

HUTZEL HOSPITAL 4707 ST. ANTOINE BLVD., DETROIT, MICHIGAN 48201



August 13, 1985

Mr. James Mullauer
Materials Licensing Section
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Mullauer

Please amend Byproduct Material License 21-03001-01 for the following changes:

1. Delete the following authorized users:

Basil Considine, M.D.
Gangadhar V. Vaishampayan, M.D.
Karan Singh Dosi, M.D.
Earnest Booth, M.D.
H. Gunter Seydel, M.D.
Laurence G. Lines, M.D.

2. Add the following authorized users:

Sanford Wagenberg, M.D.
(See attached preceptor form)
Joseph Wiener, M.D.: Group I and 31.11
Gregory C. Critchfield, M.D.: Group I and 31.11

3. Increase the possession limit for I-125 to 30 mCi.

4. Increase the possession limit for I-131 for lab testing (animal research) to 30 mCi.

Enclosed is the amendment fee of \$120.00. If there are any questions, call me at (313) 494-7364.

Applicant Spt 10 *TH*

Check No. 121763

Amount Fee Category \$120 (7C)

Type of Fee Amendment

Date Check Rec'd 9/9

Sincerely,

Ray A. Carlson
Ray A. Carlson
Medical Physicist

RECEIVED
SEP 04 1985
REGION III

RC/jm Received By *SK*
Enclosures

SEP 9/10/85

SEP 4 1985

Rec'd LFMB
9/9/85

DETROIT MEDICAL CENTER

8512310172 851202
REG3 LIC30
21-03001-01 PDR

WILLIAM BEAUMONT HOSPITAL

3601 West 13 Mile Road • Royal Oak, Michigan 48072 • (313) 288-8020

44201 Dequindre • Troy, Michigan 48098 • (313) 828-5190

Department of Nuclear Medicine

Royal Oak

HOWARD J. DWORKIN, M.D.
RICHARD A. WETZEL, M.D.
DARLENE FINK/BENNETT, M.D.
JOHN E. FREITAS, M.D.

Troy

CONRAD E. NAGLE, M.D.

DATE:

June 23, 1982

RE:

Sanford Wogenberg

The above named physician attended the lecture series on Radiopharmaceuticals given in 1982. In addition to this lecture series, each resident spends time assisting in the Radiopharmacy. The above name physician completed this rotation.

Total hours applicable to the NRC licensure requirements are 15 hours.

Sincerely,

Robert F. Gutkowski

Robert F. Gutkowski
Director of Radiopharmacy

RG:cg

CONTROL NO. 79691



TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE <i>MICH</i>
--	--

3. CERTIFICATION		
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
<i>AMERICAN BOARD OF RADIOLOGY</i>	<i>RADIOLOGY</i>	<i>6-84</i>

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES			
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	<i>SEE</i>		
b. RADIATION PROTECTION	<i>ATTACHED</i>		
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	<i>LETTER</i>		
d. RADIATION BIOLOGY			
e. RADIOPHARMACEUTICAL CHEMISTRY			

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
<i>Tc 99m</i> <i>I 131</i> <i>Xe 133</i> <i>Tl 201</i> <i>Ga 67</i> <i>I 111</i> <i>Sr 90</i> <i>P 32</i>	<i>SEE PRECEPTOR SHEET</i>	<i>WILLIAM BEAUMONT HOSP</i> <i>ROYAL OAK MICH</i>	<i>SEE PRECEPTOR STATEMENT</i>	<i>DIAGNOSTIC & THERAPY</i>

CONTROL NO. 79691

Beaumont

William Beaumont Hospital
Royal Oak

Medical Physics and
Engineering

June 14, 1985

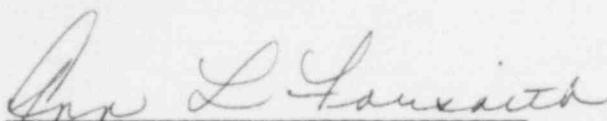
Re.: Sanford Wagenberg, M.D.

Sanford Wagenberg, M.D. attended the required Physics and Radiation Biology courses during his residency, 1980 to 1984. The courses are listed below:

1. Introduction to Radiation Physics
2. Physics of Diagnostic Radiology
3. Physics of Nuclear Medicine
4. Board Review of Diagnostic and Nuclear Medicine
5. Radiation Biology

Attendance at all the above courses satisfies the Nuclear Regulatory Commission's recommendation of 200 didactic hours in the Physics of Nuclear Medicine and Radiation Biology.

