CURRICULUM VITAE

NAME: Eric J. Hall, B.Sc., M.A., D.Phil., D.Sc., F.A.C.R., F.R.C.R.

PLACE & DATE OF BIRTH: Abertillery, Monmouthshire, Great Britain, July 5, 1933

NATIONALITY: British - U.S. Citizen

DATE MARRIED: July 27, 1957

CHILDREN: One son, born May 24, 1961

EDUCATION

Abertillery Grammar School. School Certificate in seven subjects, July 1948
Higher School Certificate, July 1950, Physics, Chemistry, pure and applied mathematics

Universities

University College, London, 1950-53
B.Sc. with honours in Physics
Oriel College, Oxford, 1959-62
D.Phil. in Radiobiology, 1962
M.A. Honoris Causa, 1966
D.Sc. Honoris Causa, 1977

APPOINTMENTS

Assistant Physicist, Churchill Hospital, Oxford, Oct. 1955-Aug. 1956
Assistant Physicist, Cardiff Radiotherapy Center, Sept. 1956-Jan. 1957
Senior Physicist, Churchill Hospital, Oxford, Jan. 1957-Aug. 1962
Fulbright Exchange Scholar - Visiting Assistant Professor of Radiological Physics at the University of Colorado, 1962-63
Principal Physicist, Churchill Hospital, Oxford, Sept. 1963-Dec. 1968
Professor of Radiology, Columbia University, New York, N.Y., Dec. 1968-1986.
Radiation Biologist, Radiation Oncology Service, Presbyterian Hospital, N.Y. 1983 to date
Director, Center for Radiological Research, July 1984 to present
Professor of Radiation Oncology & Radiology, April 1986-
Higgins Professor of Radiation Biophysics March, 1993-

AWARDS AND HONORS

Honorary Member, Royal College of Radiologists - 1960
Fulbright Exchange Scholar 1962-63
Fourteenth Douglas Lea Memorial Lecturer, Hospital Physicists Asssoc. - 1975
The Roentgen Award of the British Institute of Radiology - 1976

Honorary Fellow, American College of Radiology -1981
Gordon Richards Memorial Lecturer, Canadian Association of Physicists -1982
Barclay Medal, British Institute of Radiology - 1983
Marie Curie Gold Medal, Health Physics Society, Great Lakes Chapter - 1983
Marie Curie Memorial Lecturer, Roswell Park - 1983
Cline Fixott Memorial Lecturer, American Society of Dental Radiologists - 1983
2nd Edith Quimby Mem. Lecturer, Connecticut Chapter Health Phys. Soc.- 1984
Henschke Memorial Lecturer, American Endocurietherapy Society - 1984
Ethel N. Revelson Lecturer, University of Minnesota -1984.
President, Radiation Research Society, 1984-1985
Special Keynote Speaker, ASTRO - 1985
1988 Failla Memorial Lecturer, The Greater New York Chapter of the Health Physics Society - 1989
Weiss Medal, Association for Radiation Research, London - 1990.
Award of Honor, Annual Oration in Radiation Oncology, The Radiological Society of North America - 1990
George Edelstyn Memorial Lecturer, The Royal College of Radiologist - March 1991
The Failla Award, Radiation Research Society, -1991
The Janeway Medal, American Radium Society - April 1992
Silvanus Thompson Memorial Lecturer, Radiology & Oncology 92, Birmingham, UK - May 1992
RSNA Gold Medal - December 1992
Gold Medal, American Society of Therapeutic Radiology & Oncology, New Orleans - 1993
Leicester Atkinson Memorial Lecture of the Clinical Oncology Society of Australia -1994
Gilbert H. Fletcher Distinguished Professor, M. D. Anderson Cancer Center, Houston, Texas -1995
Raymond S. Bush Visiting Professorship, Ontario Cancer Institute Princess Margaret Hospital, Toronto Canada -1995
Fifth Lars Gunnar Larrsson Lecture, Umeå University, Sweden -1996
Sol Y. Eisenberg Lecturer,Wayne State University, Harper Hospital, Detroit - 1996
Friedell Lecturer, Case Western Reserve University, Cleveland, OH -1996
RSNA Outstanding Researcher Award -1996
Gold Medal, Juan Del Regato Foundation - 1997
Twenty-Second Lauriston S. Taylor Lecturer, NCRP, Bethesda MD - 1998
Honorary Fellow, The Royal College of Radiologists, London, UK - 1999
John S. Laughlin, Visiting Professorship, Memorial Sloan-Kettering Cancer Center, NY – 2000
John B. Little Award, Harvard School of Public Health, Boston, MA –2000
Keynote Speaker, ASTRO, San Francisco, CA – 2001
Neuhauser Lecture, Society for Pediatric Radiology, Philadelphia – 2002
The Henry S. Kaplan Distinguished Scientist Award, 12th International Congress of Radiation Research, Brisbane, Australia, 2003
Honorary Fellow, The Society of Radiological Protection, Cardiff, UK - 2005

