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CURRICULUM VITAE

Name: James Arthur Will, D.V.M., Ph.D., PhD Hon (S.S. - 388-28-3388)

Born: November 2, 1930 Birthplace: Wauwatosa, Wisconsin

Citizenship: U.S. Citizen Marital Status: Married; 3 children

EDUCATION: High school graduate from: Wauwatosa High School Year: 1948

University Attended	Dates Attended	Degree	Date	Major and Minor
Univ. of Wisconsin	Sept. 1948-June 1952	BS	6/52	Agriculture
Univ. of Wisconsin	June 1952-June 1953	MS	6/53	Animal Husbandry Animal Science Genetics
Kansas State Univ.	Sept. 1956-June 1960	DVM	6/60	Veterinary Medicine Pathology
Univ. of Wisconsin	Sept. 1964-Nov. 1967	PhD	11/67	Veterinary Science Comp. Cardiology

MILITARY SERVICE:

Branch: Army of the United States From: Feb. 1954 to Feb. 1956 QMC, 1st Lt

Army of the United States (Reserves) Feb. 1956-62 Captain, Retired

ACADEMIC POSITIONS:

1952-1953 Research Assistant, Department of Meat and Animal Science, University of Wisconsin, Madison, Wisconsin.

1956-1960 Research Assistant, Kansas State University, Manhattan, Kansas.

1960-1961 Practicing Veterinarian, Columbus Veterinary Hospital, Columbus, Wisconsin.

1961-1964 Practicing Veterinarian, Self-employed, Columbus, Wisconsin.

1964-1967 Postdoctoral Research Fellowship, University of Wisconsin, Department of Medicine, Cardiovascular Research Laboratory and Department of Veterinary Science - NIH (Candidate for Ph.D.) (3+ years) December, 1967.

1960-1967 Consulting veterinarian, Avian Pathology.

1967-1971 Assistant Professor of Veterinary Science and Assistant Professor, Cardiovascular Research Laboratory, Department of Medicine, Medical School.

1971-1974 Associate Professor of Veterinary Science, College of Agricultural and Life Sciences and Department of Medicine, Medical School.

1972-1973 Special Fellow, NHLI, Department of Pathology, New Medical School, University of Liverpool, Liverpool, England.

1974-1978 Professor and Chairman of Veterinary Science, College of Agricultural and Life Sciences and Staff member, Cardiovascular Research Laboratory.

1979-l980 Professor of Veterinary Science, College of Agricultural and Life Sciences \

l980-2000 Affiliate Professor, Department of Anesthesiology, Medical School
Professor of Animal Health and Biomedical Sciences, School of Veterinary Medicine.

1991-2001 Affiliate Professor, Department of Dairy Science, CALS

2000-2006 Emeritus Professor, Department of Surgery, School of Medicine and Public Health
2000-2009 Emeritus Professor, Department of Biomedical Engineering, College of Engineering

2000-present Professor Emeritus, Department of Pathobiological Sciences, School of Veterinary Medicine.

2007-present Professor Emeritus, Department of Animal Sciences, College of Agricultural and Life Sciences

INDUSTRIAL POSITIONS

1993-1998 Vice-President, Clarion Pharmaceuticals, Inc

2006-2012 Vice-President and General Manager, Medical Engineering Innovations, Inc.
2006-Present Board member, Secretary/Treasurer Medical Engineering Innovations, Inc.

2009-2113 Past Board member, iOGenetics, LLC

Other Appointments:

1981-1990 Director, Research Animal Resources Center for the Graduate School. (Responsible for all animal usage on the 26 campuses of the University of Wisconsin System).

2008-Present Science editing consultant, Faculty of Medicine, Faculty of Veterinary Science, faculty of Dentistry, Khon Kaen University, Thailand

Visiting Professorships:

1985. 1985
2004 Department of Biochemistry, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand.

