



REFERENCES

1. Lorian, V., and Waluschka, A. "Blood Culture Showing Aberrant Forms of Bacteria." American Journal of Clinical Pathology 57 (March 1972): 406-409.
2. Louria, D.B.; Kaminski, T.; Grieco, M., and Singer, J. "Aberrant Forms of Bacteria and Fungi Found in Blood or Cerebrospinal Fluid." Archives of Internal Medicine 124 (July 1969): 39-48.
3. Edwards, L.D.; Levin, S.; Balagtas, R.; Lowe, P.; Landau, W., and Lepper, M.H. "Ordering Patterns and Utilization of Bacteriologic Culture Reports." Archives of Internal Medicine 132 (November 1973): 678-682.
4. Napgezek, M.R., and Hall, W.H. "Nonclostridial Crepitant Cellulitis due to Klebsiella." Minnesota Medicine 58 (May 1975): 377-378.
5. Lorian, V., and Atkinson, B. "Abnormal Forms of Bacteria Produced by Antibiotics." American Journal of Clinical Pathology 6 (November 1975): 678-688.
6. Marr, A.G.; Harvey, J.J. and Trentini, W.C. "Growth and Division of *Escherichia coli*." Journal of Bacteriology 91 (June 1966): 2388-2389.

7. Ecker, R.E., and Schaechter, M. "Ribosome Content and the Rate of Growth of *Salmonella typhimurium*." Biochemica et Biophysica Acta 76 (October 1963): 275-279.
8. Gardner, A.D. "Morphological Effects of Penicillin on Bacteria." Nature 146 (December 1940): 837-838.
9. Brzin, B. "Unusual Cell Form of *Bacterium anitratum* Produced by Sulfonamides." Experientia 22 (March 1966): 149-150.
10. Dienes, L. "The Development of *Proteus* Cultures in the Presence of Penicillin." The Journal of Bacteriology 57 (May 1949): 529-546.
11. Greenwood, D., and O'Grady, F. "Comparison of the Responses of *Escherichia coli* and *Proteus mirabilis* to Seven β -Lactam Antibiotics." The Journal of Infectious Disease 128 (August 1973): 211-222.
12. Lorian, V., and Poppola, B. "The Effect of Nitrofurantoin on the Morphology of Gram-negative Bacilli." The Journal of Infectious Disease 125 (February 1972): 187-189.
13. Lorian, V., and Sabath, L.D. "Penicillins and Cephalosporins: Differences in Morphological Effects." The Journal of Infectious Disease 125 (May 1972): 560-564.

14. Perkin, R.L., and Miller, M.A. "Scanning Electron Microscopy of Morphological Alterations in *Proteus mirabilis* Induced by Cephalosporins and Semisynthetic Penicillins." Canadian Journal of Microbiology 19 (February 1973): 251-255.
15. Dring, G.J., and Hurst, A. "Observations on the Action of Benzylpenicillin on a Strain of *Streptococcus lactis*" The Journal of General Microbiology 55 (February 1969): 185-194.
16. Klainer, A.S., and Perkins, R.L. "Normal and Abnormal Morphology of Microorganisms: A Scanning-beam Electron Microscope Study." The Journal of the American Medical Association 215 (March 1971): 1655-1657.
17. Klainer, A.S., and Perkin, R.L. "Antibiotic-induced Alterations in the Surface Morphology of Bacterial Cells: A Scanning-beam Electron Microscope Study." The Journal of Infectious Disease 122 (October 1970): 323-328.
18. Lorian, V. "Some Effects of Subinhibitory Concentrations of Penicillin on the Structure and Division of Staphylococci." Antimicrobial Agents and Chemotherapy 7 (June 1975): 864-870.
19. Lorian, V., and Atkinson, B. "Effects of Subinhibitory Concentrations of Antibiotics on Cross Walls of Cocci." Antimicrobial Agents and Chemotherapy 9 (June 1976): 1043-1055.

