

BIBLIOGRAPHY :

- ABRAHAM E.P., CHAIN E., FLETCHER C.M., GARDNER A.D.,  
HEATLEY N.G., JENNINGS M.A. & FLOREY H.W. (1941):  
Further observations on penicillin. *Lancet*, ii,  
177-188.
- ADAMSON R.H., BORGMAN R.L., FOUTS J.R. & LONG J.P.  
(1961): The neuromuscular blocking action of  
paromomycin. *Antibiotics and Chemotherapy*, 11,  
429-433.
- ADAMSON R.H., MARSHALL N. & LONG J.P. (1960):  
Neuromuscular blocking properties of various  
polypeptide antibiotics. *Proc. Soc. expt. Biol.  
Med.*, 105, 494-497.
- ARUNLAKSHANA O. & SCHILD H.O. (1959): Some quanti-  
tative use of drug antagonists. *Br. J. Pharmac.  
Chemother.* 14, 48-58.
- BARCZAK J.S. & VANE J.R. (1965): The release of  
catecholamines from the adrenal medulla by  
histamine. *Br. J. Pharmac.* 25, 728-747.
- BARTZ Q.R., EHRLICH J., MOLD J.D., PENNER M.A. &  
SMITH R.M. (1951): Viomycin, a new tuberculo-  
static antibiotics *Am. Rev. Tuber.*, 63, 4-6.
- BEIN H.J. & MEIER R. (1953) : Zur pharmakologischen  
Analyse der Blutdruck steigerung durch coramin.

histamine, und nicotine bu der narkotisierten katze. Naunyn-Schmied-berg's Arch.exp.Path. Pharmak,219,273-283.

BEZZI G. & GESSA G.L. (1961): Influence of antibiotics on neuromuscular transmission in mammals. Antibiotics and chemotherapy,11,710-714.

BOWIE J.H., COX D.A., JOHNSON A.W. & THOMAS G.(1964): Viomycin. Tetrahedron Letters, No.45,3305.

BOWIE J.H., JOHNSON A.W. & THOMAS G.(1964a): The chromophore of viomycin. Tetrahedron Letters, No.15,863.

BRAZIL O.V. (1960): Effect of streptomycin on denervated skeletal muscle. Folia.Clin.et.Biol., 29,20-27. Cited in C.A.,56,879f(1962).

BRAZIL O.V. & CORRADO A.P. (1957): The curariform action of streptomycin. J.Pharmac.exp.Ther., 127,452-459.

BRAZIL O.V., CORRADO A.P. & BERTI F.A. (1959): Neuromuscular block produced by streptomycin and some of its degradation products. Curare and curarelike agents. ed. Aluisio Pimenta. Proceedings International Symposium. Rio de Janeiro,1957,pp.415-421. Elsevier Publishing Co.

BRAZIL O.V. & FRANCESCHI J.P. (1969): The nature of neuromuscular block produced by neomycin and gentamycin. Arch.int.Pharmacodyn.,179,78-85.

- BRAZIL O.V., RAMOS A.O., SPERENDIO L.G. & MARTINEZ A.L. (1961): Viomycin, pharmacological action on myoneural junction, ganglionic synapse and smooth muscle. *Chemotherapia(Basel)*, 3, 521-531.
- BRINK N.G. & FOLKERS K. (1949): Chemistry of streptomycin: Streptomycin, Nature and practical application Ed. Waksman S.A. The Williams and Wilkins Co., Baltimore, p.36.
- BRINK N.G., KUEHL F.A.Jr., FLYNN E.G. & FOLKERS K. (1946): Streptomyces antibiotics XI. The structure of tetraacetyl-bis-desoxystreptobiosamine. *J. Am. Chem. Soc.*, 68, 2405.
- BRINK N.G., KUEHL F.A.Jr., FLYNN E.G., & FOLKER K. (1948): Streptomyces antibiotics XVI. The structure of bis-desoxystreptose, dihydrodesoxystreptose and tetracetyl-bis-desoxystreptobiosamine. *J. Am. Chem. Soc.*, 70, 2085-2091.
- BURN J.H. (1952): Practical pharmacology. Blackwell & Scientific Publication (1952), p.1-3.
- BURN J.H. & DALE H.H. (1926): The vasodilator action of histamine and its physiological significance. *J. Physiol (Lond.)*, 61, 185-214.
- CAMPOS H.A. & FREIDMAN A.H. (1963): The influence of acute sympathetic denervation, reserpine and cholinexylyl ether on vagal escape. *J. Physiol (Lond.)*, 169, 249-262.

