บรรณานุกรม

- จินดารัตน์ นิติวัฒนพงษ์. 2522. การศึกษาจุลชีววิทยาของอาหารหมักพื้นเมือง ไตปลา และปลาแป้ง แดง. วิทยานิพนธ์ปริญญาโท. กรุงเทพฯ : มหาวิทยาลัยเกษตรศาสตร์.
- ธารารัตน์ ศุภศิริ. 2542. PROBIOTIC : แบคทีเรียเพื่อสุขภาพ. วารสารวิทยาศาสตร์. 53 (6) : 357-360.
- นาถสุดา วิศววงศ์. 2522. <mark>การศึกษาจุลชีววิทยาของอาหารหมักพื้นเมือง ปลาเจ่า ปลาส้ม และ</mark> สัมฟัก. วิทยานิพนธ์ปริญญาโท. กรุงเทพฯ : มหาวิทยาลัยเกษตรศาสตร์.
- นภา โล่ทอง. 2534. **กล้าเชื้ออาหารหมักและเทคโนโลยีการผลิต.** กรุงเทพฯ : มหาวิทยาลัยเกษตรศาสตร์.
- มัทนา แสงจินดาวงษ์. 2545. **ผลิตภัณฑ์ประมงไทย.** กรุงเทพฯ : มหาวิทยาลัยเกษตรศาสตร์.
- สมบูรณ์ ธนาศุภวัฒน์. 2544. เทคนิคการเก็บรักษาจุลินทรีย์. กรุงเทพฯ : จุฬาลงกรณ์วิทยาลัย.
- สุรินทร์ ปียะโชคณากุล. 2545. <mark>จีโนมและเครื่องหมายดีเอ็นเอ ปฏิบัติการอาร์เอพีดีและเอเอฟแอลพี.</mark> กรุงเทพฯ : มหาวิทยาลัยเกษตรศาสตร์.
- อดิสร เสวตวิวัฒน์. 2542. วิ<mark>ธีการเบื้องต้นในการตรวจสอบเชื้อในกลุ่มแบคทีเรียกรดแลคติกที่ผลิต</mark> สารยับยั้ง (แบคเทอริโอซิน). กรุงเทพฯ : สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหาร ลาดกระบัง.
- อรนุช อุตรภิชาติ. 2530. การคัดเลือกแบคทีเรียแลคติกซึ่งสามารถยับยั้งการเจริญของเชื้อ ซาลโมเนลลาและผลิตกล้าเชื้อผงเพื่อใช้หมักแหนม. กรุงเทพฯ : วิทยานิพนธ์ปริญญาโท. มหาวิทยาลัยเกษตรศาสตร์.
- Abadias, M., Benabarre, A., Teixidó, N., Usall, J. and Viñas, I. 2001. "Effect of freeze-drying and protectants on viability of the biocontrol yeast *Candida sake*." International Journal of Food Microbiology. 65 : 173-182.
- Abdel-Bar, N. M. and Harris, N. D. 1984. "Psychrotrophic bacteria in associative cultures and in refrigerated food." Journal of Food Protection. 47 (1): 61-64.
- Ammor, S., Dufour, E., Zagorec, M. and Chaillou, S. 2005. "Characterization and selection of *Lactobacillus sakei* strains isolated from traditional dry sausage for their potential use as starter cultures." Food Microbiology. 22 : 529-538.
- Amster, H. and Jost, R. 1980. "Antibacterial activity of skim milk fermented with lactic acid bacteria." Dairy Science Abstracts. 42 : 8164.

- Atkinson. D. F. 1969. Limitation of metabolic concentration and the conservation of solvent capacity in the living cell. In Horecker, B. I. and Stadtman. E. R. (eds.). Current Topics in Cellular Regulation. NewYork : Academic Press, Inc.
- Baumann, D. P. and Reinbold, G. W. 1966. "Freezing of lactic cultures." Journal of Dairy Science. 49 : 259-264.
- Béal, C., Fonseca, F. and Corrieu, G. 2001. "Resistance to freezing and frozen storage of *Streptococcus thermophilus* is related to membrane fatty acid composition." Journal of Dairy Science. 84 : 2347-2356.
- Bendas, G., Wilhelm, F., Richter, W. and Nuhn, P. 1996. "Synthetic glycolypids as membranebound cryoprotectants in the freeze-drying process of liposomes." European Journal of Pharmacological Science. 4 : 211-222.
- Berthier, F. and Ehrlich, S. D. 1999. "Genetic diversity within *Lactobacillus sakei* and design of PCR primers for it detection using randomly amplified polymorphic DNA."
 International Journal of Systematic Bacteriology. 49 : 997-1007.
- Breierová, E. 1994. "Cryoprotection of psychrophilic yeast species by the use of adaptive media." **Cryobiology.** 15 : 191-197.
- Bremer, E. and Krämer, R. 2000. Coping with osmotic challenges: osmoregulationthrough accumulation and release of compatible solutes in bacteria. In Storz, G. and Hengge-Aronis, R. (eds.). Bacterial Stress Responses. Washington, DC : American socity for microbiology.
- Bridge P. D. and Sneath. P. H. A. 1982. "Streptococcus gallinum sp. and Streptococcus oralis sp." International Journal of Systemic Bacteriology. 32 : 410-415.
- Broadbent, J. R. and Lin, C. 1999. "Effect of heat shock or cold shock treatment on the resistance of *Lactococcus lactis* to freezing and lyophilysation." **Cryobiology.** 39 : 88-102.
- Brown, A. D. 1990. Microbial water stress physiology. In Jhon W. and Sons, C. (eds.). Principles and Perspectives. England : Chichester.
- Bucio, A., Hartemink, R., Schrama, J. W., Verreth, J. and Rombouts, F. M. 2006. "Presence of lactobacilli in the intestinal content of freshwater fish from a river and from a farm with a recirculation system." Food Microbiology. 23 : 476-482.
- Buckenhuskes, H. K. 1993. "Selection criteria for lactic acid bacteria to be used as starter cultures for various food commodities." **FEMS Microbiology Review.** 12 : 253-271.

