BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Paul Thomas Winnard, Jr.	Postdoctoral Fellow

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Merrimack College, Andover, MA	B.S.	1981-1983	Chemistry
University of New Hampshire, Durham, NH	M.S.	1984-1987	Biochemistry
University of Maine, Orono, ME	Ph.D.	1995-2001	Biochemistry & Molecular Biology

A. Positions and Honors

Positions and Employment:

1987–1989 Research Technician, Immunopathology, Massachusetts General Hospital-Harvard Medical School
1989–1990 Reseach Technician, Toxicology, Massachusetts Institute of Technology
1991–1995 Research Technician, Nuclear Medicine, University of Massachusetts Medical Center-UMA Medical School

Other Experience and Professional Memberships:

1984 - 2002 Member, The American Chemical Society
1986 - present Member, Sigma Xi Honor Society
1987 - present Member, The American Association for the Advancement of Science
1989 - 2001 Member, New York Academy of Sciences
2003 - present Member American Association for Cancer Research

Honors:

2001–Present Postdoctoral Followship, Radiology, Johns Hopkins University School of Medicine

B. Selected peer-reviewed publications (in chronological order)

Winnard PT, Esmon CT, Laue TM. The molecular weight and oligomerization of rabbit thrombomodulin as assessed by sedimentation equilibrium. Arch. Biochem. Biophys. 1989;269: 339-344.

Hnatowich DJ, Mardirossian G, Rusckowski M, Forarasi M, Virzi F, Winnard P Jr. Directly and indirectly technetium-99m-labeled antibodies: A comparison of in vitro and animal in vivo properties. J Nuc. Med. 1993;34: 109-119.

Hnatowich DJ, Virzi F, Winnard P Jr., Forgarasi M, Rusckowski M. Investigations of ascorbate for direct labeling of antibodies with technetium-99m. J Nuc. Med. 1994;35:127-134.

Hnatowich DJ, Virzi F, Forgarasi M, Rusckowski M, Winnard P Jr. Can a cysteine challenge assay predict the in vivo behavior of 99mTc-labeled antibodies? Nuc. Med. Biol. 1994;21:1035-1044.

Virzi F, Winnard P Jr, Fogarasi M, Sano T, Smith CL, Cantor CR, Ruskowski M, Hnatowich DJ. Recombinant metallothionein-conjugated streptavidin labeled with 188Re and 99mTc. Bioconjug. Chem. 1995;6:139-144.

Hnatowich DJ, Winnard P Jr, Virzi F, Fogarasi M, Sano T, Smith CL, Cantor CR, Rusckowski M. Technetium-99m labeling of DNA oligonucleotides. J Nuc. Med. 1995;36:2306-2314.

Hnatowich DJ, Mardirossian G, Fogarasi M, Sano T, Smith CL, Cantor CR, Rusckowski M, Winnard P Jr. Comparative properties of a technetium-99m-labeled single-stranded natural DNA and a phosphorothioate derivative in vitro and in mice. J Pharmacol. & Exper. Therap. 1996;276:326-34.

Hnatowich DJ, Mardirossian G, Rusckowski M, Winnard P Jr. Protein labelling via deoxyribonucleic acid hybridization. Nuc. Med. Comm. 1996;17:66-75.

Winnard P Jr., Virzi E, Fogarasi M, Rusckowski M, Hnatowich DJ. Investigations of directly labeling antibodies with rhenium-188. Quart. J Nuc. Med. 1996;40:151-60.

Winnard P Jr., Chang F, Rusckowski M, Mardirossian G, Hnatowich DJ. Preparation and use of NHS-MAG3 for technetium-99m labeling of DNA. Nuc. Med. Biol. 1997;24:425-32.

Fogarasi M, Pullman J, Winnard P, Hnatowich DJ, Rusckowski M. Pretargeting of bacterial endocarditis in rats with streptavidin and In-111-labeled biotin. J Nuc. Med. 1999; 40:484-490.

Winnard P, Sidell BD, Vayda ME. Teleost introns are characterized by a high A + T content. Comp. Biochem. Physiol. Part B. 2002;133:155-166.

Winnard P, Cashon RE, Sidell BD, Vayda ME. Isolation, characterization and nucleotide sequence of the muscle isoforms of creatine kinase from the Antarctic teleost Chaenocephalus aceratus. Comp Biochem Physiol B Biochem Mol Biol. 2003;134:651-67.

Winnard P Jr., Raman V. Real time non-invasive imaging of receptor-ligand interactions in vivo. J Cell Biochem. 2003;90:454-63.