.L., McLaughlin, M.M. and Stabile, J.N.: The effect of irradiation on the serum glutamic-oxalacetic transaminase level. *Radiat. Res.* 9:24-32, 1958.
- P12. Jacobson, A.G. and Brent, R.L.: Radioiodine concentration by the fetal mouse thyroid. *Endocrinology* 65:408-416, 1959.
- P13. Brent, R.L. and Geppert, L.G.: The use of radioactive Rose Bengal in the evaluation of infantile jaundice. *Amer. J. Dis. Child.* 98:720-730, 1959.
- P14. Brent, R.L. and McLaughlin, M.M.: The indirect effect of irradiation on embryonic development. I. Irradiation of the mother while shielding the embryonic site. *Amer. J. Dis. Child.* 100:94-102, 1960.
- P15. Brent, R.L.: Effects of prenatal radiation on development in animals. In Proceedings of Effect of Radiation on Sperm, Ova and Embryos, University of Tennessee, 1960. (Atomic Energy Commission Document).
- P16. Brent, R.L.: The indirect effect of irradiation on embryonic development. II. Irradiation of the placenta. *Amer. J. Dis. Child.* 100:103-108, 1960.
- P17. Brent, R.L. and Franklin, J.B.: Uterine vascular clamping: New procedures for the study of congenital malformations. *Science* 132:89-91, 1960.
- P18. Franklin, J.B. and Brent, R.L.: Interruption of uterine blood flow: A new technique for the production of congenital malformations. Comparison of the 8th, 9th, and 10th days of gestation. *Surg. Forum* 11:415-416, 1960.

- P19. Brent, R.L.: The effect of irradiation on the mammalian fetus. *Clin. Obstet. Gynecol.* 3:928-950, 1960.
- P20. Brent, R.L., Averich, E. and Drapiewski, V.A.: Production of congenital malformations using tissue antibodies. I. Kidney antisera. *Proc. Soc. Exp. Biol. Med.* 106:523-526, 1961.
- P21. Weiss, A.J. and Brent, R.L.: The determination of the biologic life span of certain anticancer drugs. *Proc. Amer. Assoc. Cancer Res.* 3:371, 1962.
- P22. Brent, R.L.: Persistent jaundice in infancy. *J. Pediat.* 61:111-145, 1962.
- P23. Brent, R.L. and Ziegler, S.R.L.: Effect of teratogenic kidney-antibody on placenta grown in tissue culture. *Amer. J. Dis. Child.* 104:541, 1962.
- P24. Brent, R.L., Franklin, J.B. and Bolden, B.T.: Modifications of irradiation effects on rat embryos by uterine vascular clamping. *Radiat. Res.* 118:58-64, 1963.
- P25. Franklin, J.B., Goldfarb, A.F., Matsumoto, R. and Brent, R.L.: Modification by progestational compounds of the teratogenic effect of uterine vascular clamping. *Fertil. Steril.* 14:365-369, 1963.
- P26. Brent, R.L.: Modification of teratogenic and lethal effects of irradiation to the mammalian fetus. In: Carlson, W.D. and Gassner, F.X. (Eds), Proceedings of an International Symposium on the Effects of Ionizing Radiation in the Reproductive System, Pergamon Press, New York, 1963, pp. 451-462.
- P27. Brent, R.L.: An individual-unit small animal cage for radiation lethality and longevity studies. *Lab. Anim. Care* 14:207-213, 1964.
- P27A. Brent, R.L.: Drug testing in animals for teratogenic effects: Thalidomide in the pregnant rat. *The Journal of Pediatrics*, 64(5):762-770, 1964. (See P-319)
- P28. Brent, R.L.: The production of congenital malformations using tissue antisera. II. The spectrum and incidence of malformations following the administration of kidney antiserum to pregnant rats. *Amer. J. Anat.* 115:525-542, 1964.
- P29. Franklin, J.B. and Brent, R.L.: The effect of uterine vascular clamping on the development of rat embryos three to fourteen days old. *J. Morph.* 115:273-290, 1964.
- P30. Brent, R.L.: Effects of proteins, antibodies and autoimmune phenomena upon conception and embryogenesis. In: Wilson, J.G. and Warkany, J. (Eds), Teratology, University of Chicago Press, pp. 215-233, 1965.
- P31. Brent, R.L.: Uterine vascular clamping and other surgical techniques in experimental mammalian embryology. In: Wilson, J.C. and Warkany, J. (Eds), Teratology, University of Chicago Press, pp. 233-250, 1965.
- P32. Brent, R.L.: Immunologic aspects of epidemiologic studies of congenital malformations in human embryos and fetuses. Presentation at Japanese-United States seminar on the Epidemiological Studies into the Etiology of Congenital Malformations and Cancer, Tokyo, Japan, November 1-5, 1965.
- P33. Brent, R.L.: Medicolegal aspects of teratology. In: Proceedings of the XI International Congress of Pediatrics, Tokyo, Japan, pp. 8-9, November 7-13, 1965.
- P34. Brent, R.L.: Some biologic properties of teratogenic antisera. *Official Journal of the Congenital Anomalies Research Association of Japan* 6:12-14, 1966.
- P35. Brent, R.L.: Immunologic aspects of developmental biology. In: Woollam, D.H.M. (Ed.), Advances in Teratology, Vol. 1: 82-129, 1966.