PROFESSIONAL SOCIETIES:

American Physiological Society

American Thoracic Society (terminated)

Society For Experimental Biology and Medicine (terminated)

American Society of Anesthesiologists (terminated)
Sigma Xi - National research fraternity, American Association for the Advancement oScience
Alpha Zeta, Gamma Sigma Delta - Honorary Academic Societies
Member - Wisconsin Heart, American Heart (terminated)
Wisconsin, and American Veterinary Medical Associations (retired status)
American Society of Veterinary Physiologists and Pharmacologists (terminated)
American Heart Association – professional member (terminated)
American Veterinary Medical Association (retired Honor Role member)
Conference of Research Workers in Animal Diseases, Editorial Board (retired
Life Fellow, Royal Society of Medicine, London

HONORS RECEIVED: NIH Postdoctoral Fellow, 1964-1967.
Burr Beach Award, 1967.
NIH Special Postdoctoral Fellow, 1972-1973.
Life Fellow, Royal Society of Medicine, London 1978-Present
Honorary PhD from the Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand, 2012

SPECIAL APPOINTMENTS:
Member, World Health Organization Committee for meeting on "Primary Pulmonary Hypertension in Man." October 15-17, 1973, Geneva, Switzerland.
Advisor and Member, Working Group on Pulmonary Circulation, European Society of Cardiology, 1980 -1990.

SUMMARY OF ACTIVITIES IN THE VETERINARY PROFESSION:

1. Past President, Dodge County VMA
2. Past member and Chairman, Insurance Committee, WVMA
3. Past member, Education Committee, WVMA
4. Past member, Executive Board, WVMA
5. Member, Planning Council, 7th Symposium on Veterinary Medical Education
6. President, Association of American Veterinary Medical Colleges, 1979
7. Member Advisory Committee joint AVMA-AAVMC Washington office, 1976-1980

UNIVERSITY SPECIAL APPOINTMENTS:
University of Wisconsin, Member and Chairman, Biological Divisional Committee responsible for promotions to tenure and new courses and major programs.
Director, for the Graduate School of Research Animal Resources for University of Wisconsin System.
CONSULTANCIES:

1974-1985 Consultant to Janssen Pharmaceutica, Beerse, Belgium for Life Sciences group, particularly in cardiovascular area, and animal health division but eventually with continual interactions with Dr. Paul Janssen as well.

1985-1990 Consultant to Upjohn Pharmaceuticals, Kalamazoo, MI in medical and Agricultural Divisions in Crawley, England, Brussels, Belgium and with scheduled meetings with Dr. Ted Cooper, Chairman.

1992-1995 Consultant staff of Weinberg group, Washington, DC.

BIBLIOGRAPHY:

Thesis:

J. A. Will: Ph.D. thesis, Allylamine Induced Cardiovascular Changes in Calves, January, 1968.

Books and Chapters in Books

1. Will, J. A. and R. W. Dougherty. Surgery of the Thoracic Inlet and Cavity in Experimental Surgery in Farm Animals. The Iowa State University State Press, Ames, Iowa, l98l, pages l35-l42.
2. Will, J. A., I. M. Keith, C. K. Buckner, J. Chacko, E. B. Olson, Jr., And E.K. Weir. Serotonin and the pulmonary circulation. In: Becker, K. L., and A.F. Gazdar (eds.), The Endocrine Lung in Health and Disease, W.B. Saunders Co., Philadelphia, PA, pp. l37-l54 (l984).
3. Will, J. A. and Coursin, D. B. Endotoxin and the lung. In: Handbook of Endotoxin, ed. L.B. Hinshaw, pp. 76-104, Elsevier, Amsterdam, New York, Oxford, 1985.
4. Will, J. A. The Case for the Use of Animals in Science. In: Fox, M.W., and L.D. Mickley (eds.), Advances in Animal Welfare Science 1986-87, The Humane Society of the United States, Washington, DC, 1986, pp. 205-213.
5. Will, J. A., C. A. Dawson, E. K. Weir, and C. K. Buckner, Editors. The Pulmonary Circulation in Health and Disease. Academic Press, Inc., Orlando, Florida, 1987.