SOCIETY MEMBERSHIPS

British Institute of Radiology
Association for Radiation Research
European Society of Therapeutic Radiology & Oncology

Radiological Society of North America
Chairman, Subcommittee on Radiation Therapy & Radiobiology of the Program
Committee, 1985-1987
Second Vice President 1989
Radiation Research Society
Finance Committee, 1981
Program Committee, 1975, 1983, 1984, 1988, 1989, 1990, 1992
Councillor, 1977-1980
President-Elect, 1983
President, 1984-1985
Honors & Awards Committee, 1986-1990
American Society for Therapeutic Radiology and Oncology
Secretary 1993,1994, 1995,
Program Committee 1995
Constitution & Bylaws Committee 1995
Program Committee 1986-1988
Long-Range Planning Committee 1986-date
American Radium Society, Inc.
Executive Committee 1990-1992
Program Committee 1992, 1995, 1996
Secretary 1996, 1997
Chair, Program Committee 1997-1999
President 1999-2000
International Association of Radiation Research
Councillor 1983-87
Chairman, Nominating Committee 1987
Program Committee 8th IARR Congress 1987
President-elect 1995-1999
President 1999-2003
American College of Radiology
Radiation Oncology Advisory Group, 1997-1998
Honorary Member of The Society for Pediatric Radiology, Philadelphia 2002-

COMMITTEES

Radiobiology Advisory Committee to NASA, 1971-1975
Radiobiology Committee RTOG (Chairman) 1979 to 1989
American Board of Radiology,
Therapeutic Radiology Test Committee, 1974-date
Committee for Radiation Oncology Studies, 1979-1982
Chairman, Radiotherapy Search Committee, Columbia-Presbyterian Medical Center, 1983 to 1985
National Council on Radiation Protection & Measurements
Member, Committee 40, 1979-1988
Member of Council 1982-date
Member, Finance Committee, 1984-1988

Member, Committee 1, 1988-
Member, Committee 1-3, 1990-1993
Member of the Board, 1993-1999
Member, Committee SC 1-6, 1995-1999

Chairman, ICRU Subcommittee on Neutron Dosimetry for Radiotherapy, 1983-1985

Editorial Work

Associate Editor, Endocurietherapy/Hyperthermia Oncology
Editorial Board, Int. J. Radiat. Oncol. Biol. & Physics, 1975 to 1997
Senior Editor for Biology, Int. J. Radiat. Oncol. Biol. & Physics, 1998-
Int. J. Radiation Biology, 1984

American Cancer Society Study Section on Prevention, Diagnostic and Treatment 1986-1990.

