

OCT 16 1996

Louis M. Izzo, Director
University of Vermont
Rowell Building
Burlington, Vermont 05405

Dear Mr. Izzo:

This is in reference to your letter dated September 24, 1996 notifying the NRC that Dr. J. Patrick O'Neill will be the responsible supervisor for the Nordion International Gammacell 1000 Model B Blood irradiator. Your letter dated September 24, 1996 is accepted as notification. No further correspondence on this matter is required.

Your cooperation is appreciated.

Sincerely,

Original Signed By:
Kathleen Dolce

Kathleen Dolce
Division of Nuclear Materials Safety

License No. 44-01998-06
Docket No. 030-09010
Control No. 123742

DOCUMENT NAME: R:\WPS\MLTR\L4401998.06

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OFFICE	DNMS/RI	N	DNMS/RI				
NAME	Dolce\kd1						
DATE	10/16/96		10/ /96		10/ /96		10/ /96

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TELEPHONE CONVERSATION RECORD	Date: 10/1/96	Time: 2:15 PM
Mail Control No.: 123742	License No.: 44-01998-06	Docket No.: 030-09010
Person Called: Lou Izzo	Licensee: Univ. of VT	Telephone No.: 802.656.2570
Person Calling: Kathleen Dolce / (610) 337-5251		
Subject: Training as described in application dated 11/22/93		
Summary: Licensee stated that Dr. O'Neill successfully completed the training as described in application dated 11/22/93.		
Action Required/Taken: Prepare amendment		
Signature: <i>K. Dolce</i>	Date: 10/1/96	

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The University of Vermont
Radiation Safety Office
004 Rowell Building
Burlington
Vermont 05405-0068
802-656-2570
802-656-8876(Fax)

030-09010

Date: September 24, 1996

To: United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia
PA 19406-1415

Sub: Responsible Supervisor of Cesium-137 Irradiator

License Number: 44-01998-06
Docket Number: 3009010

Please change the item 7 F of the application as follows:

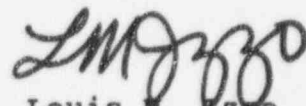
Responsible Supervisor of Cesium-137 Irradiator
J. Patrick O'Neill, Ph.D.
(resume attached)

Dr. O'Neill was trained in the use of Cesium-137 and Cobalt-60 irradiators at the Biology Division of the Oak Ridge National Laboratory in 1974 and used both irradiators during the period from 1974-1982.

Dr. O'Neill was trained in the use of Cesium-137 irradiator at the University of Vermont in 1993.

Please direct any questions about this letter to the undersigned.

Thank you.


Louis M. Izzo
Director

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123742

SEP 28 1996

CURRICULUM VITAE

J. Patrick O'Neill, Ph.D.

PERSONAL:

Birth Date [] Birth Place: []

EDUCATION:

State University of New York at Stony Brook - Ph.D. Molecular Biology and Regulatory Mechanisms - 1972.

Cold Spring Harbor Laboratory of Quantitative Biology - Lambda Phage Course (1968) and Mammalian Cell Culture Course (1972).

Fordham University - A.B. Biology and Philosophy - 1966.

RESEARCH EXPERIENCE:

1987-pres	Member, Graduate Faculty, University of Vermont
1987-pres	Instructor, Department of Medicine, University of Vermont College of Medicine
1984-pres	Research Associate Professor, Department of Medicine, Univ. of Vermont College of Medicine
1982-pres	Member, Vermont Regional Cancer Center, Univ. of Vermont
1982-1984	Research Assistant Professor, Dept. of Medicine, Univ. of Vermont College of Medicine
1978-1982	Staff Scientist, Biology Division, Oak Ridge National Laboratory
1976-1978	Research Associate, Biology Division, Oak Ridge National Laboratory
1972-1976	Postdoctoral Fellow, Biology Division, Oak Ridge National Laboratory

SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS:

Wm. Steinbuglar Award from Fordham University Biology Department (1966).