- Budde, B. B., Hornæk, T., Jacobsen, T., Barkholt, V. and Koch, A. G. 2003. "Leuconostoc carnosum 4010 has the potential for use as a protective culture for vacuum-packed meats: culture isolation bacteriocin identification and meat application experiments." International Journal of Food Microbiology. 83 : 171-184.
- Bunning, V. K., Crawford R. G., Tierney, J. T. and Peller, J. T. 1990. "Thermotolerance of Listeria monocytogenes and Salmonella typhimurium after sublethal heat shock." Applied and Environmental Microbiology. 56 : 3216-3219.
- Campos, C. A., Rodríguez, O., Calo-Mata, P., Prado, M. and Barros-Velázquez, J. 2006.
 "Preliminary characterization of bacteriocin from *Lactococcus lactis, Enterococcus faecium* and *Enterococcus mundtii* strain isolated from turbot (*Psetta maxima*)."
 Food Research International. 39 : 356-364.
- Carpenter, J. F. and Crowe, J. H. 1989. "An infrared spectroscopic study of the interactions of carbohydrates with dried proteins." **Biochemistry.** 28 : 3916-3922.
- Caric', M. 1994. Milk powder production of specific products. In Hui, Y. H. Food Science and Technology. (ed.). USA : VCH Publishers. Inc.
- Carvalho, A. S., Silva, J., Ho, P., Teixeira, P., Malcata, F. X. and Gibbs, P. 2004. "Relevant factors for the preparation of freeze-dried lactic acid bacteria." International Dairy Journal. 14 : 835-847.
- Carvalho, A. S., Silva, J., Ho, P., Teixeira, P., Malcata, F. X. and Gibbs, P. 2003. "Effect of various factors thermotolerance and survival during storage of freeze-dried *Lactobacillus delbrueckii* spp. *bulgaricus*." Journal of Food Science. 68 (8) : 2538-2541.
- Castro, H. P., Teixeira, P. M. and Kirby, R. 1996. "Chang in the membrane of *Lactobacillus bulgaricus* during storage following freeze-drying." **Biotechnology Letters.** 18 : 99-104.
- Champagne, C. P., Gardner, N., Brochu, E. and Beaulieu, Y. 1991. "The freeze-drying of lactic acid bacteria." A review Canadian Institute of Science and Technology Journal. 24 : 118-128.
- Chavarri, F. J., Paz, M. D. and Neez, M. M. 1988. "Cryoprotective agents for frozen concentrated starter form non-bitter *Streptococcus lactis* strains" **Biotechnology Letters**. 10 : 11-16.
- Conway, P. L., Goruach, S. L. and Goldin, B. R. 1987. "Survival of lactic acid bacteria in the human stomach and adhesion to intestinal cells." Journal of Dairy Science. 70 : 1-12.

- Cook, G. M. and Russ, J. B. 1994. "The effect of extracellular pH and lactic acid on pH homeostasis in *Lactococcus lactis* and *Streptococcus bovis*." Current Microbiology. 28 : 165-168.
- Coutinho, C. E. B., Felix, D., Panek, A. D. 1988 "Trehalose as cryoprotectant for preservation of yeast strains." Journal of Biotechnology. 7 : 23-32.
- Cowley, G., 1988. The Microbe that ate Salmonella. Newsweek. August 22. pp. 56.
- Cronan, J. E. and Rock, C. O. 1987. Biosynthesis of membrane lipids. In Neidhardt, F. C. , Ingraham, J. L., Low, K. B., Magasanik, B., Schaechter, M. and Umbarger, H. E. (eds.). *Escherichia coli* and *Salmonella typhimurium*: Cellular and Molecular Biology. Washington, DC : American Society for Microbiology.
- Crowe, J. H., Hoekstra, F. A., Nguyen, K. H. N. and Crowe, L. M. 1996. "Is vitrification involved in depression of the phase transition temperature in dry phospholipids." Biochemical and Biophysical Research Communications Acta. 1280 : 187-196.
- Csonka, L. N. 1989. "Physiological and genetic responses of bacteria to osmotic stress." **Department of Biological Science.** 53 : 121-147.
- Csonka, L. M. and Epstein, W. 1996. Osmoregulation. In Neidhardt, F. C. (ed.). *Escherichia coli* and Salmonella cellular and Molecular Biology. 2nd Washington, DC : ASM Press.
- Daeschel, M. A. 1989. "Antibacterial substances from lactic acid bacteria for use as food preservatives." Food Technology. 43 : 164-167.
- Daily, W. A. and Higgens, C. E. 1973. "Preservation and storage of microorganisms in the gas phase of liquid nitrogen." **Cryobiology.** 10 : 364-367.
- Dakin, J. C. and Day, P. M. 1958. "Yeasts causing spoilage in acetic acid preserves." Journal of Applied Bacteriology. 21 : 94-98.
- Davenport, H. W. 1977. Physiology of the digestive tract. Chicaco : Year Book Medical.
- Dave, R. I. and Shah, N. P. 1998. "Ingredient supplementation effects on viability of probiotic bacteria in yougurt." Journal of Dairy Science. 81 : 2804-2816.
- De Antoni, G. L., Perez, P., Abraham, A., Anon, M. C. 1989. "Trehalose a cryoprotectant for *Lactobacillus bulgaricus*." Cryobiology. 26 : 149-153.