National Academy of Sciences

BEIR V Committee 1986-1989
BRER Committee 1987-1990, 1993-1998
BEIR VI Committee 1993-1998
Boron Neutron Capture Therapy Committee 1990

National Cancer Institute

Radiation Study Section 1974-1978
Cancer Center Support Review Committee 1985-1989
Section, Chairman, NCI Plan for Radiation Research 1987

Program Committee, International Conference on Protectors and Anticarginogens

Columbia University

Member, Faculty Council, College of Physicians & Surgeons
Member, Institutional Safety Committee, College of Physicians & Surgeons

Presbyterian Hospital

Member, Environmental Health & Safety Committee Columbia-Presbyterian Medical Center
Chairman, Joint Radiation Safety Committee, 1985-date
Chairman, Radioactive Drug Research Committee, 1985-date

Publications

Books

Hall, E.J., Radiobiology for the Radiologist. Harper & Row/Lippincott. 1st edition 1973; 2nd Edition 1978; 3rd Edition 1988; Japanese Edition 1979; 4th Edition, JB Lippincott 1994; Fifth Edition, Lippincott Williams & Wilkins, 2000.

Hall, E.J., Radiation & Life. Pergamon Press. 1st Edition 1978; 2nd Edition 1984; French Edition 1979; Arabic Edition 1980; Russia edition 1989.

Hall, E.J., and Rossi, H. H., Californium-252 in Teaching and Research. International Atomic Energy Agency 1974.

Brenner, D. J. and **Hall, E.J**., Making the Radiation Therapy Decision. Lowell House, Los Angeles, 1996.

Hall, E.J. and Brenner, D. J., Principles of the dose-rate effect derived from clinical data. In: Principles and Practice of Brachytherapy. Edited by Joslin, C.A.F., Flynn, A. and Hall, E.J., Arnold 2001, UK., ch. 15:215-221.

Joslin, C.A., Flynn, A. and **Hall, E.J.** Principles and Practice of Brachytherapy; using afterloading systems. Arnold Publishing, London, 2001.

Journal Articles

1. Ellis, F., **Hall, E.J**. and Oliver, R. *A compensator for variation in tissue thickness for high energy beams.* Brit. J. Radiol. **32**:421, 1959.

2. Ellis, F., Lewis, C., Oliver, R. and **Hall, E.J**. *High energy beams - optimal compensation for variations in skin contour.* Proceedings of the 11th International Congress of Radiology, pp.884, 1960.

3. Hall, E.J. *The relative biological efficiency of x-rays generated at 220 kVp and gamma radiation from a Cobalt-60 therapy unit.* Brit. J. Radiol. **34**:313, 1961.

4. Hall, E.J. and Oliver, R. *The use of standard isodose distributions with high energy radiation beams - the accuracy of a compensator technique in correcting for body contours*. Brit. J. Radiol. **34**:43, 1961.

5. Hall, E.J., and Oliver, R. *A pitfall to avoid in ferrous sulphate dosimetry.* Brit. J. Radiol. **34**:397, 1961.

6. Porter, E.H., **Hall, E.J**. and Ellis, F. *Point wedges: a development of wedge filter technique*. Brit. J. Radiol. **34**:655, 1961.

7. Clowes, F.A.L. and **Hall, E.J**. *The quiescent centre in root meristems of Vicia faba and its behavior after acute x-irradiation and chronic gamma radiation.* Radiation Botany **3**:45-52, 1962.

8. Hall, E.J. *A method of deducing a dose response relationship for productive integrity of cells exposed to radiation by means of fractionation experiments*. Brit. J. Radiol. **35**:398, 1962.

9. Hall, E.J**.,** Lajtha, L.G. and Clowes, F.A.L. *The role of the quiescent centre in the recovery of Vicia faba roots from radiation.* Radiation Botany **2**:189-194, 1962.

10. Hall, E.J., Lajtha, L.G. and Oliver, R. *On the interpretation of extrapolation numbers*. Brit. J. Radiol. **35**:71, 1962.

11. Hall, E.J**.,** Lajtha, L.G. and Oliver, R. *X-ray dose response relationship for reproductive integrity of Vicia faba*. Brit. J. Radiol. **35**:388, 1962.