20. Murray, R.G.E.; Francombe, W.H. and Mayall, B.H. "The Effects of Penicillin on the Structure of Staphylococcal Cell Walls." Canadian Journal of Microbiology 5 (1959): 641-648.
21. Greenwood, D., and Grady, F.L. "Scanning Electron Microscopy of *Staphylococcus aureus* Exposed to some Common Anti-staphylococcal Agents." The Journal of General Microbiology 70 (April 1972): 263-270.
22. Hash, J.H., and Davis, M.C. "Electron Microscopy of *Staphylococcus aureus* treated with tetracycline." Science 138 (November 1962): 828-829.
23. Koike, M.; Icida, K; Nekashima, K., and Tokunaga, J. "Small Cell Formation of *Staphylococcus aureus* by Inhibitory Concentration of Nitrofurantoin Derivatives." The Journal of Bacteriology 120 (October 1974): 524-526.
24. Prior, R.B., and Warner, J.F. "Morphological Alteration of *Pseudomonas aeruginosa* by Ticarcillin: A Scanning Electron Microscopic Study." Antimicrobial Agents and Chemotherapy 6 (December 1974): 741-746.
25. Nordstorm, K., and Sykes, R.B. "Effects of Sublethal Concentration of Benzylpenicillin on *Pseudomonas aeruginosa*." Antimicrobial Agents and Chemotherapy 6 (December 1974): 741-746.

26. Ellis, L.F.; Herron, D.K.; Preston, D.A.; Simmons, L.K., and Schlegel, R.A. "Evaluation of Antibiotic Efficiency Using Electron Microscopy: Morphological Effects of Guanylureido Cephalosporin, Chlorobenzoylureido Cephalosporin, BL-P 1654, and Carbenicillin on *Pseudomonas aeruginosa*." Antimicrobial Agents and Chemotherapy 9 (February 1976): 334-342.
27. Buchanan, R.E., and Gibbons, N.E. Bergey's Manual of Determinative Bacteriology. 8th ed. Baltimore: William and Wilkin Co., 1974.
28. Salle, A.J. Fundamental Principles of Bacteriology. 7th ed. New Delhi: TATA McGraw-Hill Publishing Co., 1974.
29. Brock, T.D., and Brock, K.M. Basic Microbiology with Application. Englewood Cliffs, N.J.: Prentice-Hall, 1973.
30. Burrow, W. Textbook of Microbiology. 19th ed. Philadelphia: W.B. Saunders Co., 1968.
31. Lyles, S.T. Biology of Microorganism. Saint Louis: C.V. Mosby Co., 1969.
32. Davis, B.D.; Dulbecco, R.; Eisen, H.N.; Ginsberg, H.S., and Wood, W.B. Microbiology. 2d. ed. Hagerstown, Maryland: Harper and Row Publisher, 1973.
33. AMA Department of Drugs. AMA Drug Evaluations. 3d ed. Littleton, Mass.: PSG Publishing Co., 1977.

34. Franklin, T.J., and Snow, G.A. Biochemistry of Antimicrobial Action. 2d ed. London: Chapman and Hall, 1975.
35. Hoover, J.R.E., and Nash, C.H. " β -Lactam Antibiotic." Encyclopedia of Chemical Technology 2 (1978): 871-888.
36. Moellering, R.C., Jr. "Mechanism of Action of Antimicrobial Agents." Clinical Obstetric Gynecology 22 (June 1979): 277-283.
37. Blumberg, P.M., and Strominger, J.L. "Interaction of Penicillin with the Bacterial Cell: Penicillin-binding Proteins and Penicillin-sensitive Enzymes." Bacteriological Reviews 38 (September 1974): 291-335.
38. Park, J.T.; Edward, J.R. and Wise, E.M. "In Vivo Studies on the Uptake and Binding of β -Lactam Antibiotics in Relation to Inhibition of Wall Synthesis and Cell Death." Annals of The New York Academy of Sciences 235 (May 1974): 300-310.
39. Weinstein, M.J.; Leudemann, G.M.; Oden, E.M.; Wagman, G.H.; Rosselet, J.P.; Marquez, J.A.; Coniglio, C.T.; Charney, W.; Herzog, H.L., and Black, J. "Gentamicin, a New Antibiotic Complex from *Micromonospora*." Journal of Medicinal Chemistry 6 (July 1964): 463-464.
40. Weinstein, M.J.; Luedemann, G.M.; Oden, E.M., and Wagman, G.H. "Gentamicin, A New Broad Spectrum Antibiotic Complex." In Antimicrobial Agents and Chemotherapy-1963. pp. 1-7. Edited by Sylvester, J.C. Ann Arbor, Michigan:

American Society for Microbiology, 1964.