- Denilova, M. V., Nadirona, T. M. and Estseva, T. V. 1981. "Dependence of the viability of lyophilized bacteria stored for long periodes on the quantity of residual humidity."
 Microbiology Abstract Section A Industrial and Applied Microbiology. 16 : 884-916.
- De Mendoza, D. and Cronan, J. E. 1983. "Thermal regulation of membrane lipid fluidity in bacteria." Trends Biochemical Science. 8 : 49-52.
- Derzelle, S., Hallet, B., Ferain, T. Delcour. J. and Hols, P. 2003. "Improved adaptation to coldshock, stationary-phase and freezing stresses in *Lactobacillus plantarum* overproducing cold-shock proteins." Applied and Environmental Microbiology. 69 : 4285-4290.
- de Quervain, M. R. 1975. Crystallization of water. In Freeze-Drying and Advanced Food Technology. New York : Academic Press.
- De Urraza, P. G. and De Antoni, G. L. 1997. "Induced cryotolerance of *Lactobacillus delbrueckii* subsp. *bulgaricus* LBB by preincubation at suboptimal temperatures with a fermentable sugar." Cryobiology. 35 : 159-164.
- De Vuyst, L. and Vandermme, E. J. 1994. Antimicrobial potential of lactic acid bacteria. In De Vuys. L. and Vandarmme E. J. (eds.). Bacteriocin of Lactic Acid Bacteria. New York : Blackie Academic and Professional.
- De Vuyst, L. and Vandermme, E. J. 1994. Lactic acid bacteria and bacteriocins their practical importance. In De Vuyst, L. and Vandermme, E. J. (eds.). Bacteriocins of Lactic Acid Bacteria: Microbiology Genetics and Applications . San Diego : Acadamic Press, Inc.
- Diniz-Mendes, L., Bernardes, E., de Araujo, P. S., Panek, A. D. and Paschoalin, V. M. F. 1999.
 "Preservation of frozen yeast cells by trehalose." Biotechnology and Bioengineering. 65 : 572-578.
- Doebbler, G. F. 1966. "Cryoprotective compounds: review and discussion of structure and function." Cryobiology. 3 : 2-11.
- Doods, K. and Collins-Thomson, D. 1984. "Incidence of nitrite-depleting lactic acid bacteria in used meat starter culture." Journal of Food Proteins. 47 : 7-10.
- Erkkila, S. and Petaja, E. 2000. "Screening of commercial meat starter cultures at low pH and in the presence of bile salts for potential probiotic use." **Meat Science.** 55 : 297-300.

- Fernandez Murga, M. L., Cabrera, G. M., Font De Valdez, G., Disalvo, A. and Seldez, A. M. 2000. "Influence of growth temperature on crytolerance and lipid composition of *Lactobacillus acidophilus*." Journal of Applied Microbiology. 88 : 342-348.
- Fleming, H. P., Mcfeeters, R. F. and Daesohel, M. A. 1985. The Lactobacilli, Pediococcus and Leuconostoc : vegetable products. In Gilland, S. E. (ed.). Bacterial Starter Cultures for Foods. Boca Raton, Florida : CRC press, Inc.
- Fonseca, F., Béal, C. and Corrieu, G. 2001. "Operating conditions that affect the resistance of lactic acid bacteria to freezing and frozen storage." **Cryobiology.** 43 : 189-198.
- Font de Valdez, G., de Giori, G., de Ruiz Holgado, A. P. and Oliver, G. 1983. "Protective effect of adonitol on lactic acid bacteria subjected to freeze-drying." Journal of Applied Bacteriology. 66 : 365-378.
- Fonseca, A. H., Crowe. J. H., Nguyen, K. H. N. and Crowe, L. M. 1996. "Is vitrification involved in depression of the phase transition temperature in dry phospholipids." Biochemical and Biophysical Research Communications. 1280 : 187-196.
- Fuller, R. 1989. "Probiotic in manozen an animals." Journal of Applied Bacteriology. 66 : 365-378.
- Fuller, R. 1992. Probiotic-The Scientific Basis. London : Champman and Hall.
- Galinski, E. A. and Trüper, H. G. 1994. "Microbial behaviour in salt-stressed ecosystems." FEMS Microbiology Review. 15 : 95-108.
- Gibson, C. A., Landerkin, G. B., Morse. P. M. 1966 "Effect of additives on survival of lactic streptococci in frozen storage." Applied Microbiology. 14 : 665-669.
- Gelman, A., Drabkin, V. and Glatman, L. 2001. "Evalueation of lactic acid bacteria isolated from a lightly preserved fish products as starter culture for new fish-based food product." **Innovative Food Science and Emerging Technologies.** 1 : 219-226.
- German, B., Schiffrin, E. J., Reniero, R., Mollet, B., Pfeiffer, A. and Neeser, J. R. 1999. "The development of functional food :Lessons from the gut." **TIBTECH.** 17 : 492-499.
- Ghalfi, H., Allaoui, A., Destain, J., Benkerroum, N. and Thonart, P. 2006. "Bacteriocin activity by *Lactobacillus curvatus* CWBI-B28 to inactivate *Listeria monocytogenes* in coldsmoked salmon during 4 °C storage." Journal of Food Protection. 5 : 1066-1071.
- Gilland, S. E., Staley, T. E. and Bush, L. J. 1984. "Importance of bile tolerance of *Lactobacillus acidophilus* used as a dietary adjunct." Journal of Dairy Science. 67 : 3045-3051.