12. Hall, E.J. and Oliver, R. *The use of metal compensators to correct for tissue heterogeneity in radiotherapy with high energy radiation beams*. Brit. J. Radiol. **35**:852, 1962.

13. Bedford, J.S. and **Hall, E.J**. *Survival of HeLa cells cultured in vitro and exposed to protracted gamma irradiation.* Int. J. Radiat. Biol. **7**:377, 1963.

14. Hall, E.J**.** *Dose response relationship for reproductive integrity of Vicia faba deduced from protracted irradiation experiments*. Radiat. Res. **20**:195, 1963.

15. Hall, E.J**.** and Lajtha, L.G. *The recovery of Vicia faba meristem cells from x-radiation.* Radiat. Res. **20**:187-194, 1963.

16. Hall, E.J**.** and Oliver, R. *The use of heavy metal shielding incorporated in stepped compensators for Cobalt-60 therapy*. Brit. J. Radiol. **36**:225, 1963.

17. Hall, E.J. *A rota-wedge technique for therapy with high energy radiation beams.* Radiology **82**:502-507, 1964.

18. Hall, E.J**.** *On the specification of field size for telecobalt units*. Am. J. Roentgenol. Nucl. Med. and Radium Therapy **92**:207, 1964.

19. Hall, E.J**.** and Bedford, J.S. *Dose-rate - its effect on the survival of HeLa cells irradiated with gamma rays*. Radiat. Res. **22**:305, 1964.

20. Hall, E.J. and Bedford, J.S. *A comparison of the effects of acute and protracted gamma irradiation on the growth of seedlings of Vicia faba. Part 1. Experimental observations*. Int. J. Radiat. Biol. **8**:467, 1964.

21. Hall, E.J., Bedford, J.S. and Leask, M.J.M. *Some negative results in the search for a lethal effect of magnetic fields on biological material.* Nature **203**:1086, 1964.

22. Hall, E.J., Bedford, J.S. and Oliver, R. *The effect of protracted irradiation of the roots of Vicia faba.* Brit. J. Radiol. **38**:398, 1965.

23. Bedford, J.S. and **Hall, E.J.** *On the shape of the dose-response curve for HeLa cells cultured in vitro and exposed to gamma irradiation.* Nature (letter) **209**:1363, 1966.

24. Bedford, J.S. and **Hall, E.J.** *Threshold hypoxia: Its effect on the survival of mammalian cells irradiated at high and low dose rates.* Brit. J. Radiol. **39**:896, 1966.

25. Clowes, F.A.L. and **Hall, E.J.** *Meristems under continuous irradiation. Annals of Botany* **30**:243, 1966.

26. Hall, E.J. and Bedford, J.S. *Hypoxia: Its effect on the survival of HeLa cells irradiated with gamma rays in acute (110 rad/min) and protracted (30 rad/hr) exposures*. Proceedings of the 3rd International Congress of Radiation Research, 1966.

27. Hall, E.J. and Bedford, J.S. *Extreme hypoxia:its effect on the survival of mammalian cells irradiated at high and low dose-rates*. Brit. J. Radiol. **39**:302, 1966.

28. Hall, E.J., Bedford, J.S., and Porter, E.H. *The oxygen effect at low dose rate.* Brit. J. Radiol. **39**:958, 1966.

29. Hall, E.J., Oliver, R. and Shepstone, B.J. *Routine dosimetry with Tantalum 182 and Iridium 192 wires*. Acta Radiologica **4**:155, 1966.

30. Hall, E.J., Oliver, R., Shepstone, B.J. and Bedford, J.S. *On the population kinetics of the root meristem of Vicia faba exposed to continuous irradiation.* Radiat. Res. **27**:597, 1966.

31. Bedford, J.S. and **Hall, E.J**. *Chromosome constitution and gamma ray sensitivity; a possible correlation in hamster cells cultured in vitro*. Radiat. Res. **31**:679, 1967.