Original Articles:

1. Forrest, J. C., J. A. Will, G. Schmidt, M. D. Judge, and E. J. Briskey. Homeostasis in Animals - (Sus Domesticus) During Exposure to a Warm Environment. J. Appl. Physiol. 24(1):33-39 (1968).
2. Will, J. A. Subvalvular Pulmonary Stenosis and an Aortico-pulmonary Septal Defect in the Cat. J.A.V.M.A. 154(7):913-916 (1969).
3. Will, J. A. The Circulatory System - Methods and Instruments. Proceedings, 21st Annual Reciprocal Meats Conference of the American Meat Science Ass'n, National Livestock and Meat Board, Chicago, Illinois, 184-193 (1968).
4. Lister, D., R. A. Sair, J. A. Will, G. R. Schmidt, R. G. Cassens, W. G. Hoekstra, and E. J. Briskey. Metabolism of Striated Muscle of Stress-Susceptible Pigs Breathing Oxygen or Nitrogen. Amer. J. Physiol. 218:102-107 (1970).
5. Weirich, W. E., J. A. Will, and C. W. Crumpton. A Technique for Placing Chronic Indwelling Catheters in Swine. J. Appl. Physiol. 117-119 (1970).
6. Will, J. A., and G. G. Rowe. Coronary Artery Fistula in a Dog. J. Amer. An. Hosp. Ass'n. 6:242-246 (1970).
7. Will, J. A., G. G. Rowe, C. Olson, and C. W. Crumpton. A Chemically Induced Acute Model

of Myocardial Damage in Intact Calves. Res. Comm. in Chem. Path. and Pharmacol. 2:61-66 (1971).

8. Banchero, N., R. F. Grover, and J. A. Will. High Altitude-induced Pulmonary Arterial Hypertension in the Llama (Lama glama). Am. J. Physiol. 220:422-427 (1971).
9. Topel, D. G., D. E. Galloway, J. A. Will, W. E. Weirich, R. H. Grummer, R. G. Cassens, R. G. Kauffman, and E. J. Briskey. Effect of Environmental Temperature on Physiological Characteristics of Pigs with Fast and Slow Glycolyzing Muscles. J. of An. Sci. 32:1103-1106 (1971).
10. Campbell, A. M., G. Onin, D. Thomas, W. Weirich, J. A. Will, R. G. Cassens, and E. J. Briskey. The Effect of Exercise on Muscle ATPase. Histochemie 25:372-375 (1971).
11. Banchero, N., R. F. Grover, and J. A. Will: Oxygen Transport in the Llama (Lama glama). Resp. Physiol. 13:102-115 (1971).
12. Will, J. A., and G. E. Bisgard. Hemodynamic Effects of Oral Aminorex and Amphetamine in Unanesthetized Beagle Dogs. Thorax 27:120-126 (1972).
13. McKenzie, B. E., J. A. Will, and A. Hardie. The Electrocardiogram of the Turkey. J. Avian Dis. 15:737-744 (1971).
14. McKenzie, B. E., and J. A. Will. ECG Changes Following Influenza Infection in Turkeys. J. Avian Dis. 16:308-318 (1972).
15. Bisgard, G. E., J. A. Orr, Tonny Ungerer, and J. A. Will. Effect of Training on Pulmonary and Systemic Hemodynamics in Beagle Dogs. Lab. An. Sci. 22:72-76 (1972).
16. Will, J. A., and G. E. Bisgard. Cardiac Catheterization of Unanesthetized Large Domestic Animals. J. Appl. Physiol. 33(3):400-401 (1972).
17. Orr, J., T. Ungerer, J. Will, and L. B. Curet. Effect of Exercise Stress on Carotid, Uterine, and Iliac Blood Flow in Pregnant and Nonpregnant Ewes. J. Obst. and Gyn. 114(2):213-217 (1972).
18. McKenzie, B. E., B. C. Easterday, and J. A. Will. Light and Electron Microscopic Changes in the Myocardium of Influenza Infected Turkeys. Amer. J. Path. 69(2):239-254 (1972).
19. Will, J. A., G. E. Bisgard, A. V. Ruiz, and R. F. Grover. Models of Cardiopulmonary Function in Calves. In: Research Animals in Medicine, Lowell T. Harmison, Ed. DHEW Pub. No. (NIH) 72-333, U. S. Government Printing Office, Washington, D.C. 20402, October 2, 1973.
20. Ruiz, A. V., G. E. Bisgard, and J. A. Will. Hemodynamic Responses to Hypoxia and Hyperoxia in Calves at Sea Level and Altitude. Pflugers Archives. 344:275-286 (1973).
21. Ruiz, A. V., G. E. Bisgard, I. B. Tyson, R. F. Grover, and J. A. Will. Regional Lung Function in Calves During Acute and Chronic Pulmonary Hypertension. J. Appl. Physiol. 37:384-391 (1974).
22. Bisgard, G. E., A. V. Ruiz, R. F. Grover, and J. A. Will. Ventilatory Control in the Hereford Calf at 3400 Meters Altitude. Resp. Physiol. 21:271-296 (1974).
23. Will, J. A., and J. M. Kay. Hypertensive Pulmonary Vascular Disease Associated with Papain Emphysema in Rats. Respiration 31:208-220 (1974).
24. Zamora, C. S., T. Kowalczyk, W. G. Hoekstra, R. H. Grummer, and J. A. Will. Effects of Prednisone on Gastric Secretion and Development of Stomach Lesions in Swine. Am. J. Vet. Res. 36(1):33-39 (1975).
25. Allin, E. F., J. M. Miller, G. G. Rowe, and J. A. Will. Effects of Intraperitoneal Administration of Propranolol on the Mouse Heart: Histochemical and Electron Microscopic Observations. Am. J. Card. 33:639-642 (1974).
26. Bisgard, G. E., J. A. Will, I. B. Tyson, L. M. Dayton, R. R. Henderson, and R. F. Grover. Distribution of Regional Lung Function During Mild Exercise in Residents of 3100 m. Res. Physiol. 22:369-379 (1974).
27. Bisgard, G. E., J. A. Orr, and J. A. Will. Hypoxic Pulmonary Hypertension in the Pony. Am. J. Vet. Res. 36(1):49-52 (1975).