- Gilland, S. E. 1985. Lactic Acid Bacteria as Starter Cultures for Foods. Boca Raton, Florida : CRC Press Inc.
- Gilland, S. E. and Speck, M. L. 1977. "Antagonistic action of *Lactobacillus acidophilus* toward intestinal and food-borne pathogenic in associative cultures." Journal of Food Protection. 40 : 820-823.
- Glaasker, E., Konings, W. N. et al. 1996. "Glycine betaine fluxes in Lactobacillus plantarum during osmostasis and hyper-osmotic and hypo-osmotic shock." Journal of Biological Chemistry. 27 : 10060-10065.
- Gölker, C. 1993. Final recovery steps: Lyophilisation, spray-drying. In Rehm, H. J., Reed, G.
 And Reed, G. and Stephanopoulos, G. (eds.). Biotechnology. 2nd Germany : VCH 3.
 Weinheim.
- Gomes, A. M., Malcata, F. X. and Klaver, F. A. 1998. "Growth enhancement of *Bifidobacterium lactis* and *Lactobacillus acidophilus* by milk hydrolyzates." Journal of Dairy Science. 81 : 2817-2825.
- Gram, L. and Huss, H. H. 1996. "Microbiological spoilage of fish and fish products." International Journal of Food Microbiology. 33 : 121-137.
- Gram, L., Trolle, G. and Huss, H. H. 1987. "Detection of specific spoilage bacteria from fish stored at low (0 °C) and high (20 °C) temperatures." International Journal of Food Microbiology. 4 : 65-72.
- Gram, L., Oundo, J. and Bon, J. 1989. "Storage life of Nile perch (*Lates niloticus*) dependent on storage temperature and initial bacterial load." **Tropical Science.** 29 : 221-236.
- Gram, L., Wedell-Neergaard, C. and Huss, H. H. 1990. "The bacteriology of fresh and spoiling Lake Victorian Nile perch (*Lates niloticus*)." International Journal of Food Microbiology. 10 : 303-316.
- Graumann, P., Wendrich, T. M., Weber, M. H., Schroder, K. and Marahiel, M. A. 1997. "A family of cold shock proteins in *Bacillus subtilis* is essential for cellular growth and for efficient protein synthesis at optimal and low temperatures." Molecular Microbiology. 25 : 741-756.
- Gross, M. 1999. "La parade cellulaire aux variation thermiques." La Recherche. 317: 82-86.
- Haenel, H. and Bendig, J. 1975. "Intestinal flora in health and disease." World Food Programme Journal. 1 : 21-64.

- Hamdan, I. Y. and Mikolajoik, E. N. 1975. "Acidolin: an antibiotic produced by *Lactobacillus acidophilus*." Journal of Antibiotics. 27 (8) : 631-636.
- Hebard, C. E., Flick, G. J. J. and Martin, R. E. 1982. Occurrence and significance of trimethylamine oxide and its derivates in fish and shellfish. In Hebard C. E. (ed.).
 Chemistry and Biochemistry of Marine Food Products. Westport, Connecticut : AVI Publishing.
- Helander, I. M., von Wright, A. and Mattila-Sandholm, T. M. 1997. "Potential of lactic acid bacteria and novel antimicrobials against gram-negative bacteria." Trends in Food Science and Technology. 8 :146-150.
- Hirsch, A. 1951. "Growth and nisin production of a strain of *Streptococcus lactis*." Journal of General Microbiology. 5 : 208-221.
- Honer, C. 1995. Culture shift. In Dairy Field. 178 : 54-58.
- Hubálek, Z. 2003. "Protectant used in the cryopreservation of microorganisms." **Cryobiology.** 46 : 205-299.
- Huss. H. H. and Larsen. A. 1979. The post-mortem changes in the oxidation-reduction potential (Eh) of fish muscle and internal organs. In Sobolenska-Ceronik, K., Ceronik, E. and Zaleski, S. (eds.). Food as Ecological Environment for Pathogenic and Index Microorganisms. Warsaw, Poland : Ars Polona.
- Hutkins, R. W., Ellefson, W. L. et al. 1987. "Betaine transport imparts osmotolerance on a strain of *Lactobacillus acidophilus*." Applied and Environmental Microbiology. 53 : 2275-2281.
- Ishibashi, N. and Shimamura, S. 1993. "Bifidobacteria: research and development in Japan." Food Technology. pp. 126-135.
- Ingraham, J. L. and Marr. A. G. 1996. Effect of temperature, pressure, pH and osmotic stress on growth. In Neidnardt, F. C. (ed.). *Escherichia coli* and *Salmonella* : Cellular and Molecular Biology. Washington, DC : ASM Press.
- Ivanova, L. and Dzhevizov, S. 1985. "Some aspects of freeze-drying preservation of bacterial strain used as starters in manufacture of meat product." Canadian Institute of Food Science and Technology Journal. 18 (8) : 155-159.