32. Hall, E.J. *Dose rate and the oxygen effect.* Brit. J. Radiol. (letter) **40**:395, 1967.

33. Hall, E.J. *The oxygen effect: pertinent or irrelevant to clinical radiotherapy*. Brit. J. Radiol. **40**:874 (letter), 1967.

34. Hall, E.J. and Brown, M.J. *Radiosensitivity and the oxygen effect in the synchronously dividing cells of the root meristem of Vicia faba.* Radiobiological Symposium and 5th Annual Meeting of the European Society of Radiation Biology, 1967.

35. Hall, E.J. and Cavanagh, J. *The oxygen effect for acute and protracted radiation exposures measured with seedlings of Vicia faba*. Brit. J. Radiol. **40**:128, 1967.

36. Hall, E.J., Oliver, R. and Bedford, J.S. *The relative biological effectiveness of tritium beta particles compared to gamma radiation - its dependence of dose rate*. Brit. J. Radiol. **40**:704, 1967.

37. LeGrys, E.A. and **Hall, E.J**. *The oxygen effect on synchronous cultures of Chinese hamster cells exposed to x-rays.* Radiobiological Symposium and 5th Annual Meeting of the European Society for Radiation Biology, 1967.

38. Ellis, F., Paine, C.H. **Hall, E.J**. and Shearn, A. *A technique for the instillation of radioactive solutions in radiotherapy.* Brit. J. Radiol. **41**:637, 1968.

39. Hall, E.J. *A review of Supplement 10. Depth dose tables for use in radiotherapy*. Brit. J. Radiol. **41**:932, 1968.

40. Hall, E.J., Brown, J.M. and Cavanagh, J. *Radiosensitivity and the oxygen effect measured at different phases of the mitotic cycle using synchronously dividing cells of the root meristem of Vicia faba*. Radiat. Res. **35**:622, 1968.

41. Hall, E.J. and Laing, A.H. *Growth rate of tumours. Prognostic Factors in Breast Cancer.* (A.P.M. Forrest and P.B. Kunkler eds.), E&S Livingstone, Edinburgh, Scotland, pp.275-287, 1968.

42. Le Grys, L.A. and **Hall, E.J**. *The oxygen effect and x-ray sensitivity in synchronously dividing cultures of Chinese hamster cells.* Radiat. Res. **37:**161, 1969.

43. Berry, R.J. and **Hall, E.J.** *Survival of mammalian cells exposed to x-rays at ultra-high dose-rates.* Brit. J. Radiol. **42**:102, 1969.

44. Hall, E.J. *Time dose and fractionation in radiotherapy*. Brit. J. Radiol. **42**:427, 1969.

45. Hall, E.J**.** *Radiobiological measurements with 14 MeV neutrons.* Brit. J. Radiol. **42**:805, 1969.

46. Hall, E.J. What about radiobiology? Phys. Med. Biol. **14**:154, 1969.

47. Hall, E.J. and Cavanagh, J. *The effect of hypoxia on recovery of sublethal radiation damage in Vicia seedlings.* Brit. J. Radiol. **42**:270, 1969.

48. Winston, B.M., Ellis, F. and **Hall, E.J**. *The oxford NSD calculator for clinical use.* Clinical Radiology **20**:8, 1969.

49. Berry, R.J., **Hall, E.J.** and Cavanagh, J. *Radiosensitivity and the oxygen effect for mammalian cells cultured in vitro in stationary phase.* Brit. J. Radiol. **43**:81, 1970.

50. Hall, E.J. *The effect of hypoxia of sublethal x-ray damage in mammalian cells cultured in vitro.* Proceedings of the IVth International Congress of Radiation Research., Evian, France, 1970.

51. Hall, E.J. and Fairchild, R.G. *Radiobiological measurements with Californium-252.* Brit. J. Radiol. **43**:263, 1970.

