National Council on Radiation Protection and Measurements 7910 Woodmont Avenue, Suite 800 Bethesda, Maryland 20814

NCRP/M/93/58

CURRICULUM VITAE OF CURRENT MEMBER

Name	Adelstein, S(tanley) James Harvard Medical School				
Address					
	25 Shattuck Street	Boston	MA	02115	
	Street	City	State	Zip	
Birth Date	FX4				
Education	Institution	Field of Study	Degree	Year Conferred	
Massachusetts Institute of Tech. Harvard University		Physical Biology Medicine	BS, MS MD	EXL	
Massachusetts Institute of Tech.		Biophysics	PhD		

Professional Experience (Two most recent past positions)

Position Title	Organization	Dates
Paul C. Cabot Professor of Medical Biophysics	Harvard Medical School	1939-7
(Executive) Dean for Academic Programs	Harvard Medical School	¥1978-

Service on committees, panels, study sections, etc. (of the NCRP and other organizations)^{NCRP} (Vice-Presiden SC-1, 32, 83); IOM (Interdisciplinary Research BioMedical Isotopes); Whitaker Foundation

(Fellowship Advisory Boards) Society Affiliations ______ Radiation Research Soc.; Society Nuclear Medicine; American College Nuclear Physicians; Biophysical Society

Honors Aebersold & Blumgart Awards, Soc. Nuclear Medicine; Elected Member IOM; Elected Fellow AAAS.

Publications (Attach list of representative publications) (See Attached)

Areas of interest related to NCRP activities (Select no more than three from enclosed list).

	Nuclear Medicine RTTONS, EX 6
	Radiobiology IVA I D
	Radiation Chemistry
Date	Signature 8. A. Roelberg

S. James Adelstein

Professor

Massachusetts Institute of Technology, Cambridge, MA

Harvard University, Cambridge, MA Massachusetts Institute of Technology



Physical Biology

Biophysics

- 1953-1954 Medical House Officer, Peter Bent Brigham Hospital, Boston MA
- 1954-1957 Fellow of the National Foundation at the Biophysics Research Laboratory, Peter Bent Brigham Hospital
- 1957-1958 Senior Associate Resident Physician and Fellow of the Howard Hughes Medical Institute, Peter Bent Brigham Hospital
- 1958-1959 Moseley Traveling Fellow (Harvard) (Radiobiology and Radiation Chemistry), Cambridge University, UK
- 1959-1960 Assistant in Medicine, Chief Resident Physician, Peter Bent Brigham Hospital
- 1961-1963 Instructor in Anatomy, Harvard Medical School, Boston MA
- 1963-1965 Associate in Anatomy, Harvard Medical School
- 1963-1968 Associate in Medicine, Peter Bent Brigham Hospital
- 1964-1968 Senior Associate in Radiology, Peter Bent Brigham Hospital
- 1965-1968 Assistant Professor of Anatomy, Harvard Medical School
- 1968-1972 Associate Professor of Radiology, Harvard Medical School
- 1968-1992 Director, Division of Nuclear Medicine, Peter Bent Brigham Hospital/Brigham and Women's Hospital
- 1970- Director, Joint Program in Nuclear Medicine, Harvard Medical School
- 1972-1989 Professor of Radiology, Harvard Medical School
- 1978-1990 Dean for Academic Programs, Harvard Medical School
- 1989- Paul C. Cabot Professor of Medical Biophysics, Harvard Medical School
- 1991- Executive Dean for Academic Programs, Harvard Medical School

Honors

Alpha Omega Alpha; Tau Beta Pi; Sigma Xi; Henry A. and Camillus Christian Fellow, Harvard Medical School, 1959-1960; NIH Career Development Award, 1965-1968; Fogarty Senior International Fellow, USPHS, 1976; Hermann L. Blumgart Pioneer Award, 1983; Elected Member, Institute of Medicine of the National Academy of Sciences, 1985; Paul Aebersold Award in basic nuclear medical science, 1986; Elected Fellow, American Association for the Advancement of Science, 1987

Publications (total of 191)

Kassis Al, Adelstein SJ, Haydock C, Sastry KSR, McElvany KD, Welch MJ. Lethality of Auger electrons from the decay of bromine-77 in the DNA of mammalian cells. Radiat Res 1982; 90:362-373.

- Kassis AI, Sastry KSR, Adelstein SJ. Intracellular distribution and radiotoxicity of chromium-51 in mammalian cells: Auger-electron dosimetry. J Nucl Med 1985; 26:59-67.
- Kassis Al, Harris CR, Adelstein SJ, Ruth TJ, Lambrecht R, Wolf AP. The in vitro radiobiology of astatine-211 decay. Radiat Res 1986: 105:27-36