- Jeppesen, V. F. and Huss, H. H. 1993. "Characteristics and antagonistic activity of lactic acid bacteria isolated from chilled fish product." International Journal of Food Microbiology. 18 : 305-320.
- Johannsen, E., 1972. "Malt extract as protective medium for lactic acid bacteria in cryopreservation." **The Journal of Applied Bacteriology.** 35 : 423-429.
- Johnson, J. A. C. and Etzel, M. R. 1993. Inactivation of lactic acid bacteria during spray drying. In Barbosa-Canovas, G. V. and Okos, M. R. (eds.). Food Dehydration. AECHE symposium series.
- Juneja, V. K. and Novak, J. S. 2003. Adaptation of foodborne pathogens to stress from exposure to physical intervention strategies. In Yousef, A. E. and Juneja, V. K. (eds.).
 Microbial Stress Adaptation and Food Safety. Florida : Boca Raton, CRC Press.
- Kandler, O. and Weiss, N. 1986. Genus Lactobacillus. In Sneath Mair, P. H. A., Sharpe, N. S. and Holt, J. G. Bergey's Manual of Systematic Bacteriology. Baltimore : Williams & Wikins.
- Kashket, E. R. 1987. "Bioenergetic of lactic acid bacteria: cytoplasmic pH and osmotolerance."FEMS Microbiology Review. 46 : 233-244.
- Kearney, L., Upton, M. and Mclonghlin, A. 1990. "Meat fermentation with immobiolized lactic acid bacteria." Applied Microbiology and Biotechnology. 33 (6) : 648-651.
- Keith, S. C. 1913. "Factors influencing the survival of bacteria at temperatures in vicinity of freezing point of water." Science. 37 : 877-879.
- Kets, E. P. W. and de Bont, J. A. M. 1994. "Protective effect of betaine on survival of *Lactobacillus plantarum* subjected to drying." FEMS Microbiology Letter. 116 : 251-256.
- Kilara, A., Shahani, K. M. and Das, N. K. 1977. "Effect of cryoprotective agents on freezedrying and storage of lactic cultures." **Dairy Science Abstracts.** 39 : 2628.
- Kim, W. S. and Dunn, N. W. 1997. "Identification of cold shock gene in lactic acid bacteria and effect of cold shock on cryotolerance." Current Microbiology. 35 : 59-63.
- Kim, W. S., Khunajakr, N. and Dunn, N. W. 1998. "Effect of cold shock on protein synthesis and on cryotolerance of cell frozen for long periods in *Lactococcus lactis*." Cryobiology. 37: 86-91.

- Kim, W. S., Ren, J. and Dunn, N. W. 1999. "Differentiation of *Lactococcus lactis* subspecies *lactis* and *cremoris* strains by their adaptive response to stresses." FEMS Microbiology Letter. 171 : 57-65.
- Kono, S., Kuwano, K. and Saga, N. 1998. "Cryopreservation of *Eisenia bicyclis* (Laminariales, Phaeophyta) in liquid nitrogen." **The Journal of Marine Biotechnology.** 6 : 220-223.
- Kurmann, J. A. 1988. Starters for fermented milks. In Fermented Milks-Science and Technology. Brussels : IDF Bulletin.
- Lee, K. 2004. "Cold Shock response in *Lactococcus lactis* ssp. *diacetylactis*: a comparision of the protection generated by brief pre-treatment at less severe temperature." Process Biochemistry. 39 : 2233-2239.
- Leslie, S. B., Israeli, E., Lighthart, B., Crowe, J. H. and Crowe, L. M. 1995. "Trehalose and sucrose protect both membranes and proteins in intact bacteria during drying." Applied and Environmental Microbiology. 61 (10) : 3592-3597.
- Lilly, G. and Stillwell, S. L. 1965. "Lactic acid bacteria and human health." Annals of Tropical Medicine and Parasitology. 22 : 37-41
- Linders, L. J. M., de Jong, G. I. W., Meerdink, G. and van't Riet, K. 1997. "Carbohydrates and the dehydration inactivation of *Lactobacillus plantarum*: the role of moisture distribution and water activity." Journal of Food Engineering. 31 : 237-250.
- Liener, I. E. 1978. Nutritional value of food protein products. In Smith, A. K. and Circle, S. J. (eds.). Proteins. 2nd Soybeans Chemistry and Technology. Westport : AVI Publishers.
- Lotong, N., Sunthornandh, P., Daengsubha, W. and Utarapichat, O. 1987. "Microbial quality and safety of the traditional fermented pork II. Selection of salmonella-inhibiting lactic acid bacteria for nham fermentation annual report." Thailand ASEAN Technology Research and Development Project.
- Lou, Y. and Yousef, A. E. 1996. "Resistance of *Listeria monocytogenes* to heat after adaptation to environment stresses." Journal of Food Protection. 59 : 465-471.
- Lovelock, J. E. 1954. "The protective action of neutral solute against hemolysis by freezing and thawing." **Biochemical Journal.** 56 : 265-270.
- Luyet, B. 1969. "On the amount of water remaining amorphous in frozen aqueous solution." Biodynamica. 10 : 277-291.