52. Hall, E.J. Rossi, H.H. and Roizin, L.A. *Low dose-rate irradiation of mammalian cells with radium and Californium-252. A comparison of effects on an activity proliferating cell population.* Radiology **99:**445-451, 1971.

53. Wilson, C.S. and **Hall, E.J.** *On the advisability of treating all fields at each radiotherapy session.* Radiology **98**:419-424, 1971.

54. Hall, E.J. *Radiobiological measurements with monoenergetic neutrons*. IVth International Biophysics Congress, Moscow, Russia, 1972.

55. Hall, E.J. *The effect of hypoxia on the repair of sublethal radiation damage in cultured mammalian cells*. Radiat. Res. **49**:405-415, 1972.

56. Hall, E.J. *A comparison of radium and Californium-252 using cultured mammalian cells: A suggested extrapolation to radiotherapy*. Radiology **102**:173-179, 1972.

57. Hall, E.J. Review Article: *Radiation dose-rate: a factor of importance in radiobiology and radiotherapy.* Brit. J. Radiol. **45**:81-97, 1972.

58. Hall, E.J. *A determination of the oxygen enhancement ratio for 252Cf using cultured mammalian cells*. Brit.J. Radiol. **45**:284-288, 1972.

59. Hall, E.J., Gross, W., Dvorak, R.F., Kellerer, A.M. and Rossi, H.H. *Survival curves and age response functions for Chinese hamster cells exposed to x rays or high LET alpha particles.* Radiat. Res. **52**:88-98, 1972.

60. Hall, E.J., Gross, W. and Rossi, H.H. *Recent experiments with accelerated nitrogen ions*. Proceedings of the Fifteenth Plenary Meeting, COSPAR, Madrid, 1972.

61. Borek, C. and **Hall, E.J.** *Transformation of mammalian cells in vitro by low doses of x-rays.* Nature **243**:450-453, 1973.

62. Hall, E.J. *Radiobiology of heavy particle radiation therapy: Cellular studies.* Radiology **108**:119-129, 1973.

63. Hall, E.J. and Kellerer, A.M. *The biophysical properties of 3.9 GeV nitrogen ions. III. OER and RBE determination using Vicia seedlings.* Radiat. Res. **55**:422-430, 1973.

64. Hall, E.J. and Lehnert, S. *The biophysical properties of 3.9 GeV nitrogen ions. IV. OER and RBE determinations using cultured mammalian cells.* Radiat. Res. **55**:431-436, 1973.

65. Hall, E.J., Rossi, H.H., Kellerer, A.M., Goodman, L. and Marino, S. *Radiobiological studies with monoenergetic neutrons*. Radiat. Res. **54**:431-443, 1973.

66. Rossi, H.H., **Hall, E.J.** and Kellerer, A.M. *Biophysical factors in brachytherapy with low and high LET radiations*. Radiology **107**:645-649, 1973.

67. Borek, C. and **Hall, E.J.** *Effect of split doses of x rays on neoplastic transformation of single cells.* Nature **252**:499-501, 1974.

68. Hall, E.J. *RBE and OER values as a function of neutron energy*. Europ. J. Cancer **10**:297-299, 1974.

69. Hall, E.J. and Chapman, J.D. *Radiosensitization of hypoxic cells with Metronidazole.* Brit. J. Radiol. **47**:513-514, 1974.

70. Hall, E.J., Lehnert, S. and Roizin-Towle, L. *Split dose experiments with hypoxic cells. Implications for fractionated and low dose-rate radiotherapy*. Radiology **112**:425-430, 1974.

71. Hall, E.J., Novak, J. K., and Marino, S. *Comparative radiobiological measurements with two high-energy cyclotron-produced neutron beams presently used for radiotherapy*. Brit. J. Radiol. **47**:882-887, 1974.

72. Hall, E.J., Roizin-Towle, L. and Colvett, R.D. *RBE and OER determinations for radium and Californium-252.* Radiology **110**:699-704, 1974.