28. Rawlings, C. A., G. E. Bisgard, J. H. Dufek, D. D. Buss, J. A. Will, M. L. Birnbaum, P. S. Chopra, and D. R. Kahn. Prolonged Perfusion with a Membrane Oxygenator in Awake Ponies. J. of Thoracic and Cardio. Surg. 69(4):539-551 (1975).
29. Orr, J. A., G. E. Bisgard, H. V. Forster, C. A. Rawlings, D. D. Buss, and J. A. Will. Cardiopulmonary Measurements in Nonanesthetized, Resting Normal Ponies. Am. J. Vet. Res. 36(11):1667-1670 (1975).
30. Kay, J. M., P. Smith, D. Heath, and J. A. Will. The Effects of Phenobarbitone, Cinnarizine and Zoxazolamine on the Development of Right Ventricular Hypertrophy and Hypertensive Pulmonary Vascular Disease in Rats Treated with Monocrotaline. Cardio. Res., Volume X(2):200-205 (1976).
31. Orr, J. A., G. E. Bisgard, H. V. Forster, D. D. Buss, J. A. Dempsey, and J. A. Will. Cerebrospinal Fluid Alkalosis During High-altitude Sojourn in Unanesthetized Ponies. Respir. Physiol. 25:23-37 (1975).
32. Ungerer, T., J. A. Orr, G. E. Bisgard, and J. A. Will. Cardiopulmonary Effects of Mechanical Distension of the Rumen in Nonanesthetized Sheep. Amer. J. Vet. Res. 37(7):807-810 (1976).
33. Will, J. A., P. A. Katomski, and M. Manohar. The Influence of Species and Cardiac Hemodynamics on Removal of Norepinephrine (NE) by the Lung in Animal Subjects. Chest 71(2):287-289 (1977).
34. Hernandez-Vasquez, A., J. A. Will, and W. B. Quay. Quantitative Characteristics of the Feyrter (APUD) Cells of the Neonatal Rabbit Lung in Normoxia and Chronic Hypoxia. Thorax 32:449-456 (1977).
35. Will, J. A. Excellence-A Goal to Strive For. J. Vet. Med. Ed. 4(1):6-7 (Winter 1977).
36. Bisgard, Gerald E., and J. A. Will. Glucagon and Aminophylline as Pulmonary Vasodilators in the Calf with Hypoxic Pulmonary Hypertension. Chest 71(2) Suppl:263-265 (1977).
37. Hernandez-Vasquez, A., J. A. Will, and W. B. Quay. A Radioautographic Study of the Neuroepithelial Bodies of the Lungs in Fetal and Neonatal Rabbits. Cell and Tiss. Res. 186:203-207 (1978).
38. Demling, Robert, M. Manohar, and J. A. Will. The Effect of Glucagon on the Pulmonary Transvascular Fluid Filtration Rate. Chest 74:196-199 (1978).
39. Orr, J. A., T. Ungerer, G. E. Bisgard, and J. A. Will. Hemodynamic Effects of Acute Hypoxia and Minute Amounts of Endotoxin in Awake Swine. Am. J. Vet. Res. 38(11):1753-1756 (1977).
40. Emanuel, M. B., and J. A. Will. Cinnarizine in the Treatment of Peripheral Vascular Disease: Mechanisms Related to its Clinical Action. Proc. of Royal Soc. Med. 70(8):7-12 (1977).
41. Orr, J. A., T. Ungerer, E. Seavey, G. E. Bisgard, and J. A. Will. Hemodynamic Effects of Long Term Feeding of Sympathomimetic Amines to Swine. J. Environ. Path. Tox. 1:911-926 (1978).
42. Hernandez-Vasquez, A., J. A. Will, and W. B. Quay. Quantitative Characteristics of the Feyrter Cells and Neuroepithelial Bodies of the Fetal Rabbit Lung in Normoxia and Short Term Chronic Hypoxia. Cell Tiss. Res. 189:179-186 (1978).
43. Hayes, B. E., and J. A. Will. Pulmonary Artery Catheterization in the Rat. Amer. J. Physiol. 235(4):H452-H454 (1978).
44. Demling, R. H., and J. A. Will. Effect of Major Thermal Injury on the Pulmonary Microcirculation. Surgery 83:746-751 (1978).
45. Demling, R. H., and J. A. Will. Effect of Furosemide on the Pulmonary Transvascular Fluid Filtration Rate. Critical Care Medicine 6:317-319 (1978).
46. Demling, R., G. Niehaus, J. Will, and F. Belzer. Effect of Hemorrhagic Shock and Resuscitation on Pulmonary Microvascular Integrity. Surgical Forum 29:196-198 (1978).
47. Demling, R. H., M. Manohar, and J. A. Will. The Effect of Glucagon on the Pulmonary Transvascular Fluid Filtration Rate. Chest 74:196-199 (1978).
48. Manohar, M., G. E. Bisgard, V. Bullard, J. A. Will, D. Anderson, and J. H. G. Rankin. Myocardial Perfusion and Function During Acute Right Ventricular Systolic Hypertension.