- Kassis AI, Sastry KSR, Adelstein SJ. Kinetics of uptake, retention, and radiotoxicity of ³¹⁵IUdR in mammalian cells: Implications of localized energy deposition by Auger processes. Radiat Res 1987; 109:78-89
 - Kassis Al, Fayad F, Kinsey BM, Sastry KSR, Taube RA, Adelstein SJ. Radiotoxicity of ¹²⁵Lin mammalian cells. Radiat Res 1987; 111:305-318.
 - Kinsey BM, Kassis AI, Fayad F, Layne WW, Adelstein SJ. Synthesis and biological studies of iodinated (127/125) derivatives of rhodamine 123. J Med Chem 1987; 30:1757-1761.
 - Macklis RM, Kinsey BM, Kassis AI, Ferrara JLM, Atcher RW, Hines JJ, Coleman CN, Adelstein SJ, Burakoff SJ. Radioimmunotherapy with alpha-particle-emitting immunoconjugates. Science 1988; 240:1024-1026.
 - Kassis AI, Fayad F, Kinsey BM, Sastry KSR, Adelstein SJ. Radiotoxicity of an ¹²⁵I-labeled DNA intercalator in mammalian cells. Radiat Res 1989; 118:283-294.
 - Makrigiorgos GM, Kassis AI, Baranowska-Kortylewicz J, McElvany KD, Welch MJ, Sastry KSR, Adelstein SJ. Radiotoxicity of 5-[¹²³]iodo-2'-deoxyuridine in V79 cells: A comparison with 5-[¹²⁵]iodo-2'-deoxyuridine. Radiat Res 1989; 118:532-544.
 - Baranowska-Kortylewicz J, Adelstein SJ, Kassis Al. 5-lodo-2'-deoxyuridine-protein conjugates: Synthesis and enzymatic degradation. Select Cancer Ther 1990; 6:1-13.
 - Kassis AI, Makrigiorgos GM, Adelstein SJ. Implications of radiobiological and dosimetric studies of DNAincorporated ¹²³I: The use of the Auger effect as a biological probe at the nanometre level. Radiat Prot Dosim 1990; 31:333-338.
 - Kassis Al, Van den Abbeele AD, Wen PYC, Baranowska-Kortylewicz J, Aaronson RA, DeSisto WC, Lampson LA, Black PMcL, Adelstein SJ. Specific uptake of the Auger electron-emitting thymidine analogue 5-[¹²³]/¹²⁵]iodo-2'-deoxyuridine in rat brain tumors: Diagnostic and therapeutic implications in humans. Cancer Res 1990; 50:5199-5203.
 - Kinsey BM, Fayad F, Venkateshan CN, Adelstein SJ, Kassis AI. Synthesis and biological activity of the intercalating agent 3-acetamido-5-[^{123/125}]iodo-6-aminoacridine. Nucl Med Biol 1990; 17:341-346.
 - Makrigiorgos GM, Adelstein SJ, Kassis AI. Cellular radiation dosimetry and its implications for estimation of radiation risks. Illustrative results with technetium 99m-labeled microspheres and macroaggregates. JAMA 1990; 264:592-595.
 - Makrigiorgos GM, Ito S, Baranowska-Kortylewicz J, Vinter DW, Iqbal A, Van den Abbeele AD, Adelstein SJ, Kassis AI. Inhomogeneous deposition of radiopharmaceuticals at the cellular level: Experimental evidence and dosimetric implications. J Nucl Med 1990; 31:1358-1363.
 - Whaley JM, Kassis AI, Kinsey BM, Adelstein SJ, Little JB. Mutation induction by ¹²⁵iodoacetylproflavine, a DNA-intercalating agent, in human cells. Int J Radiat Biol 1990; 57:1087-1103.
 - Baranowska-Kortylewicz J, Makrigiorgos GM, Van den Abbeele AD, Berman RM, Adelstein SJ, Kassis Al. 5[¹²³l]lodo-2'-deoxyuridine in the radiotherapy of an early ascites tumor model. Int J Radiat Oncol Biol Phys 1991; 21:1541-1551.
 - Van den Abbeele AD, Aaronson RA, Daher S, Taube RA, Adelstein SJ, Kassis AI. Antigen-binding site protection during radiolabeling leads to a higher immunoreactive fraction. J Nucl Med 1991; 32:116-122.
 - Kassis AI, Guptill WE, Taube RA, Adelstein SJ. Radiotoxicity of 5-[¹²⁵]]iodo-2'-deoxyuridine in mammalian cells following treatment with 5-fluoro-2'-deoxyuridine. J Nucl Biol Med 1991; 35:167-173.
 - Makrigiorgos GM, Berman RM, Baranowska-Kortylewicz J, Bump E, Humm J, Adelstein, SJ, Kassis Al. DNA damage produced in V79 cells by DNA-incorporated iodine-123: A comparison with iodine-125. Radiat Res 1992; 129:309-314.
 - Van den Abbeele AD, Baranowska-Kortylewicz J, Adelstein SJ, Carvalho PA, Tutrone RF, Richie JP, Wen PYC, Black PMcL, Mariani G, Kassis AI. Diagnostic and therapeutic applications of Auger-electronemitting 5-[¹²³]/¹²⁵]iodo-2'-deoxyuridine in cancer. In: Howell RW, Narra VR, Sastry KSR, Rao DV, eds. Biophysical aspects of Auger processes, AAPM Symposium Series No 8. Woodbury, NY: American Institute of Physics, 1992:372-395.