73. Hall, E.J., Roizin-Towle, L., Theus, R.B. and Attix, F.H. *Radiobiology with the neutron beam at the NRL cyclotron.* Transactions of the American Nuclear Society **19**:51, 1974.

74. Schulman, N. and **Hall, E.J.** *Hyperthermia: its effect on proliferative and plateau phase cell cultures.* Radiology **113:**209-211, 1974.

75. Hall, E.J. *Biological problems in the measurement of survival at low doses.* Proceedings of the 6th L.H. Gray Conference, London, England, 1975.

76. Hall, E.J. *A review of high LET facilities, existing and projected, with emphasis on the radiobiological aspects*. Canadian Journal of Radiology **26**:3-14, 1975.

77. Hall, E.J., *The potential gain from neutrons.* Int. J. Rad. Oncol. **1**:165, 1975.

78. Hall, E. J. Review Article: *The potential of Californium-252 in radiotherapy*. Brit. J. Radiol. **48**:777-790, 1975.

79. Hall, E.J., Novak, J.K., Kellerer, A.M., Rossi, H.H., Marino, S. and Goodman, L. *RBE as a function of neutron energy. I. Experimental observations.* Radiat. Res. **64**:245-255, 1975.

80. Hall, E.J. and Roizin-Towle, L. *Hypoxic sensitizers: Radiobiological studies at the cellular level.* Radiology **117**:453-457, 1975.

81. Hall, E.J., Roizin-Towle, L.A. and Attix, F.H. *Radiobiological studies with cyclotron-produced neutrons currently used for radiotherapy.* Int. J. Radiat. Oncol. Biol. Phys. **1**:33-40, 1975.

82. Hall, E.J., Roizin-Towle, L.A., Theus, R.B. and August, L.S. *Radiobiological properties of high energy cyclotron produced neutrons used for radiotherapy*. Radiology **117**:173-178, 1975.

83. Hall, E.J. and Rossi, H.H. *Cellular studies with cyclotron produced neutrons.* Radiat. Res. **62**:554 (Abstr.), 1975.

84. Harisiadis, L., **Hall, E.J.,** Kraljevic, U. and Borek, C. *Hyperthermia: Biological studies at the cellular level.* Radiology **117**:447-452, 1975.

85. Horowitz, I. A., Norwint, H. and **Hall, E. J.** *Conditioned medium from plateau-phase cells.* Radiology **114**:723-726, 1975.

86. Roizin-Towle, L.A. and **Hall, E.J**. *Cellular studies with hypoxic sensitizers*. Radiat. Res. **62**:567, 1975.

87. Hall, E.J**.** *Radiation and the single cell: The Physicist`s contribution to radiobiology.* (Fourteenth Douglas Lea Memorial Lecture) Phys. Med. Biol. **21**:347-359, 1976.

88. Hall, E.J. and Kraljevic, U. *Repair of potentially lethal radiation damage: Comparison of neutron and x-ray RBE and implication for radiation therapy*. Radiology **121**:731-735, 1976.

89. Kellerer, A.M., **Hall, E.J.,** Rossi, H.H. and Teedla, P. *RBE as a function of neutron energy. II. Statistical analysis.* Radiat. Res. **65**:172-186, 1976.

90. Hall, E.J. *Radiobiological intercomparisons in vitro. II. Neutrons.* Int. J. Radiat. Oncol. Biol. Phys. **3**:195-201, 1977.

91. Hall, E.J. *"Biology" (Conference Summary).* Int. J. Radiat. Oncol. Biol. Phys. **3:**423-424, 1977.

92. Hall, E.J., Astor, M., Geard, C.R. and Biaglow, J. *Cytotoxicity of Ro-07-0582; enhancement by hyperthermia and protection by cysteamine.* Brit. J. Cancer **35**:809-815, 1977.

93. Hall, E.J. and Biaglow, J. *Ro-07-0582 as a radiosensitizer and cytotoxic agent.* Int. J. Radiat. Oncol. Biol. Phys. **2**:521-530, 1977.