Am. J. Physiol. 235(6):H628-H636 (1978).

49. Demling, R. H., G. Niehaus, A. Perea, and J. A. Will. Effect of Burn Induced Hypoproteinemia on Pulmonary Transvascular Fluid Filtration Rate. Surgery 85,3:339-343 (1979).
50. Niehaus, G., J. A. Will, and R. H. Demling. Lactic Dehydrogenase Activity in Lung Lymph During Hemorrhagic Shock, Resuscitation and Recovery. Lymphology 12:321-327 (1979).
51. Demling, R. H., M. Manohar, J. A. Will, and F. O. Belzer. Effect of Plasma Oncotic Pressure on the Pulmonary Microcirculation After Hemorrhagic Shock. Surgery 86:323-328 (1979).
52. Demling, R. H., M. Manohar, and J. A. Will. Relationship Between Pulmonary Transvascular Fluid Filtration Rate and Measured Starling Forces After Major Thermal Injury. Chest 76:448-453 (1979).
53. Wharton, J., J. M. Polak, S. R. Bloom, J. A. Will, M. R. Brown, and A. G. E. Pearse. Substance P-like Immunoreactive Nerves in Mammalian Lung. Invest. and Cell Path. 2:3-10 (1979).
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56. Manohar, M., G. E. Bisgard, V. Bullard, J. A. Will, D. Anderson, and J. H. G. Rankin. Regional Myocardial Blood Flow and Myocardial Function During Acute Right Ventricular Pressure Overload in Calves. Circ. Res. 44:531-539 (1979).
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60. Demling, R. H., M. Manohar, and J. A. Will. Response of the Pulmonary Microcirculation to Fluid Loading After Hemorrhagic Shock and Resuscitation. Surgery 87:552-560 (1980).
61. Demling, R. H., N. Duy, M. Manohar, J. A. Will, B. Hopps, and J. Starling. Changes in Plasma and Lung Lymph Lysosomal Enzymes After Major Thermal Injury. The Journal of Trauma 20(9):791-794 (1980).
62. Ghodsi, F., and J. A. Will. Changes in Pulmonary Structure and Function Induced by Monocrotaline Intoxication. Am. J. Physiol. (Heart Circ. Physiol. 9) H149-H155 (1981).
63. Keith, I. M., L. A. Wiley, and J. A. Will. Pulmonary Neuroendocrine Cells: Decreased Serotonin Fluorescence and Stable Argyrophil-cell Numbers in Acute Hypoxia. Cell and Tiss. Res. 214:201-205 (1981).
64. Will, J. A. Neuroendocrine and Metabolic Factors in Pulmonary Circulatory Control. Adv. in Circ. Res. 8:l3-20 (l982).
65. Keith, I. M., and J. A. Will. Hypoxia and the Neonatal Rabbit: Pulmonary Neuroendocrine Cell Numbers, 5-HT Fluorescence Intensity and the Relationship to Pulmonary Arterial Thickness. Thorax 36:767-773 (1981).
66. Hand, J. M., J. A. Will, and C. K. Buckner. Effects of Leukotrienes on Isolated Guinea Pig Pulmonary Arteries. Eu. J. Pharm. 76:439-442 (1981).
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68. Hand, J. M., and J. A. Will, and C. K. Buckner. Pharmacological Alteration of Antigen-induced Contraction of Pulmonary Arteries Isolated From the Actively Sensitized Guinea Pig. J. Pharm. Exper. Therap. 220(3):526-535 (1981)