- CARTER H.E., CLARK R.K., DICKMAN S.R., LOO Y.H.,  
MEEK J.S., SKELL P.S., STRONG W.A., ALBERI J.T.,  
BARTZ Q.R., BINKLAY S.B., CROOKS N.M., HOOPER  
I.R. & REBSTOCK M.C. (1946): The degradation of  
streptomycin and structure of streptidine and  
streptamine. *Science*, 103, 540.
- CARTER H.E., LOO Y.H. & ROTHROCK J.W. (1949): Degra-  
dation products of streptamine:  $\alpha$ -r-diamino  
 $\beta$ -hydroxyglutaric acid. *J. Biol. Chem.*, 179,  
1027-1035.
- COFFEY G.L., ANDERSON L.E., FISHER M.W., GALBRITH  
M.M., HILLEGAS A.B., KOSHBERGER D.L., THOMSON  
P.E., WESTON K.S. & ELHRICH J. (1959): Biolo-  
gical studies of paromomycin. *Antibiotics and  
Chemotherapy*, 9, 730-738.
- CORRADO A.P. (1958): Ganglioplegic action of stre-  
ptomycin. *Arch. int. Pharmacodyn.*, 114, 166-178.
- CORRADO A.P., RAMOS A.O. & De ESCOBAR C.T. (1959):  
Neuromuscular blockade by neomycin, potentia-  
tion by ether anaesthesia, and d-tubocurarine  
and antagonism by calcium and prostigmine.  
*Arch. int. Pharmacodyn.*, 121, 380-394.
- CORRADO A.P. & RAMOS A.O. (1960): Some pharmaco-  
dynamic aspects of new antibiotic kanamycin.  
*Rev. Brasil. Biol.*, 20, 43-50. Cited in *C.A.*, 54,  
23023b(1960).

- CRON M.J., EVANS D.L., PALERMITI F.M., WHITEHEAD D. F., HOOPER I.R., PAUL C.H.V. & LEMIEUX R.U. (1958c): Kanamycin V. The structure of kanosamine. J.Am.Chem.Soc., 80, 4141-4142.
- CRON M.J., FARDIG O.B., JOHNSON D.L., SCHMITZ H., WHITEHEAD D.F., HOOPER I.R. & LEMIEUX R.U. (1958a): Kanamycin II. The hexosamine units. J.Am.Chem.Soc., 80, 2342.
- CRON M.J., FARDIG O.B., JOHNSON D.L., WHITEHEAD D.F., HOOPER I.R. & LEMIEUX R.U. (1958b): Kanamycin IV. The structure of Kanamycin. J.Am.Chem.Soc. 80, 4115.
- CRON M.J., JOHNSON D.L., PALERMITI F.M., PERRON Y., TAYLOR H.D., WHITEHEAD D.F. & HOOPER I.R. (1958) Kanamycin I., characterisation and acid hydrolysis studies. J.Am.Chem.Soc., 80, 752.
- De LA LANDE I.S. & RAND M.J. (1965): A simple isolated nerve-blood vessel preparation. Aust.J.exp.Biol.Med.Sci., 43, 639-656.
- DUBOS R.J. (1939): Bactericidal effect of an extract of soil bacillus on gram positive cocci. Proc.Soc.exptl.Biol.Med., 40, 311-312.
- DUTCHER J.D. & DONIN M.N. (1952): The identity of neomycin A., neamine and methanolysis product of neomycin B and C. J.Am.Chem.Soc., 74, 3420-3422.