Respectfully submitted,



Ann L. Forsaith, M.P.H., Manager
Medical Physics Section
Certified American Board of Radiology
in Radiological Physics (All Branches)

ALF:rmk

PRECEPTOR STATEMENT

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.

1. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME

SANFORD EARL WAGENBERG MD

STREET ADDRESS

4885 FRANKLIN ROAD

CITY

STATE

ZIP CODE

BLOOMFIELD HILLS MICH 48013

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

- 1-Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
- 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data.
- 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION	35	
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME	29	
	LIVER FUNCTION STUDIES	0	
	FAT ABSORPTION STUDIES	1	
	KIDNEY FUNCTION STUDIES	0	
	IN VITRO STUDIES		
OTHER	SCHILLING B-12	31	
I-125	DETECTION OF THROMBOSIS	3	
I-131	THYROID IMAGING	17	
P-32	EYE TUMOR LOCALIZATION	2	
Se-75	PANCREAS IMAGING	1	
Yb-169	CISTERNOGRAPHY ¹²⁵ I	4	
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES	92	
OTHER	GU & GI imaging	114	
Tc-99m	BRAIN IMAGING	231	
	CARDIAC IMAGING	427	
	THYROID IMAGING	201	
	SALIVARY GLAND IMAGING	3	
	BLOOD POOL IMAGING	331	
	PLACENTA LOCALIZATION	0	
	LIVER AND SPLEEN IMAGING	383	
	LUNG IMAGING	196	
	BONE IMAGING	740	
OTHER	BILIARY	176	
	INFECTION imaging	28	

CONTROL NO. 7 969 1

PRECEPTOR STATEMENT (Continued)

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES	1	
P-32 (Colloidal)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA	4	
	TREATMENT OF HYPERTHYROIDISM	16	
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
Co-60 or Cs-137	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

TOTAL OF 4 MONTHS IN CLINICAL
PLUS 200 DIDACTIC HOURS

6-82-8-82
4-85-5-84

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:

a. NAME OF SUPERVISOR

Howard J. Dworkin, M.D.

b. NAME OF INSTITUTION

William Beaumont Hospital

c. MAILING ADDRESS

3601 West 13 Mile Road

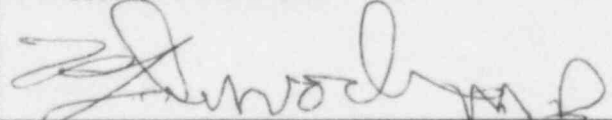
d. CITY

Royal Oak

5. MATERIALS LICENSE NUMBER(S)

21-01333-01

6. PRECEPTOR'S SIGNATURE



7. PRECEPTOR'S NAME (Please type or print)

Howard J. Dworkin, M.D.

8. DATE

June 21, 1985

CURRICULUM VITAE

Joseph Wiener, M.D.

DATE OF BIRTH: September 21, 1927

PLACE OF BIRTH: Toronto, Ontario, Canada

CITIZENSHIP: U.S.A. (by naturalization, 1959)

SOCIAL SECURITY
NUMBER: 370-32-9207

MARITAL STATUS: Judith Hesta Ross, June 20, 1954
2 children
Carolyn Louise, May 8, 1962
Adam Lewis, July 29, 1964

HOME ADDRESS: 30875 Franklin Road
Franklin Village, Michigan 48025
(313)-626-2421

OFFICE ADDRESS: Wayne State University School of Medicine
Department of Pathology
Gordon H. Scott Hall
540 East Canfield
Detroit, Michigan 48201
(313)-577-1102

EDUCATION: J.C. Patterson Collegiate
Windsor, Ontario, June 29, 1947

Pre-Medicine, University of Toronto
1947-1949

Faculty of Medicine, University of Toronto,
1949-1953

POST-GRADUATE TRAINING: Intern, City of Detroit Receiving Hospital
July 1, 1953 - June 30, 1954

Junior assistant resident, Mallory Institute of Pathology,
Boston City Hospital
July 1, 1954 - April 30, 1955

Senior assistant resident, Mallory Institute of Pathology,
Boston City Hospital
July 1, 1957 - June 30, 1958

Resident, Mallory Institute of Pathology
Boston City Hospital
July 1, 1958 - June 30, 1959

Chief Resident, Mallory Institute of Pathology
Boston City Hospital
July 1, 1959 - June 30, 1960