41. Rosselot, J.P.; Marquez, J.; Meseck, E.; Murawski, A.; Hamdan, A.; Joyner, C.; Schmidt, R.; Migliore, D., and Herzog, H.L. "Isolation, Purification, and Characterization of Gentamicin." In Antimicrobial Agents and Chemotherapy-1963, pp. 14-16. Edited by Sylvester, J.C. Ann Arbor, Michigan: American Society for Microbiology, 1964.
42. Goodman, L.S., and Gilman, A. The Pharmacological Basis of Therapeutics. 5th ed. New York: Macmillan Publishing Co., 1975.
43. Garrod, L.P.; Lambert, H.R. and Grady, O.F. Antibiotic and Chemotherapy. 4th ed. Edinburgh and London: Churchill Livingstone, 1973.
44. Daniels, P.J.L. "Aminoglycosides" Encyclopedia of Chemical Technology 2 (1978): 835-836.
45. Neu, H.C. "A Symposium on the Tetracyclines: A Major Appraisal." Bulletin of The New York Academy of Medicine 54 (February 1978): 143.
46. Weisblum, B., and Davis, J. "Antibiotic Inhibitor of the Bacterial Ribosome." Bacteriological Reviews 32 (December 1968): 493-528.
47. Hash, J.H. "Antibiotic Mechanisms." Annual Review of Pharmacology 12 (1972): 35-56.

48. Yong, L.S. "The Aminoglycosides." Journal of Surgical Practice (March/April 1978): 22-28.
49. Lillie, R.D. Conn's Biological Stains. 9th ed. Baltimore: William and Wilkin Co., 1977.
50. Bloom, W., and Fawcett, D.W. A Textbook of Histology. 9th ed. London: W.B. Saunders Co., 1970.
51. Culling, C.F.A. Handbook of Histopathological and Histochemical Technique. 3d ed. London: Butterworth and Co., 1974.
52. Mercer, E.H., and Birreck, M.S.C. Electron Microscopy: A Handbook for Biologist. 2d ed. Oxford: Blackwell Scientific Publication, 1966.
53. Short, J.A., and Walker, P.D. "Techniques for Transmission Electron Microscopy." In Microbial Ultrastructure: The Use of the Electron Microscope, pp. 1-3. Edited by Fuller, R., and Love-lock, D.W. London and New York: Academic Press, 1976.
54. Kay, D.H. Technique for Electron Microscopy. 2d ed. Philadelphia: F.A. Davis Co., 1967.
55. Ericsson, H.M., and Sherris, J.C. "Antibiotic Sensitivity Testing. Report of an International Collaborative Study." Acta Pathologica et Microbiologica Section B Supplement 217 (1971): 65-67.
56. Lennette, E.H.; Spaulding, E.H. and Truant, J.P. Manual of Clinical Microbiology. 2d ed. Washington, D.C.: American Society of Microbiology, 1974.

57. The United States Pharmacopeia. 19th revision. Rockville, Md.: United States Pharmacopeial Convention, 1975.
58. Spooner, D.F., and Sykes, G. "Laboratory Assessment of Antibacterial Activity." In Methods in Microbiology, pp. 228-229. Edited by Norris, J.R., and Ribbon, D.W. London and New York: Academic Press, 7B 1972.
59. Salton, M.R. "The Relationship Between the Nature of the Cell Wall and the Gram Stain." The Journal of General Microbiology 30 (February 1963): 223-235.
60. Burdett, I.D.J., and Murray, R.G.E. "Septum Formation in *Escherichia coli*: Characterization of Septal Structure and the Effects of Antibiotics on Cell division." Journal of Bacteriology 119 (July 1974): 303-324.

VITA

Name Miss Nongluksna Sriubolmas

Education Bachelor of Science in Pharmacy in 1974, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand.

Position Hospital pharmacist in the Department of Pharmacy, Somdej Chaopraya Hospital, Bangkok, Thailand.