- Lyhs, U., Koort, J. M. K., Lundström, H-S. and Björkroth, K. J. 2004. "Leuconostoc gelidum and Leuconostoc gasicomitatum strains dominated the lactic acid bacterium population associated with strong slime formation in an acetic-acid herring preserve." International Journal of Food Microbiology. 90 : 207-218.
- Mäyrä-Mäkinen, A. and Bigret, M. 1998. Industrial use and production of lactic acid bacteria. In Salminen, S. and von Wright, A. (eds.). Lactic Acid Bacteria: Microbiology and Functional Aspects. New York : Marcel Dekker.
- Marteau, P., Gerhardt, M. F., Myara, A., Bouvier, E., Trivin, F. and Rambaud, J. C. 1995."Metabolism of bile salts by alimentary bacteria during transit in human small intestine."Microbial Ecology. 8 : 151-157.
- Mattila-Sandholm, T., Myllärinen, P., Crittenden, R., Mogensen, G., Fondén, R. and Saarela, M. 2002. "Technological challenges for future probiotic foods." International Dairy Journal. 12 : 173-182.
- Meryman, H. T. 1968. The minimum cell volume modes of freezing injury. In Nature and International Institute of Refrigeration (IIR) (Comm.X). Washington, DC.
- Mignard, S. and Flandrois, J. P. "16S rRNA sequencing in routine bacterial identification: A 30month experiment." **Journal of Microbiological Methods.** 67 : 574-581.
- Miyajima, K. 1997. "Role of saccharides for the freeze-thawing and freeze-drying of liposomes." Advanced Drug Delivery Reviews. 24 :151-159.
- Mogensen, G. and Friis. M. 1997. "*Lactobacillus casei* 431-A strategic probiotic strain." The World of Ingredients. 1 : 41-42.
- Muir, D. D. 1992. Milk chemistry and nutritive In Early, R. (ed.). The Technology of Dairy Products. Newyork : VCH Publisher, Inc.
- Nambudiry, D. D. 1986. "Mixed culture fermentation as predominant biological phenomenon in the production of fermented fish products." **Proceeding of the Symposium on Coastal Agriculture**. 6 : 1474.
- Naghmoush, M. R., Girguis, E. S., Guirguij A. H. and Fahmi, A. H. 1979. "Effect of storage on behaviour of some freeze-dried lactic acid culture." **Dairy Science Abstracts.** 41 : 1513.
- Nash, T., Postgate, J. R. and Hunter. J. R. 1963. "Similar effects of various neutral solutes on survival of *Aerobacter aerogenes* and of red blood cells a after freezing and thawing." Nature Cell Biology. 199 : 1113.

- Nickerson, T. A. 1970. Lactose. In Webb, B. H. and Whittier, E. O. (eds.). By Products From Milk. Wesport, CT : AVI Publishing Company.
- Niinivaara, F. P., Pohja, M. S. and Komulainen, S. E. 1964. "Some aspects about using bacteria pure cultures in the manufacture of fermented sausages." Food Technology. 18 :147-153.
- Noonpakdee, W., Santivarangkna, C., Jumriangrit, P., Sonomoto, K. and Panyim, S. 2003. "Isolation of nisin-producing *Lactococcus lactis* WNC 20 strain from *nham*, a traditional Thai fermented sausage." **International Journal of Food Microbiology.** 81 : 137-145.
- Oberman, H. and Libudzisz, Z. 1998. Fermented milks. In Wood, B. J. B. (ed.). Microbiology of Fermented Foods. London : Blackie Academic and Professional.
- Oetjen, G-W. and Haseley, P. 2004. Freeze-drying. Federal Republic, Germany : WILEY-VCH Verlag Gmbh & Co. KGaA, Weinheim.
- Orla-Jensen, S. 1919. "The lactic acid bacteria. Cited by : Stiles, M. E. and Hozapfel, W. H. Lactic acid bacteria of food and their current taxonomy." International Journal of Food Microbiology. 36 : 1-29.
- Palmfeldt, J., Rådström, P. and Hahn-Hägerdal, B. 2003. "Optimisation of initial cell concentration enhances freeze-drying tolerance of *Pseudomonas chlororaphis*." Cryobiology. 47 : 21-29.
- Paludan-Müller, C., Madsen, M., Sophanodora, P., Gram, L. and Møller, P. L. 2002.
 "Fermentation and microflora of plaa-som a Thai fermented fish product prepared with different salt concentrations." International Journal of Food Microbiology. 73 : 61-70.
- Panoff, J-M., Thammavongs, B., Guéguen, M. and Boutibonnes, P. 1998. "Cold stress responses in mesophilic bacteria." Cryobiology. 36 : 75-83.
- Panoff, J-M., Corroler, D. and Thammavongs, B. 1997. "Differentiation between cold shock proteins and cold acclimation proteins in mesophilic gram-positive bacterium. *Enterococcus faecalis* JH2-2." Journal of Bacteriology. 179 (13) : 4451-4454.
- Panoff, J-M., Legrand, S., Thammavongs, B. and Boutibonnes, P. 1994. "The cold shock response in *Lactococcus lactis* subsp. *lactis*." Current Microbiology. 29 : 231-216.
- Panoff, J-M., Thammavongs, B. and Guéguen, M. 2000. "Cryoprotectants lead to phenotypic adaptation to freeze-thaw stress in *Lactobacillus delbrueckii* ssp. *bulgaricus* CIP 101027T." Cryobiology. 40 : 264-269.