- DUTCHER J.D., HOSANSKY N., DONIN M.N. & WINTERSTEINER O. (1951): Neomycin B and C and some of their degradation products. J.Am.Chem.Soc., 73, 1384.
- DUTCHER J.D., HOSANSKY N. & SHERMAN J.H. (1953): Chemical assay for neomycin. Antibiotics and Chemotherapy, 3, 534-536.
- DYER J.R. & TODD A.W. (1963): The absolute configuration of streptidine in streptomycin. J.Am. Chem.Soc., 85, 3896-3897.
- DYER J.R., HAYES H.B., MILLER E.G. & NASSAR R.F. (1964): Viomycin I. The structure of viomycin. J.Am.Chem.Soc., 86, 5363-5364.
- DYER J.R., KELLOGG C.K., NASSAR R.F. & STREETMAN W.E. (1965): Viomycin II. The structure of viomycin. Tetrahedron Letters, No. 10, 585.
- DZOLJIC M. & ANTANACKOVIC D. (1965): Actions of streptomycin on guinea pig ileum peristaltis. Arch.int.Pharmacodyn, 156, 279-284.
- ELMQUIST D. & JOSEFSSON J.O. (1962): The nature of the neuromuscular block produced by neomycin. Acta.Physiol.Scand., 54, 105-110.
- ENGEL M.L. & DENSON J.S. (1957): Respiratory depression due to neomycin. Surgery, 42, 862-864.
- EVANS R.M. (1965): Antibiotics derivable from sugars. The chemistry of the antibiotics used

- in medicine. ed. Evans. R.M. Pergamon Press  
(1965), pp.75-101.
- FEIGL F. (1954): Spot Test. Ed.Fritz Feigl.Translated by Oesper. R.E. Vol.1. 4th Edn.Elsevier publishing Company,1954, pp.203-206.
- FELDBERG W. (1941): The action of bee venom, cobra-venom, lysolecithin on the adrenal medulla.J. Physiol(Lond.),99,104-118.
- FINLEY A.C., HOBBY G.L., HOCHSTEINF, LESS T.M.,  
LENNERT T.F., MEANS J.A., P'AN S.Y., REGNA P.P.,  
ROUTIEN J.B., SOBIN B.A., TATE K.B. & KANE  
J.H. (1951): Viomycin, a new antibiotics active  
against mycobacteria.Am.Rev.Tuber.,63,1-3.
- FLEMING A. (1929): On the antibacterial action of  
cultures of a penicillium,with special reference  
to their use in the isolation of B.  
influenza.Br.J.exp.Path.,10,226-236.
- FLOREY H.W. (1949): Historical Introduction. In  
Antibiotics Vol.I. ed:Florey H.W., Chain E.,  
Heatley N.G., Jennings M.A., Sanders A.G.,  
Abraham E.P., and Florey M.E. Oxford University Press, New York,1949.
- FRIED J. & WINTERSTEINER O. (1945): Crystalline  
reineckates of streptothricin and streptomycin  
Science,101,613-615.

- FURCHGOTT R.F. & BHADRAKOM S. (1953): Reactions of strips of rabbit aorta to epinephrine, isopropyl-arterenol, sodium nitrite and other drugs. J.Pharmac.exp.Ther.,108,129-143.
- GADDUM J.H., HAMEED K.A., HATHWAY D.E. & STEPHENS F.F. (1955): Quantitative studies of antagonists for 5-hydroxytryptamine. Q.J.Physiol., 40,49-74.
- GOKHALE S.D., GULATI O.D. & KELKAR V.V. (1967): Supersensitivity to catecholamines following guanethidine. Br.J.Pharmac.Chemotherap.,30, 445-462.
- GOLDBERG L.E. (1964): Pharmacological study of kanamycin.Antibiotiki,9,414-420.Cited in C.A. 61,878f(1964).
- GOMAZKOV O.A. (1963): Effect of antibiotics on the isolated heart of cold blooded and warm blooded animals. Antibiotiki,8,147-151. Cited in C.A., 62,4475g(1965).
- GOUREVITCH A., HUNT G.A. & LEIN J. (1958): Antibacterial activity of kanamycin.Antibiotics and Chemotherapy,8,149-159.
- GREIG-SMITH R. (1917): Contribution to our knowledge of soil fertility: the action of certain micro-organisms upon the number of bacteria in the soil. Proc.Linnean Soc.,N.S.Wales,42,162-166.