Teaching Assistantship from State University of New York (1967-1969).

Predoctoral Fellowship, National Science Foundation Training Grant to the State University of

New York (1969-1970).

Predoctoral Fellowship, National Institute of General Medical Sciences (1970-1972).

Postdoctoral Fellowship, Research in Aging Training Grant to ORNL from National Institute of Child Health and Human Development (1972-1974).

Postdoctoral Fellowship, National Institute of Environmental Health Sciences (1974-1975).

Postdoctoral Fellowship, Carcinogenesis Training Program, Oak Ridge National Laboratory (1975-1976).

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

Environmental Mutagen Society
American Association for the Advancement of Science
Mutagenesis Association of New England
Genetic Toxicology Association

EDITORIAL BOARDS:

Environmental and Molecular Mutagenesis

PUBLICATIONS:

1972

Patrick O'Neill and Martin Freundlich. 1972. Effects of cyclopentaneglycine on isoleucine metabolism in *S. typhimurium*. *J. Bacteriol.* 111, 510-515.

Patrick O'Neill and Martin Freundlich. 1972. Two forms of acetohydroxy acid synthetase in *S. typhimurium*. *Biochem. Biophys. Res. Commun.* 48, 437-443.

Patrick O'Neill and Martin Freundlich. 1972. Temperature-sensitive growth inhibition by valine in *S. typhimurium*: alteration of one form of acetohydroxy acid synthetase. *J. Bacteriol.* 116, 98-105.

1975

A. W. Hsie, K. Kawashima, J. P. O'Neill and C. H. Schroder (surnames in alphabetical order). 1975. Possible role of cyclic AMP phosphodiesterase in the morphological transformation of Chinese hamster ovary cells mediated by N',2'-O-dibutyryl cyclic AMP. *J. Bio. Chem.* 250.

984-989.

J. P. O'Neill, C. H. Schroder and A. W. Hsie. 1975. Hydrolysis of butyryl derivatives of cyclic AMP by Chinese hamster ovary cell extract and characterization of the products. *J. Biol. Chem.* 250, 990-995.

J. P. O'Neill and A. W. Hsie. 1975. Prostaglandin E_1 induced changes in cyclic AMP in WI-38 human fibroblasts: Two different effects of cell density. *Biochem. Biophys. Acta* 404, 243-248.

1976

J. P. O'Neill, C. H. Schroder, J. C. Riddle and A. W. Hsie. 1976. Cell cycle specificity of the N 2'-O-dibutyryl cyclic AMP effect in Chinese hamster ovary cells. *Exp. Cell Res.* 97, 213-217.

1977

J. P. O'Neill, A. P. Li and A. W. Hsie. 1977. Action of cyclic nucleotide analogues in Chinese hamster ovary cells. *Biochem. Biophys. Acta* 497, 35-45.

A. P. Li, J. P. O'Neill, K. Kawashima and A. W. Hsie. 1977. Correlation between changes in intracellular level of cAMP, activation of cAMP-dependent protein kinase, and the morphology of Chinese hamster ovary cells in culture. *Arch. Biochem. Biophys.* 182, 181-187.

J. P. O'Neill, P. Briner, R. Machanoff, G. P. Hirsch and A. W. Hsie. 1977. A quantitative assay of mutation induction at the hypoxanthine guanine phosphoribosyl transferase locus in Chinese hamster ovary cells (CHO/HGPRT system): Development and definition of system. *Mutation Res.* 45, 91-101.

J. P. O'Neill, D. B. Couch, R. Machanoff, J. San Sebastian, P. Brimer and A. W. Hsie. 1977. A quantitative assay of mutation induction at the hypoxanthine guanine phosphoribosyl transferase locus in Chinese hamster ovary cells (CHO/HGPRT system): Utilization with a variety of mutagenic agents. *Mutation Res.* 45: 103-109.