69. Keith, I. M., and J. A. Will. Dynamics of the Neuroendocrine Cell-regulatory Peptide System in the Lung. Exper. Lung Res. 3:387-402 (1982).
70. Brown, M. J., D. F. Erichsen, R. Helgerson, and J. A. Will. A Modification for Preparing the Chronic Lung Lymph Fistula in Sheep. J. Appl. Physiol. 52(6): l664-l666 (l982).
71. Buckner, C. K., S. Cueva, S. Abdalla, and J. A. Will. Studies on Segmental Differences in Sensitivity to Adrenergic Agonists in Pulmonary Arteries Isolated from the Guinea Pig. Eur. J. Pharm. 82:l37-l46 (1982).
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73. Keith, I. M., E. K. Weir, and J. A. Will. Captopril: Association with Fetal Death and Pulmonary Vascular Changes in the Rabbit. Proc. Soc. Exper. Biol. Med. 170:378-383 (1982).
74. Weir, E. K., and J. A. Will. Oxidants: A New Group of Pulmonary Vasodilators. Bull. Europ. Physiopath. Resp. 18(suppl. 4):81-85 (1982).
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76. Van Cauteren, H., R. Marsboom, J. Vandenberghe, and J. A. Will. Safety Studies Evaluating the Effect of Mebendazole on Liver Function in Dogs. J.A.V.M.A. Vol. 183(1):93-98 (1983).
77. Malcorps, C. M., J. A. Will, and A. G. Herman. Kinetics of Serotonin Uptake in the Isolated Dog Lung. Archives internationales de Pharmacodynamie et de Therapie Vol. 262:319-321, No. 2, April 1983.
78. Hand, J. M., R. B. Laravuso, and J. A. Will. Relaxation of Isolated Guinea Pig Trachea, Bronchi and Pulmonary Arteries Produced by Vasoactive Intestinal Peptide (VIP). Eur. J. Phar. 98:279-284 (1984).
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83. Gonder, J. C., R. A. Proctor and J. A. Will. Genetic differences in oxygen toxicity are correlated with cytochrome P-450 inducibility. Proc. Nat. Acad. Sci. 82:63l5-6320 (l985).
84. Burhop, K. E., R. A. Proctor, R. B. Helgerson, C. H. R Raetz, J. R. Starling, J. A. Will. Pulmonary Pathophysiologic Changes in Sheep Caused by the Endotoxin Precursor, lipid X. J. Appl. Physiol. 59:1726-1732 (1985).
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sheep to chemically defined precursors of E. coli Endotoxin. J. Appl. Physiol. pp. 1141-1149 (1987).
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