- HASKELL T.H., FUSARI S.A., FROHARDT R.P. & BARTZ Q.R.(1952): The chemistry of viomycin. J.Am. Chem.Soc.,74,599-602.
- HEILMAN D.H., HEILMAN F.R., HINSHAW H.C., NICHOLAS D.R. & HERREL W.E. (1945): Streptomycin, absorption, diffusion, excretion and toxicity. Am.J.Med.Sc.,210,576-584.
- HINSHAW H.C. & FELDMAN W.H.(1945): Streptomycin in treatment of clinical tuberculosis: a preliminary report. Proc.Staff.Meet.Mayo Clin., 20,313-318.
- HIRATA M. (1964): Bacteriostatic chemotherapeutics and malignant growth: change of liver catalase activity under prolonged administration of bacteriostatic chemotherapeutic.Hiroshima.J.Med. Sc.,13,1-16. Cited in C.A.,63,4835f(1965).
- HORII S., HITOMI H. & MIYAKE A. (1963): Chemistry of zygomycin A: Separation of zygomycin A and zygomycin A<sub>1</sub> and their characterisation. J. Antibiotics Ser.A.(JAPAN),16,144-145.
- HUNTER G.D. (1956): G.Microbiol.,2,312. Cited in Chemistry and classification of antibiotics. Abraham E.P. and Newton G.G.E.(1960),Br.Med. Bull.,16,3-10.

- IWATSUKI K., UEDA T., YAMADA A., NISHIMURA S. & KANEMARU K. (1958): Effect of streptomycin on the action of muscle relaxants. Med.J.Shinshu Univ.,3,229-330. Cited in C.A.,56,9358d(1962).
- JESKE J., SZURSKA H., BORZECKI Z. & LASTOWSKI Z. (1964): Pharmacodynamic properties of viomycin. Ann.Univ.Mariae Curie Sklodowska Lubin-Polonia Sec.D.,18,311-317. Cited in C.A.,62,9647a(1965).
- JINDAL M.N. & DESHPANDE V.R. (1958): Neuromuscular blockade by streptomycin and dihydrostreptomycin.Br.J.Pharmac.Chemother.,15,506-509.
- KUBIKOWSKI P. & SZRENIAWSKI Z. (1963): The mechanism of the neuromuscular blockade by antibiotics. Arch.int.Pharmacodyn.,146,549-560.
- KUEHL F.A., FLYNN E.G., BRINK N.G. & FOLKERS K. (1946):Streptomyces antibiotics X. The degradation of streptomycin and dihydrostreptomycin with ethylmercaptan. J.Am.Chem.Soc.,68,2096-2101.
- KUEHL F.A., PECK R.L., WALTI A. & FOLKERS K.(1945): Streptomyces antibiotics I. Crystalline salts of streptomycin and streptothricin. Science, 102,34-35.
- LEACH B.E., De VRIES W.H., NELSON H.A., JACKSON W.G. & EVANS J.S. (1951): Isolation and characterisation of neomycin.J.Am.Chem.Soc.,73,2797-2800.

- LEACH B.E. & TEETERS C.M. (1951): Neamine, an antibacterial degradation product of neomycin. J.Am.Chem.Soc., 73, 2794-2797.
- LEADERS F., PITTINGER C.B. & LONG J.P. (1960): Some pharmacological properties of selected antibiotics. Antibiotics and Chemotherapy, 10, 503-507.
- LEMIEUX R.U., POLGLASE W.J., De WALT C.W. & WOLFROM M.L. (1947): Degradative studies on streptomycin. J.Am.Chem.Soc., 69, 1838.
- MAEDA K., UEDA M., YAGASHITA K., KAWAJI S., KANDO S. MURASE M., TAKEUCHI T., OKAMI Y. & UMEZAWA H. (1957): Studies on kanamycin, J.Antibiotics. Ser.A.(JAPAN), 10, 228-232.
- MARSHAL E.K. (1948): Absorption, distribution and excretion of streptomycin. J.Pharmac.exp.Ther. 92, 43-48.
- MASAYASU YAMASAKI (1954): The effect of antituberculous substance on the autonomic nervous system I. The pharmacodynamic function of streptomycin. Kekkaku (Tuberculosis), 29, 286-290. -/  
Cited in C.A., 48, 13091a(1954).
- MIDDLETON W.H., MORGAN D.D. & MOYERS F. (1957): Neostigmine therapy for apnoea occurring after administration of neomycin. J.Am.Med.Ass., 165, 2186-2187.