J. P. O'Neill and A. W. Hsie. 1977. Chemical mutagenesis of mammalian cells can be quantified. *Nature* 269:815-817.

1978

J. P. O'Neill, J. C. Fuscoe and A. W. Hsie. 1978. Mutagenicity of heterocyclic nitrogen mustards (ICR compounds) in cultured mammalian cells. *Cancer Res.* 38:506-509.

J. P. O'Neill and A. W. Hsie. 1978. Growth arrest of Chinese hamster ovary cells in serum free medium: changes in cell morphology and the intracellular and prostaglandin-induced levels of cyclic AMP. *J. Cyclic Nucleo. Res.* 4:169-174.

1979

J. P. O'Neill and A. W. Hsie. 1979. Phenotypic expression time of mutagen induced 6-thioguanine resistance in Chinese hamster ovary cells (CHO/HGPRT system). *Mutation Res.* 59:109-118.

H. W. Thielman, C. H. Schroder, J. P. O'Neill, P. A. Brimer and A. W. Hsie. 1979. Relationship between DNA alkylation and specific locus mutation induction by N-methyl- and N-ethyl-N-nitrosourea in cultured Chinese hamster ovary cells (CHO/HGPRT system). *Chem. Biol. Interact.* 26:233-243.

J. C. Fuscoe, J. P. O'Neill and A. W. Hsie. 1979. Mutagenicity and cytotoxicity of 19 heterocyclic mustards (ICR compounds) in cultured mammalian cells. *Cancer Res.* 39:4875-4881.

J. P. O'Neill, R. L. Schenley and A. W. Hsie. 1979. Cytotoxicity and mutagenicity of alkylating agents in cultured mammalian cells (CHO/HGPRT system): mutagen treatment in the presence or absence of serum. *Mutation Res.* 63:381-385.

1980

N. P. Johnson, J. D. Hoeschele, R. O. Rahn, J. P. O'Neill and A. W. Hsie. 1980. Mutagenicity, cytotoxicity and DNA binding of platinum(II)chloroamines in Chinese hamster ovary cells. *Cancer Res.* 40:1463-1468.

J. R. San Sebastian, J. P. O'Neill and A. W. Hsie. 1980. Induction of chromosome aberrations, sibling ("sister") chromatid exchanges and specific locus mutations in Chinese hamster ovary cells by 5-bromodeoxyuridine. *Cytogenetics and Cell Genetics.* 28:47-54.

A. W. Hsie, P. A. Brimer, J. P. O'Neill, J. L. Epler, M. R. Guerin and M. H. Hsie. 1980. Mutagenicity of alkaline constituents of a coal-liquified crude oil in mammalian cells. *Mutat. Res.* 78:79-84.

1981

R. Machanoff, J. P. O'Neill and A. W. Hsie. 1981. Quantitative analysis of cytotoxicity and mutagenicity of benzo(a)pyrene in mammalian cells (CHO/HGPRT system). *Chem. Biol. Interact.* 34:1-10.

J. P. O'Neill, N. L. Forbes and A. W. Hsie. 1981. Cytotoxicity and mutagenicity of the fungicides captan and folpet in cultured mammalian cells (CHO/HGPRT system). *Environmental Mutagenesis* 3:233-237.

J. P. O'Neill, P. A. Brimer and A. W. Hsie. 1981. Fluctuation analysis of spontaneous mutations to 6-thioguanine resistance in Chinese hamster ovary cells in culture. *Mutat. Res.* 82:343-353.

(FOR LFMS USE)
INFORMATION FROM LTS

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: PROGRAM CODE: 03510
: STATUS CODE: 0
: FEE CATEGORY: EX 3E
: EXP. DATE: 20040930
: FEE COMMENTS: 170.11(A)(4)
: DECOM FIN ASSUR REQD: N
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A. REGION

2. FEE ATTACHED
AMOUNT:
CHECK NO.:

SIGNED
DATE

1. FEE CATEGORY AND AMOUNT:

2. CORRECT FEE PAID* APPLICATION MAY BE PROCESSED FOR:
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DATE