ACADEMIC APPOINTMENTS:

Junior Teaching Fellow in Pathology
Boston University School of Medicine
July 1, 1958 - June 30, 1959

Senior Teaching Fellow in Pathology
Boston University School of Medicine
July 1, 1959 - June 30, 1960

Teaching Fellow in Pathology
Harvard Medical School
July 1, 1959 - June 30, 1960

Associate in Pathology
College of Physicians and Surgeons of Columbia University
July 1, 1960 - June 30, 1963

Assistant Professor of Pathology
College of Physicians and Surgeons of Columbia University
July 1, 1963 - June 30, 1967

Associate Professor of Pathology
College of Physicians and Surgeons of Columbia University
July 1, 1967 - June 30, 1968

Clinical Professor of Pathology
College of Physicians and Surgeons of Columbia University
July 1, 1968 - June 30, 1969

Professor of Pathology
New York Medical College
July 1, 1968 - June 30, 1978
Acting Co-Chairman
July 13, 1974 - January 31, 1976

Professor and Chairman of Pathology
Wayne State University School of Medicine
July 1, 1978 - present

HOSPITAL APPOINTMENTS:

Attending Pathologist
Presbyterian Hospital in the City of New York
July 1, 1960 - June 30, 1963

Assistant Attending Pathologist
Presbyterian Hospital in the City of New York
July 1, 1963 - June 30, 1967

Associate Attending Pathologist
Presbyterian Hospital in the City of New York
July 1, 1967 - June 30, 1968

Consultant, Harlem Hospital
November 1, 1967 - June 30, 1968

Attending Pathologist
Flower and Fifth Avenue Hospitals and Metropolitan Hospital
July 1, 1968 - June 30, 1978

Attending Pathologist
Westchester County Medical Center
December 1, 1975 - June 30, 1978

Pathologist-in-Chief
Detroit General Hospital
July 1, 1978 - June 30, 1980

Pathologist-in-Chief
Detroit Receiving Hospital-University Health Center
July 1, 1980 to present

Pathologist-in-Chief
Hutzel Hospital
May 7, 1984 to present

BOARD OF CERTIFICATION:

Medical Council of Canada	1953
National Board of Medical Examiners	1958
American Board of Pathology, in Pathologic Anatomy and Clinical Pathology	1960

LICENSURE:

College of Physicians and Surgeons of Ontario
July 1, 1953 to present

Commonwealth of Massachusetts
1959 - 1960

State of New York
1960 - 1978

State of Michigan
1978 to present

PROFESSIONAL SOCIETY MEMBERSHIPS:

Alpha Omega Alpha
American Association for the Advancement of Science
American Association of Pathologists
American Heart Association
American Society for Cell Biology

Blood Vessel Club
College of American Pathologists
Detroit Physiological Society
Electron Microscope Society of America
Fellow, Council for High Blood Pressure Research
Michigan Heart Association
Michigan Society of Electron Microscopists
International Academy of Pathology
Michigan Society of Pathologists
New York Society of Electron Microscopists
New York Pathological Society

CURRENT RESEARCH GRANTS

Principal Investigator, U.S.P.H.S. Grant HL 23603
"Morphogenesis of Hypertensive Vascular Disease",
July 1, 1983 - June 30, 1988.

Co-Principal Investigator, U.S.P.H.S. Grant AM 20926
"Primary Myocardial Disease in the Diabetic Mouse",
December 1, 1983 - November 30, 1986.

REVIEW PANELS:

Member, Ad Hoc Panel for Review of Specialized Centers of
Research Applications in Hypertension, National Heart and
Lung Institute, 1971.

Member, Pathology A Study Section, Division of Research
Grants, National Institutes of Health, 1972 - 1976.

Member, Advisory Committee on Clinical Investigations III
(Prevention, Diagnosis and Therapy); American Cancer
Society, 1974 - 1975; Vice-Chairman, 1976; Chairman, 1977.

Member, Hypertension Task Force and Chairman, Hypertensive
Vascular Disease Subgroup; National Heart, Lung and Blood
Institute, 1975 - 1978.

Member, Arteriosclerosis, Hypertension and Lipid Metabolism
Advisory Committee; National Heart, Lung and Blood
Institute, 1978 - 1982.

Member, Fellowship Review Committee, Michigan Heart
Association, 1980 - 1985.