- MILLER D.A., PENDELTON R.G. & RICHMOND A.T. (1968):  
Cardiac effects of vagal stimulation in the  
anaesthetised cats. Br. J. Pharmac., 33, 390-395.
- MOLITOR H. (1949): The pharmacology of streptomycin;  
streptomycin, nature and practical application  
ed. Waksman S.A. The William and Wilkins Comp.,  
Baltimore, 1949, pp. 254-275. e/
- MOLITOR H., GRAESLE O.E., KUNA S., MUSHETT C.W. &  
SILBER R.H. (1946): Some toxicological and  
pharmacological properties of streptomycin. J.  
Pharmac. exp. Ther., 86, 151-173.
- MOLITOR H. & KUNA S. (1949): Pharmacological stu-  
dies of the neurotoxic properties of strepto-  
mycin I. The relationship between acute and  
delayed neurotoxic effects. Arch. int. Pharma-  
codyn., 78, 197-202.
- MOORE J.I. (1967): Effect of cocaine on vagal escape  
in the open chest dog. Proc. Soc. exp. Biol. Med.,  
124, 163-167.
- NAIMAN J.G., SAKURA K. & MARTIN J.D. (1965): The  
antagonism of calcium and neostigmine to kana-  
mycin induced neuromuscular paralysis. J. Surg.  
Res., 5, 323-328. C.A., 63, 3490g (1965).
- OKA H. (1965): Auditory toxicity of streptomycin,  
and kanamycin in tuberculous patients. J. Anti-  
biotics. Ser. A. (JAPAN), 18, 89-98.

OSTERLOW G. (1963): Neuromuscular effecte basischer streptomycines antibiotica und deren aufhebung durch calcium. Arzneimittel Forsch., 11, 1139-1142. u/

OWADA K. (1962): Experimental studies on the toxicity of kanamycin its hydrolysed products and neomycin. Chemotherapia (Basel), 5, 277-293.

PECK R.L., GRABER R.P., WALTIA PEEL E.W., HOFFHINE C.E. & FOLKERS K. (1945): Streptomycines antibiotics IV. Hydrolytic cleavage of streptomycin to streptidine. J. Am. Chem. Soc., 68, 29-31.

PECK R.L., HOFFHINE C.E., GALE P.H. & FOLKERS K. (1949): Streptomycin antibiotics, XXIII. Isolation of neomycin A. J. Am. Chem. Soc., 71, 2590-2591.

PECK R.L., HOFFHINE C.E., GALE P.H. & FOLKERS K. (1953): Streptomycines antibiotics XXV. Isolation of neomycin A. J. Am. Chem. Soc., 75, 1018-1021.

PECK R.L., HOFFHINE C.E., PEEL E.W., GRABER R.P., HOLLY F.W., MOZINGO R. & FOLKERS K. (1946): Streptomycines antibiotics VII. Structure of streptidine. J. Am. Chem. Soc., 68, 776-781.

PERRY W.L.M. (1968): Pharmacological experiments on isolated preparations. By Staff of the Department of Pharmacology, University of Edinburgh. E & S Livingstone Ltd., Edinburgh and London (1968), p. 108.

- PITTINGER C.B. & LONG J.P. (1958): The neuromuscular blocking action of neomycin sulphate. *Antibiotics and Chemotherapy*, 8, 198-203.
- POPOVICI G.G., MOISA L., NEGOITA H., MANOILA V., BOTEZ E., HAFNER R. & GUMENI N. (1965): The influence of certain antibiotics on intestinal motor activity. *Arch.int.Pharmacodyn.*, 154, 374-381.
- POPOVICI G.G., NEGOITA M., MOISA L., MANOILA V., HAFNER R. & BOTEZ E. (1967): The influence of some antibiotics on uterine motor activity in the guinea pig. *Arch.int.Pharmacodyn.*, 166, 20-25.
- PRIDGEN J.E. (1956): Respiratory arrest thought to be due to intraperitoneal neomycin. *Surgery*, 40, 571-574.
- RAMOS L., BUSTOS R.E., DeLUCA A.M. & RAMOS A.D. (1962): Comparative study of the pharmacologic activity of the antibiotics streptomycin, neomycin, kanamycin and viomycin on autonomic ganglia, neuromuscular junction, smooth muscle and heart. *Rev.Brasil.Biol.*, 22, 221-226. Cited in C.A., 58, 11873g (1963).
- RINEHART K.L., AGROUDELIS A.D., CULBERTSON T.P., CHILTON W.S. & STREIGLER K. (1960): Chemistry of the neomycins VI. Structure of neobiosamine B. *J.Am.Chem.Soc.*, 82, 2970-2971.