- Papamanoli, E., Tzanetakis, N., Litopoulou-Tzanetaki. E. and Kotzekidou, P. 2003.
 "Characterization of lactic acid bacteria isolated from a Greek dry-fermented sausage in respect of their technological and probiotic properties." Meat Science. 65 : 859-867.
- Peppler, H. J. and Perlman, D. 1979. Lactic starter culture concencrates. **Microbial Technology.** New York : Academic Press.
- Porubcan, R. S. and Sellars, R. L. 1979. Lactic starer culture concentrates. In Peppler, H. J. and Perlman, D. (eds.). Microbial Technology. New York : Academic Press.
- Pongsak, R. and Parichat, P. 2000. "A bacteriocin produced by *Lactobacillus lactis* subsp. *lactis* isolated from Thai fermented foods." ScienceAsia. 26 : 195-200.
- Poolman, B. and Driessen, A. J. et al. 1987. "Regulation of arginine-ornithine exchange and the arginine deiminase pathway in *Streptococcus lactis*." Journal of Bacteriology. 169 (12) : 604-5597.
- Ray, B. 1996. Fundamental Food Microbiology. New York : CRC Press.
- Ray, B. and Speck, M. L. 1973. Critical Review of Clinical Laboratory Science. 4 : 161-213
- Reddy, G. V. and Shahani, K. M. 1971. "Isolation of antimicrobiotic from *Lactobacillus bulgaricus*." Journal of Dairy Science. 34 (1): 748.
- Riedel, L. 1972. Enthalpy-water content dia-gram for lean beef (also valid for other meats with fat content below 4%). In Recommendations for The Processing and Handling of Frozen Foods. 2nd International Institute of Refrig-eration (IIR). Paris.
- Ringø, E. and Gatesoupe, F-J. 1998. "Lactic acid bacteria in fish: a review." Aquaculture. 160 : 177-203.
- Ringø, E. 1993. "Does chromic oxide (Cr₂O₃) affect faecal lipid and intestinal bacterial flora in arctic charr, salvelinus alinus." Aquaculture and Fisheries Management. 24 : 767-776.
- Robinson, R. K., Batt, C. A. and Patel, P. H. 2002. Encyclopedia of Food Microbiology. San Diego : Academic Prees. 3 : 1570-1591.
- Russell, N. J. 1997. "Psychrophilic bacteria molecular adaptations of membrane lipids." Comparative Biochemistry and Physiology. Part A: Physiology. 118 : 489-493.
- Russell, N. J., Evans, R. I., Ter Steeg, P. F. Hellemons, J., Verheul A. and Abee, T. 1995.
 "Membranes as a target for stress adaptation." International Journal of Food Microbiology. 28 : 255- 261.

Russell, N. J. 1990. Cold adaptation of microorganisms. London : Phil. Trans. R. Soc.

- Sander, J. W., Venema, G. *et al.* 1999. "Environmental stress responses in *Lactococcus lactis*." **FEMS Microbial Review.** 23 : 483-501.
- Saarela, M., Mogensen, G., Fondén, R., Mätto, J. and Mattila-Sandholm, T. 2000. "Probiotic bacteria: safety, functional and technological properties." Journal of Biotechnology. 84 : 197-215.
- Shama, N. and Gandhi, D. N. 1982. "Preparation of acidophilin I selection of the starter culture." Dairy Science Abstracts. 44 (1) : 56.
- Sian, N. K. and Ishak, S. 1990. "Effect of pH on yield, chemical composition and boiling resistance of soybean protein-lipid film." Cereal Food World. 35 : 748-752.
- Smittle, R. B., Gilliland, S. E., Speck, M. L. and Walter , W. M. J. 1974. "Relationship of cellular fatty acid composition to survival of *Lactobacillus bulgalicus* in liquid nitrogen." Applied Microbiology. 27 : 738-743.
- Sobrino, O. J., Rodriguez, J. M., Moreira, W. L., Fernandez, M. F., Sanz, B. and Hernandez, P. E. 1991. "Antibacterial activity of *Lactobacillus sake* isolated from dry fermented sausages." International Journal of Food Microbiology. 13 : 1-10.
- Souzu, H. 1992. Freeze-drying of microorganisms. In Lederberg, J. (ed.). Encyclopedia of Microbiology. San Diego : Academic Press.
- Speck, M. L., Cowman, R. A. 1970. Preservation of Lactic Streptococci at low temperatures. In Iizuka, H. and Hasegawa, T. (eds.). Culture Collections of Microorganisms. Tokyo : University. Press.
- Strachan, T. 1992. The human genome. Oxford : Bios Scientific Publisher. p. 160.
- Suma, K., Misra, M. and Varadaraj, M. 1998. "Plantacin LP84 a broad spectrum heat-stable bacteriocin of *Lactobacillus plantarum* NCIM 2084 produced in a simple glucose broth medium." International Journal of Food Micrology. 40 : 17-25.
- Svensson, U. 1999. Industrial perspectives. In Tannock, G. W. (ed.). Probiotics: A Critical Review. Wymondham : Horizon Scientific Press.
- Takano, M., Sado, J. I., Ogawa, T. and Terui, G. 1973 "Freezing and freeze-drying of Spirulina platensis." Cryobiology. 10 : 440-444.