Consultant, National Heart, Lung and Blood Institute,
1982 -

EDITORIAL BOARDS:

Member, Editorial Board, Hypertension
1978 - 1982

MILITARY SERVICE:

Chief, Laboratory Service
United States Army Hospital
Ft. Riley, Kansas
Lieutenant to Captain, Medical Corps
United States Army Reserve
June, 1955 - May, 1957

W.S.U. COMMITTEES:

Council of Department Chairmen	1978 -
Member, Curriculum Committee	1981 -
Executive Committee, Detroit General Hospital and Detroit Receiving Hospital-University Health Center	1978 -
Member, Year II Committee	1978 -
Member, Promotions Review Committee	1981 - 1984
Member, Dean's Council for Graduate Medical Education	1984 -
Member, Medical Board, Detroit Medical Center	1985 -

Hutzel Hospital Committees

Executive Committee	1984 -
Joint Conference Committee	1984 -
Credentials Committee	1984 -

Bibliography (Papers only)

- Wiener, J. Septicemia of the newborn due to *Listeria monocytogenes*. J. Pediatrics, 51:392-403, 1957.
- Teitelbaum, J., Wiener, J. and Desforges, C.F. A serologic and electrophoretic study of the malignant and proliferative disorders of the hematopoietic and reticuloendothelial systems. J. Lab. Clin. Med., 53:535-552, 1959.
- Norkin, S. and Wiener, J. The Henoch-Schonlein Syndrome. Am. J. Clin. Path., 33:55-65, 1960.
- Sherman, J.D., Ingall, D., Wiener, J. and Pryles, C.V. *Alcaligenes faecalis* infection in the newborn. Am. J. Dis. Child, 100:212-216, 1960.
- Wiener, J. and Sherman, J.D. An infant mortality study at the Boston City Hospital. Boston Med. Quart., 2:5-9, 1960.
- Nabseth, D.C., Wilson, J.T., Tan, B., McDonough, E.F., Wiener, J. and Child, C.G., III. Fetal arterial heterografts. Arch. Surg., 81:929-933, 1960.
- Norris, H.J., and Wiener, J. The renal lesions in leukemia. Am. J. Med. Sc., 241:512-517, 1961.
- Spiro, D. and Wiener, J. The fine structure of the coronary artery. In: Coronary Heart Disease, (W. Likoff and J.H. Moyer, eds.), Grune and Stratton, New York, pp. 11-24, 1962.
- Wiener, J. and Spiro, D. Electron microscopic studies in experimental thrombosis. Exp. Mol. Path., 1:554-572, 1962.
- Wiener, J., Spiro, D. and Russell, P.S. Electron microscopic studies of the homograft reaction. Proc. Fifth International Congress of Electron Microscopy, (S.S. Breese, ed.), Academic Press, New York, SS-10, 1962.
- Giacomelli, F., Spiro, D. and Wiener, J. Ultrastructural studies in metastatic calcification. Proc. Fifth International Congress of Electron Microscopy, (S.S. Breese, ed.), Academic Press, New York, SS-7, 1962.
- Wiener, J., Spiro, D. and Russell, P.S. An electron microscopic study of the homograft reaction. Amer. J. Path., 44:319-347, 1964.
- Giacomelli, F., Spiro, D. and Wiener, J. A study of metastatic renal calcification at the cellular level, J. Cell Biol., 22:189-206, 1964.
- Wiener, J., Spiro, D. and Loewenstein, W.R. Studies on an epithelial (gland) cell junction. II. Surface structure. J. Cell Biol., 22:587-598, 1964.
- Mackey, E.A., Spiro, D. and Wiener, J. A study of chromatolysis in dorsal root ganglia at the cellular level. J. Neuropath. Exper. Neurol., 23:508-526, 1964.
- Wiener, J., Spiro, D. and Margaretten, W. An electron microscopic study of reticuloendothelial system blockade. Amer. J. Path., 45:783-803, 1964.

Wiener, J. and Spiro, D. Ultrastructural studies in experimental thrombosis. In: Anticoagulant Therapy in Ischemic Heart Disease: An International Symposium, (E.S. Nichol, ed.), Grune and Stratton, New York, pp. 342-360, 1965.

Spiro, D., Lattes, R.G. and Wiener, J. The cellular pathology of experimental hypertension. I. Hyperplastic arteriolar sclerosis. Amer. J. Path., 47:19-49, 1965.