RINEHART K.L., CHILTON W.S., HICHENS M. & PHILLIP-  
SBORN W.(1962): Chemistry of neomycins XI.  
N.M.R. assignment of the glycosidic linkages.  
J.Am.Chem.Soc.,84,3216-3218.

RINEHART K.L., HICHENS M. & AGROUDELIS A.D. (1962):  
Biogenesis of neomycins. Antimicrobial agents  
and Chemotherapy (1961),268-273. ed. FINLAND M.  
& SAVAGE G.M. Proceedings of 1st International  
Conference on Antimicrobial Agents and Chemo-  
therapy.

RINEHART K.L., HICHENS M., FUGHT J.L. & CHILTON W.S.  
(1962): Structural and biosynthetic studies  
on neomycins. Antimicrobial agents and  
Chemotherapy (1962),pp.193-200.

RINEHART K.L. & WOO P.W.K. (1958): Chemistry of  
the neomycins, III. The structure of neobio-  
samine C.J.Am.Chem.Soc.,80,6463-6464.

RINEHART K.L., WOO P.W.K. & AGROUDELIS A.D.(1958).  
Chemistry of neomycins IV. Isolation of neo-  
samines B and C. Stereochemistry of neobiosa-  
mine. J.Am.Chem.Soc.,80,6461-6462.

SCHATZ A., BUGIE E. & WAKSMAN S.A. (1964): Strepto-  
mycin, a substance exhibiting antibiotic  
activity against gram-negative and gram-posi-  
tive bacteria. Proc.Soc.exp.Biol.Med.,55,66-69.

- SCHMITZ H., FARDIG O.B., O'HERRON F.A., ROUSCHE M.A.  
AND HOOPER I.R. (1958): Kanamycin III. Kanamycin B. J.Am.Chem.Soc., 80, 2911-2912.
- SIKH S.S. & SACHADEV K.S. (1965): Duration of the neuromuscular block produced by streptomycin. Br.J.Anaesth., 37, 158-160.
- SLATER I.H. & DRESSEL P.E. (1952): The pressor effect of histamine after autonomic ganglion blockade. J.Pharmac.exp.Therap., 105, 101-107.
- SOKOLL M.D. & DIECKE F.P.J. (1969): Some effects of streptomycin on frog nerve in vitro. Arch. int.Pharmacodyn., 177, 332-339.
- SPENCER J.N., HARTELL G.P. & SCHULTZ F.H. (1950): Neomycin toxicity studies. Fed.Proc., 9, 317.
- SPERENSKAYA T.A. (1964): Inhibition of the toxic action of streptomycin on nerve muscle preparation from a cold blooded animal. Doki. Akad. Nauk. S.S.S.R., 155, 719-720. Cited in C.A., 62, 1133a(1964).
- STEBBINS R.B., GRAESSLE O.E. & ROBINSON H.J. (1948): Studies on absorption and excretion of streptomycin in animals. Proc.Soc.exp.Biol.Med., 60, 127-128.
- SWAIN H.H., KIPLINGS G.E. & BRODY T.M. (1956): Actions of certain antibiotics on the isolated dog heart. J.Pharmac.exp.Ther., 117, 151-159.

SWART E.A., LECHEVALIER H. & WAKSMAN S.A. (1951):

The identity of the neomycin complex as measured by counter current distribution and microbial analysis. J.Am.Chem.Soc., 73, 3253-3255.

SZYGIELSKI J. (1932): Die adrenalinabsondernde

Wirkus des histamine and ihre Beinflunsung durch Nikatin. Naunyn-Schmiedberg's Arch. expt.Path.Pharmak., 166, 319-322.

TIMMERMAN J.C., LONG J.P. & PITTINGER C.B. (1959):

Neuromuscular blocking properties of various antibiotic agents. Toxicol.Appl.Pharmacol., 1, 299-304.

TISCH D.E., HUFTALEN J.B. & DICKISON H.L. (1958):

Pharmacological studies with kanamycin. Ann. N.Y.Acad.Sci., 76, 44-65.

TRENDELENBURG U. (1961): The pressor response of cat

to histamine and pilocarpine. J.Pharmac.exp. Ther., 131, 65-72.