- P36. Jensch, R.P. and Brent, R.L.: Rapid schedules for KOH clearing and alizarin red staining of fetal rat bone. *Stain Tech.* 41:179-183, 1966.
- P37. Slotnick, V. and Brent, R.L.: The production of congenital malformations using tissue antisera. V. Fluorescent localization of teratogenic antisera in the maternal and fetal tissue of the rat. *J. Immunol.* 96:606-610, 1966.
- P38. Brent, R.L. and Jensch, R.P.: Intrauterine growth retardation. In: Woollam, D.H.M. (Ed.). Advances in Teratology, Vol. 2, pp. 139-227, 1967.
- P39. Ramseier, H. and Brent, R.L.: Induction of tolerance to maternal tissue homografts by irradiation of the placenta. *Ann. NY Acad. Med.* 129:241-249, 1966.
- P40. Brent, R.L.: The production of congenital malformations using tissue antisera. IV. Evaluation of the mechanism of teratogenesis by varying the route and time of administration of anti-rat kidney antiserum. *Amer. J. Anat.* 119:555-562, 1966.
- P41. George, E.F., Franklin, J.B. and Brent, R.L.: Altered embryonic effects of uterine vascular clamping in the pregnant rat by uterine temperature control. *Proc. Soc. Exp. Biol. Med.* 124:257-260, 1967.
- P42. Brent, R.L.: The production of congenital malformations using tissue antisera. III. Placenta antiserum. *Proc. Soc. Exp. Biol. Med.* 125:1024-1029, 1967.
- P43. Brent, R.L. and Bolden, B.T.: The indirect effect of irradiation on embryonic development. III. The contribution of ovarian irradiation, uterine irradiation, oviduct irradiation and zygote irradiation to fetal mortality and growth retardation in the rat. *Radiation Research* 30:759-773, 1967.
- P44. Brent, R.L.: Medicolegal aspects of teratology. *J. Pediat.* 71:288-298, 1967
- P45. Brent, R.L. and Bolden, B.T.: The indirect effect of irradiation on embryonic development. IV. The lethal effects of maternal irradiation on the first day of gestation in the rat. *Proc. Soc. Exp. Biol. Med.* 125: 709-712, 1967.
- P46. Jensch, R.P. and Brent, R.L.: An analysis of the growth retarding effects of trypan blue in the albino rat. *Anat. Rec.* 159:453-458, 1967.
- P47. Brent, R.L. and Olshin, I.J.: Symposium on recent clinical advances - Foreward *Pediat. Clin. No. Amer.* 15:299-300, 1968.
- P48. Brent, R.L.: Involvement versus noninvolvement. *Pediat. Clin. No. Amer.* 15: 301-311, 1968.
- P49. Brent, R.L., Olshin, I.J., Auerbach, V.H., Carpenter, G.G., DiGeorge, A.M., Mansmann, H.C., Jr., Miller, R.W., Plotkin, S.A. and Schwartz, E.: Concepts re-evaluated. *Pediat. Clin. No. Amer.* 15: 549-558, 1968.
- P50. Brent, R.L.: The biliary system. In: Cook, R.E. et al. (Eds), The Biologic Basis of Pediatric Practice, McGraw-Hill, Inc., pp. 881-886, 1968.
- P51. Brent, R.L.: Liver biopsy. Letter to the Editor. *Pediatrics*, pp. 855-856, 1968.
- P52. Brent, R.L., Bolden, B.T. and Weiss, A.: The use of uterine vascular clamping in the pregnant rat to modify the embryotoxic effects of anticancer drugs. *Cancer Research* 28: 2001-2006, 1968.
- P53. Brent, R.L. and Bolden, B.T.: Indirect effect of x-irradiation on embryonic development. V. Utilization of high doses of maternal irradiation on the first day of gestation. *Radiation Research* 36: 563-570, 1968.

- P54. Brent, R.L.: Experimental and clinical aspects of intrauterine growth retardation. Presentation at the 13th Annual Meeting of the Japan Human Genetics Society and the 8th Annual Meeting of the Congenital Anomalies Research Association of Japan, Tokyo, Japan, April 8-10, 1968.
- P55. Brent, R.L.: Evaluation of developmental effects and teratogenicity of drugs. In: Report of the Fifty-Eighth Ross Conference on Pediatric Research, pp. 78-82, 1968.
- P56. Brent, R.L.: Implications of experimental teratology. Excerpta Medica International Congress Series No. 204: 187-195, In: Proceedings of the Third International Conference on Congenital Malformations, The Hague, The Netherlands, September 7-13, 1969.
- P57. Brent, R.L.: The problems and techniques of utilizing irradiation as a teratogenic tool. In: Nishimura, H. and Miller, J.R. (Eds.) Methods for teratological Studies in Experimental Animals and Man. Proceedings of the Second International Workshop in Teratology, Shoin, Ltd., Kyoto, Japan, pp. 249-254, 1969.
- P58. Brent, R.L.: The direct and indirect effects of irradiation upon the mammalian zygote, embryo and fetus. In: Nishimura, H. and Miller, J.R. (Eds.), Methods for Teratological Studies in Experimental Animals and Man. Proceedings of the Second International Workshop in Teratology. Kyoto, Japan, 1968, Igaku Shoin, Ltd., pp. 63-75, 1969.
- P59. Jensch, R.P. and Brent, R.L.: A simple technique for darkfield photography on immunodiffusion bands. *Applied Microbiology* 8:280-281, 1969.
- P60. Barr, M., Jensch, R.P. and Brent, R.L.: Fetal weight and intrauterine position in rats. *Teratology* 2:241-246, 1969.
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