Wiener, J., Lattes, R.G. and Spiro, D. The cellular pathology of experimental hypertension. II. Arteriolar hyalinosis and fibrinoid change. Amer. J. Path., 47:457-485, 1965.

Giacomelli, F., Wiener, J. and Spiro, D. Cytological alterations related to stimulation of the zona glomerulosa of the adrenal gland. J. Cell Biol., 26:499-521, 1965.

Wiener, J., Spiro, D. and Loewenstein, W.R. Nuclear membrane structure and permeability. J. Cell Biol., 27:107-117, 1965.

Wiener, J., Spiro, D. and Zunker, H.O. A cellular study of tuberculin sensitivity. Amer. J. Path., 47:723-764, 1965.

Ben-Ishay, Z., Spiro, D. and Wiener, J. The cellular pathology of experimental hypertension. III. Glomerular alterations. Amer. J. Path., 49:773-793, 1966.

Wiener, J., Lattes, R.G. and Spiro, D. Vascular permeability and leucocyte emigration in tuberculin sensitivity. Proc. Sixth International Congress of Electron Microscopy, (R. Uyeda, ed.), Maruzen Co., Ltd., Tokyo, Vol. II, pp. 729-730, 1966.

Wiener, J., Cottrell, T.S., Margaretten, W. and Spiro, D. An electron microscopic study of steroid induced reticuloendothelial blockade. Amer. J. Path., 50:187-201, 1967.

Wiener, J., Lattes, R.G. and Spiro, D. An electron microscopic study of leucocyte emigration and vascular permeability in tuberculin sensitivity. Amer. J. Path., 50:485-521, 1967.

Winell, M., Bassett, C.A.L., Wiener, J. and Spiro, D. Ultrastructural aspects of fibrogenesis and osteogenesis in tissue culture. Anat. Record, 158:75-87, 1967.

Schenk, R.W., Spiro, D. and Wiener, J. Cartilage resorption in the tibial epiphyseal plate of growing rats. J. Cell Biol., 34:275-291, 1967.

Ben-Ishay, Z., Wiener, J., Sweeting, J., Bradley, S.E. and Spiro, D. Fine structural alterations in the canine kidney during hemorrhagic hypotension. Effects of osmotic diuresis. Lab. Invest., 17:190-210, 1967.

Wiener, J. Fine structural aspects of reticuloendothelial blockade, In: Advances in Experimental Medicine and Biology, (N.R. Diluzio and R. Paoletti, eds.) Plenum Press, New York, 1:85-97, 1967.

Cottrell, T.S., Levine, O.R., Senior, R.M., Wiener, J., Spiro, D. and Fishman, A.P. Electron microscopic alterations at the alveolar level in pulmonary edema. *Circ. Res.*, 21:783-797, 1967.

Wiener, J., Loud, A.V., Kimberg, D.V. and Spiro, D. A quantitative description of cortisone-induced alterations in the ultrastructure of rat liver parenchymal cells. *J. Cell Biol.*, 27:47-61, 1968.

Kimberg, D.V., Loud, A.V. and Wiener, J. Cortisone-induced alterations in mitochondrial function and structure. *J. Cell Biol.*, 37:63-79, 1968.

Schenk, R.W., Wiener, J. and Spiro, D. Fine structural aspects of vascular invasion of the tibial epiphyseal plate of growing rats. *Acta Anat.*, 69:1-17, 1968.

Shingleton, H.M., Richart, R.M., Wiener, J. and Spiro, D. Human cervical intraepithelial neoplasia: fine structure of dysplasia and carcinoma-in-situ. *Cancer Res.*, 28:695-706, 1968.

Wiener, J. and Spiro, D. The fine structure of experimental vascular disease. In: *Pathology of the Heart and Blood Vessels*, (S.E. Gould, ed.), Charles C. Thomas, Springfield, Ill., 3rd ed., pp. 1041-1069, 1968.

Wiener, J., Lattes, R.G., Meltzer, B.G. and Spiro, D. The cellular pathology of experimental hypertension. IV. Evidence for increased vascular permeability. *Amer. J. Path.*, 54:187-207, 1969.

Wiener, J., Pearl, J.S., Lattes, R.G. and Spiro, D. Endothelial cell - leucocyte bridges in skin allografts. *Transplantation*, 7:439-443, 1969.

Wiener, J., Lattes, R.G. and Pearl, J.S. Vascular permeability and leukocyte emigration in allograft rejection. *Amer. J. Path.*, 55:295-327, 1969.