UMEZAWA H., ITO Y. & FUKATSU S. (1958): Partial

structure of kanamycin. J.Antibiotics Ser.A. (JAPAN), 11, 120-121.

UMEZAWA H., UEDA M., MAEDA K., YAGISHITA K., KONDO

S., OKAMI Y., UTAHARA R., OSATO Y., NITTA K. & TAKEUCHI T. (1957): Production and isolation of a new antibiotic kanamycin. J.Antibiotics Ser.A. (JAPAN), 10, 181-188.

UNITED STATES Pharmacopia XV (1955): Recording  
mercury manometer page:837. The Pharmacopeia  
of the United States of America. Mack Printing  
Company. Easton, Pa. U.S.A.

VEIS R.A. & BYKOVA M.A. (1965): Comparative pharma-  
cological characteristics of antituberculosis  
antibiotics. Probl. Tuberkuleza 1965(a), 67-71.  
Cited in C.A., 65, 6142a (1966).

VEIS R.A., STOROZHEV I.A. & BERZINE B.K. (1963):  
Pharmacology of florimycin (Viomycin):  
Antibiotiki, 8, 910-914. Cited in C.A., 62, 958g  
(1965).

VERMIER V.G. & ALLEVA F.R. (1960): Bioassay of  
kanamycin toxicity. Fed. Proc., 19, 266.

VOGT M. (1952): The secretion of the denervated  
adrenal medulla of the cat. B.J. Pharmac., 7,  
325-330.

VUILLEMIN P. (1889): Antibiose et symboise. Assoc.  
france. avance. Sci. Paris., 2, 525-542. Cited in  
Actinomycetes Ed. Waksman S.A. and Lechevalier  
H.A. Williams and Wilkin Co. Baltimore, p.9.

WAKSMAN S.A. (1947): What is an antibiotic or an  
antibiotic substance? Mycologia, 39, 565-569.

WAKSMAN S.A. (1947a): Microbial antagonisms and  
antibiotic substances. ed. Waksman S.A. 2nd ed.  
Commonwealth Fund, New York.

- WAKSMAN S.A. & LECHEVALIER H. (1949): Neomycin a new antibiotic active against streptomycin resistant bacteria including tuberculosis organisms. *Science*, 109, 305.
- WAKSMAN S.A. & LECHEVALIER H.A. (1962): The Actinomycetes, Vol.III. The William and Wilkins Co., Baltimore, p.9.
- WALLACE E.G. (1970): History of the development of antibiotics. *Clinical Medicine*, 77, 10-17.
- WARNER C.A., TOMPSETT R., MUSCHENHEIM C. & McDERMOT W. (1951): Absorption and excretion of viomycin in humans. *Proc.Soc.exp.Biol.Med.*, 76, 292.
- WEBBER B.M. (1957): Respiratory arrest following intraperitoneal administration of neomycin. *Am.Med.Ass. Arch.Surg.*, 75, 174-176.
- WELCH H., WRIGHT W.W., WEINSTEIN H.I. & STAFFA A.W. (1958): In vitro and pharmacological studies with kanamycin. *Ann.N.Y.Acad.Sci.*, 76, 66-80.
- WELSCH M. (1937): De quelques proprieties du principe bacteriolitique des actinomyces. *Compt. rend.Soc.biol.*, 126, 247-249.
- WOLFROM M.L. & OLIN S.M. (1948): Abstract of papers, 113th meeting Amer.Chem.Soc.April, p.59. Cited in "Streptomycin, nature and practical application. ed.Waksman S.A. Williams and Wilkins Co. 1949, p.60.

11.

WOLFRAM M.L., OLIN S.M. & POLGLASE W.J. (1950):

Synthesis of streptidine. J. Am. Chem. Soc., 72,  
1724-1729.

ZAIJABOV V. (1961): Neurotropic action of isonicotinic acid and streptomycin. Sb. Tr. Nauchn. Inst. Tuberk, 7, 85-95. Cited in C.A., 62, 3302h (1965).

ZINTEL H.A., FLIPPIN H.F., NICHOLS A.C., WILEY M.M. & RHODS J.E. (1945): Studies on streptomycin in man I. Absorption distribution, excretion and toxicity. Am. J. Med. Sci., 210, 421-430.