94. Hall, E.J., Bird, R.P., Rossi, H.H., Coffey, R., Varga, J. and Lam, Y.M. *Biophysical studies with high energy argon ions. 2. Determinations of the relative biological effectiveness, the oxygen enhancement ratio, and the cell cycle response*. Radiat. Res. **70**:469-479, 1977.

95. Hall, E.J., Geard, C.R., Coffey, R.J. and Hall, B.E. *Measurements of the oxygen enhancement ratio for high energy neutrons at the Fermilab.* Int. J. Radiat. Oncology Biol. Phys. **2**:105-110, 1977.

96. Hall, E.J., Geard, C.R., Povlas, S. and Astor, M. *The oxygen enhancement ratio for high energy neutrons*. Brit. J. Radiol. **50**:679-680, 1977.

97. Harisiadis, L., Sung, L. and **Hall, E.J.** *Thermal tolerance and repair of thermal damage by cultured cells.* Radiology **123**:505-509, 1977.

98. Borek, C., **Hall, E.J.** and Rossi, H.H. *Malignant transformation in cultured hamster embryo cells produced by x-rays, 430 keV monoenergetic neutrons, and heavy ions.* Cancer Research **38**:2997-3005, 1978.

99. Geard, C.R., Povlas, S.F., Astor, M. and **Hall, E.J.** *Cytological effects of 1-(2-nitro-1-imidazolyl)-3-methoxy-2-propanol (Misonidazole) on hypoxic mammalian cells in vitro*. Cancer Res. **38**:644-649, 1978.

100. Hall, E.J. *The promise of low dose rate: Has it been realized?* Int. J. Radiat. Oncol. Biol. Phys. **4**:749-750 (editorial), 1978.

101. Hall, E.J., Astor, M. and Rini, F. *The nitroimidazoles as radiosensitizers and cytotoxic agents.* Brit. J. Cancer **37**:120-123 (Suppl. III), 1978.

102. Hall, E.J., Kellerer, A.M., Rossi, H.H. and Lam, Yuk-Ming. *The relative biological effectiveness of 160 MeV Protons. II. Biological data and their interpretation in terms of microdosimetry*. Int. J. Radiat. Oncol. Biol. Phys. **4**:1009-1013, 1978.

103. Hall, E.J. and Lam, Yuk-Ming. *The Renaissance in low dose-rate interstitial implants.* Front. Radiat. Ther. Oncol. **12**:21-34, 1978.

104. Harisiadis, L., Miller, R.C., **Hall, E.J.** and Borek, C. *A vitamin A analogue inhibits radiation-induced oncogenic transformation*. Nature **274**:486-487, 1978.

105. Harisiadis, L., Sung, Duk, II, Kessaris, N. and **Hall, E.J.** *Hyperthermia and low dose-rate irradiation.* Radiology **129**:195-198, 1978.

106. Miller, R. and **Hall, E.J.** *X-ray dose fractionation and oncogenic transformation in cultured mouse embryo cells*. Nature **272**:58-60, 1978.

107. Miller, R.C. and **Hall, E.J**. *Oncogenic transformation in vitro by the hypoxic cell sensitizer Misonidazole*. Brit. J. Cancer **38**:411-417, 1978.

108. Roizin-Towle, L. and **Hall, E.J.** *Studies with bleomycin and misonidazole on aerated and hypoxic cell.* Brit. J. Cancer **37**:254-260, 1978.

109. Roizin-Towle, L., **Hall, E.J.,** and Liu, J.C. *The effects of misonidazole on the ultrastructure of V79 hamster cells in culture.* Brit. J. Cancer **37**:254, 1978.

110. Astor, M. and **Hall, E.J.** *Misonidazole and MTDQ in combination: Cytotoxic and radiosensitizing properties in hypoxic mammalian cells.* Brit. J. Cancer **39:**510-515, 1979.

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