Giacomelli, F., Wiener, J. and Spiro, D. Cross-striated arrays of filaments in endothelium. *J. Cell Biol.*, 45:188-192, 1970.

Giacomelli, F., Wiener, J. and Spiro, D. The cellular pathology of experimental hypertension. V. Increased permeability of cerebral arterial vessels. *Amer. J. Path.*, 59:133-159, 1970.

Wiener, J. Ultrastructural aspects of delayed hypersensitivity. *Current Topics in Pathology*, 52:143-208, 1970.

Giacomelli, F., Wiener, J., Kruskal, J.B., Pomeranz, J.V. and Loud, A.V. Subpopulations of blood lymphocytes demonstrated by quantitative cytochemistry. *J. Histochem. Cytochem.*, 19:426-433, 1971.

Wiener, J., Giacomelli, F., Pomeranz, J.V. and Loud, A.V. Effects of inflammation on subpopulations of blood lymphocytes. *J. Histochem. Cytochem.*, 19:558-562, 1971.

Thursh, D.R., Emeson, E.E., Giacomelli, F. and Wiener, J. Ultrastructure and radioautography of rosette - forming cells of normal and immunized mice. *Cell. Immunol.*, 4:218-227, 1972.

- Wiener, J., Needelman, A., and Giacomelli, F. Effects of inflammation on the binding of colloidal particles to the surfaces of polymorphonuclear neutrophilic leukocytes. *Exp. Mol. Path.*, 16:180-185, 1972.
- Giacomelli, F., Juechter, K.B. and Wiener, J. The cellular pathology of experimental hypertension. VI. Alterations in retinal vasculature. *Amer. J. Path.*, 68:81-96, 1972.
- Wiener, J. and Giacomelli, F. The cellular pathology of experimental hypertension. VII. Structure and permeability of the mesenteric vasculature in angiotensin-induced hypertension. *Amer. J. Path.*, 72:221-240, 1973.
- Anversa, P., Giacomelli, F., Wiener, J. and Spiro, D. Permeability properties of ventricular endocardium. *Lab. Invest.*, 28:728-734, 1973.
- Anversa, P., Giacomelli, F. and Wiener, J. Regional variation in capillary permeability of ventricular endocardium. *Microvasc. Res.*, 6:273-285, 1973.
- Lerner, R.G., Wiener, J. and Goldstein, R. Experimental venous thrombosis in agranulocytic rabbits. *Thrombosis Res.*, 4:165-175, 1974.
- Giacomelli, F. and Wiener, J. Regional variation in the permeability of rat thoracic aorta. *Amer. J. Path.*, 75:513-528, 1974.
- Giacomelli, F., Anversa, P. and Wiener, J. Interendothelial gap size of subendocardial vs. subepicardial capillaries. *Microvasc. Res.*, 10:38-42, 1975.
- Anversa, P., Giacomelli, F. and Wiener, J. Intercellular junctions of rat endocardium. *Anat. Record*, 183:477-484, 1975.
- Giacomelli, F. and Wiener, J. Specialized junction in the distal convoluted tubule of rat kidney. *Anat. Record.*, 185:197-208, 1976.
- Giacomelli, F., Anversa, P. and Wiener, J. Effect of angiotensin-induced hypertension on rat coronary arteries and myocardium. *Amer. J. Path.*, 84:111-138, 1976.
- Wiener, J., Loud, A.V., Giacomelli, F. and Anversa, P. Morphometric analysis of hypertension-induced hypertrophy of rat thoracic aorta. *Amer. J. Path.*, 88:619-634, 1977.
- Giacomelli, F., Rooney, J. and Wiener, J. Cerebrovascular ultrastructure and permeability after carotid artery constriction in experimental hypertension. *Exp. Mol. Path.*, 28:309-321, 1978.
- Bhan, R.D., Giacomelli, F. and Wiener, J. Ultrastructure of coronary arteries and myocardium in experimental hypertension. *Exp. Mol. Path.*, 29:66-81, 1978.
- Loud, A.V., Anversa, P., Giacomelli, F. and Wiener, J. Absolute morphometric study of myocardial hypertrophy in experimental hypertension. I. Determination of myocyte size. *Lab. Invest.*, 38:586-596, 1978.