- Tanaka, N., Traisman, E., Lee, M. H. I., Cassens, R. G. and Foster, E. M. 1980. "Inhibition of botulinum toxin formation in bacon by acid development." Journal of Food Protection. 43 : 450-452.
- Thapa, N., Pal, J. and Tamang, J. P. 2006. "Phenotypic identification and technological properties of lactic acid bacteria isolated from traditionally processed fish products of Eastern Himalayas." International Journal of Food Microbiology. 107 : 33-38.
- Tichaczek, P. S., Pohle, S. B., Vogel, R. F. and Hammes, W. P. 1995 "Dry sausages fermented with bacteriocin producers." **Trend in Food Science & Technology.** 6 (9) : 317.
- Tuomola, E., Crittenden, R., Playne, M., Isolauri, E. and Salminen, S. 2001. "Quality assurance criteria for probiotic bacteria." American Journal of Clinical Nutrition. 73 : 393-398.
- Uguen, P. Hamelin, J. et al. 1999. "Influence of osmolarity and the presence of an osmoprotectant on Lactococcus lactis growth and bacteriocin production." Applied and Environmental Microbiology. 65 : 291- 293.
- Urraza, P. D. and Antoni, G. D. 1997. "Induced cryotolerance of *Lactobacillus delbrueckii* subsp. *bulgaricus* LBB preincubation at suboptimal temperatures with a fermentable sugar." Cryobiology. 35 : 159-164.
- Vandamme, P., Plot, B., Gillis, M., De Vos, P., Kersters, K. and Swing, J. 1996. "Polyphasic taxonomy a concensus approach to bacterial systematics." Microbiology Review. 60 : 407-438.
- Vandenbergh, P. A. 1993. "Lactic acid bacteria their metabolic products and interference with microbial growth." **FEMS Microbial Review.** 12 : 37-221.
- van der Heide, T. and Poolman, B. 2000. "Glycine betaine transport in *Lactococcus lactis* is osmotically regutated at the level of expression and translocation activity." **Journal of Bacteriology.** 182 : 203-206.
- Vermeiren, L., Devlieghere, F. and Debevere, J. 2004. "Evaluation of meat born lactic acid bacteria as protective cultures for the biopreservation of cooked meat products." International Journal of Food Microbiology. 96 : 149-164.
- Vinderola, C. G. and Reinheimer, J. A. 2003. "Lactic acid starter and probiotic bacteria: a comparative in vitro study of probiotic characteristics and biological barrier resistance."
 Food Research International. 36 : 895-504.

- Vincent, J. G., Robert, C. V. and Richard, F. R. 1957. "Antibactetial activity associated with *Lactobacillus acidophilus*." Journal of Bacteriology. 78 : 477-484.
- Walderhaug, M. O., Dosch, D. C. and Epstein, W. 1987. Potassium transport in bacteria. In Rosen B. P. and Silver, S. (eds.). Ion Transport in Prokaryotes. San Diego : Academic Press.
- Wang, Y., Corrieu, G. and Béal, C. 2005. "Fermentation pH and temperature influence the cryotolerance of *Lactobacillus acidophilus* RD758." Journal of Dairy Science. 88 : 21-19.
- Wang, G. and Doyle, M. 1998. "Survival of enterohaemorrhagic *Escherichia coli* O157:H7 in water." Journal of Food Protection. 61 (60) : 662-667.
- Wenrong, G. and Griffithss, M. W. 2000. "Survival of bifidobacteria in yogurt and simulated gastric juice following immobilization in gellan-xanthan beads." Journal of Food Microbiology. 61 : 17-25.
- Wisselink, H. W., Weusthuis, R. A., Eggink, G., Hugenholtz, J. and Grobben, G. J. 2002.
 "Mannitol production by lactic acid bacteria: A review." International Dairy Journal. 12:156-161.
- Wouters, J. A., Mailhes, M., Rombouts, F. M., De Vos, W. M., Kuipers, O. P. and Abee, T. 2000.
 "Physiological and regulatory effects of *Lactococcus lactis* MG1363." Applied and Environmental Microbiology. 66 : 3756-3763.
- Wouters, J. A., Rombouts. F. M., De Vos, W. M., Kuipers, O. P. and Abee, T. 1999. "Cold shock proteins and low-temperature response of *Streptococcus thermophilus* CNRZ302."
 Applied and Environmental Microbiology. 65 : 4436-4442.
- Yancey, P. H., Clark, M. F., Hand, S. C., Bowlus, R. D. and Somero, G. N. 1982. "Living water stress evolution of osmolyte systems." Science. 217 : 1214-1227.
- Yoo, B. and Lee. C. M. 1993. "Thermoprotective effect of sorbitol on proteins during dehydration." Journal of Agriculture and Food Chemistry. 41 : 190-192.
- Yoon, H. D., Lee, D. S., Ji, C. I. and Suh, S. B. 1997. "Studies on the utilization of wastes from fish processing characteristic of lactic acid bacteria for preparing skipjack tuna viscera silage." Journal of the Korean Fish Society. 30 : 1-7.

- Yousef, A. E. and Courtney, P. D. 2003. Basics of stress adaptation and implication in newgeneration food. In Yousef, A. E. and Juneja, V. K. (eds.). Microbial Stress Adaptation and Food Safety. Florida : CRC Press. Boca Raton.
- Zavaglia, G. A., Disalvo, A. E. and De antoni, L. G. 2000. "Fatty acid composition and freezethaw resistance in lactobaclli." **Journal of Dairy Research.** 67 : 241-247.
- Zeidler, G., Pasin, G. and King, A. 1994. Removing cholesterol from liquid egg york by carbon dioxide-supercritical. In Sim, J. S. and Nakai, S. (eds.). Egg Uses and Processing Technologies New Development. Guidford : Biddiles Inc.