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May 20, 1985

CURRICULUM VITAE

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PERSONAL DATA: Date of birth - November 4, 1951
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EDUCATION: 1967-70: High School: Kearns High School, Kearns, UT
1973-76: College: Brigham Young University Provo, UT
B.S. Microbiology, 1976
1976-80: Medical School:
University of Utah College of Medicine
Salt Lake City, UT
M.D. 1980

POST-GRADUATE TRAINING:
1980-81: Internship: University of Michigan
Ann Arbor, MI
General Pathology

ACADEMIC APPOINTMENTS:
1980-81: Resident, Department of Pathology
University of Michigan
1981-83: National Library of Medicine Training Grant
Health Computer Sciences
University of Minnesota
Graduate coursework in statistics,
mathematical modeling, computer science.
1983-84: Chief Resident
Department of Laboratory Medicine and Pathology
University of Minnesota, July 1983 - June 1984
1984: Chemistry Fellow
Department of Laboratory Medicine and Pathology
University of Minnesota
1981-present: Medical Fellow
Department of Laboratory Medicine and Pathology
University of Minnesota

PROFESSIONAL SOCIETIES:

American Medical Association
American Society of Clinical Pathologists
Minnesota Society on Medical Decisions

LICENSURE

1981 - present: State of Minnesota

BOARD CERTIFICATION

Diplomat of National Board of Medical Examiners

SCOLARSHIPS, HONORS AND AWARDS

Undergraduate:

Scholarships: 1973: Leadership Scholarship
1974-1976: Academic Scholarships

Awards:

1976: Phi Kappa Phi

Medical School:

1979: Special honors in Internal Medicine, Surgery,
Obstetrics/Gynecology, and Pediatrics, junior year
1979: Alpha Omega Alpha
1980: Honors Internal Medicine Program, senior year
1980: Dean's Award for graduating class, 1980

Post Graduate Awards:

1984: Young Investigator Award
Academy of Clinical Laboratory Physicians and Scientists

MILITARY SERVICE:

1970: United States Army National Guard
Honorable Discharge, 1974

INVITED CONTRIBUTIONS:

Critchfield, G.C.: Interpretation of tests: what if any are the indications for a two-hour oral glucose tolerance test (OGTT); three-hour OGTT, or five-hour OGTT? Peter, J.B., Solloway, H., eds. Diagnostic Medicine (In Press).

LETTERS:

Critchfield, G., Shultz, E., Willard, K. Prevalence and predictive value. Am. J. Clin. Pathol. 81(3): 408, 1984.

RESEARCH:

1985: Decision analysis: Probabilistic modeling of decision trees using Monte Carlo simulation or symbolic algebra. Variance estimation of compartmental analysis parameters. 5'-nucleotidase as an early marker of graft-versus-host disease.

1984: Time series analysis model of platelet requirements in a large hospital.

1983-84: Improved methods of reference range estimation in laboratory data distributions.

ARTICLES:

Anderson, M.W., Haug, P., Critchfield, G.C. Dermatoglyphic Features in Myocardial Infarction Patients. American Journal of Physical Anthropology, 55:523-527, 1981.

Critchfield, G.C., Connelly, D.C., Ziehwein, M., Olesen, L., Nelson, C., Scott, E. Automatic prediction of platelet utilization by time series analysis in a large tertiary care hospital. Am. J. Clin. Pathol. (In Press).

Critchfield, G.C., Willard, K.E. Probabilistic analysis of decision trees using Monte Carlo simulation. (Submitted).

Shultz, E.K., Willard, K.E., Rich, S.S., Connelly, D.P., Critchfield, G.C. Improved reference range estimation. (Submitted).

Willard, K.E., Critchfield, G.C. Probabilistic analysis of decision trees using symbolic algebra. (In Preparation).

Willard, K.E., Critchfield, G.C. Improved methods for estimates of parameter variance in compartmental analysis. (In Preparation).

Willard, K.E., Critchfield, G.C., Shultz, E.K. Improved reference range estimation utilizing real data. (In Preparation).

ABSTRACTS:

Critchfield, G.C., Shultz, E.S., Willard, K.W., Rich, S.S., Connelly, D.P. Improved reference range estimation by smoothed splines. Academy of Clinical Laboratory Physicians and Scientists Annual Meeting, Salt Lake City, Utah, June 1984.

PRESENTATIONS:

"Anatomy and Physiology of Microcomputers"
Minnesota Medical Society
September 1982

"Improved Reference Range Estimation by Smoothed Splines"
Academy of Clinical Laboratory Physicians and Scientists
Annual Meeting, Salt Lake City, Utah, June 1984.