

## เอกสารอ้างอิง

- กิจการ สุภมาตย์, อุษณี เอกปนิธานพงศ์, Itami, T., และจิราพร เกษรจันทร์. 2543. ระบบภูมิคุ้มกัน  
โรคงู้งกุลาดำ : เทคนิคในการศึกษาระบบภูมิคุ้มกันโรคและองค์ประกอบเลือดในกึ่ง  
กุลาดำ. ว. สงขลานครินทร์ วทท. 22 (ฉบับพิเศษ) : 570-580.
- จิราพร เรืองศรี, สุภมาตย์, อรุณรัตน์, นภค สุกระกาญจน์, สุพัตรา อรุณรัตน์, นิรุทธิ์ สุขเกษม, ธนาวุฒิ  
กล่าวเกลี้ยง, จิราพร เกษรจันทร์, และกิจการ สุภมาตย์. 2547. การแพร่กระจายของเชื้อ  
Taura syndrome virus (TSV) และ Infections Hypodermal and haematopoietic necrosis  
virus (IHHNV) ในประชากรกึ่งขาว (*Penaeus Vannamei*) และการยอมรับเชื้อในสัตว์น้ำ  
พันธุ์พื้นเมืองของไทย. ว. สงขลานครินทร์ วทท. 27 (ฉบับพิเศษ) : 215-224.
- ชลอ ลิมสุวรรณ, และพรเลิศ จันทร์รัชชกุล. 2547. อุตสาหกรรมเพาะเลี้ยงกุ้งในประเทศไทย.  
สำนักงานกรรมการวิจัยแห่งชาติ. เมจิก พับบลิชซัน. กรุงเทพฯ: 206 หน้า.
- ชุตินา ตันตินิกิตติ, มะลิ บุญยรัตผลิน และ อัทธา ไชยมงคล. 2546. การศึกษาสถานภาพการวิจัยและ  
พัฒนาอาหารสำหรับกึ่งกุลาดำ (*Penaeus monodon*). รายงานการวิจัยเสนอสำนักงาน  
พัฒนาวิทยาศาสตร์และเทคโนโลยีชีวภาพแห่งชาติ ศูนย์พันธุวิศวกรรมและเทคโนโลยีชีว  
ภาพแห่งชาติ.
- คารุณี แซ่ฮ่วย, อนันต์ ต้นสุตะพานิช และ ลีลา เรืองแป้น. 2530. *Vibrio haueveyi* สาเหตุของโรค  
แบคทีเรียเรืองแสงในลูกกุ้งแชบ๊วย ( *Penaeus merguensis* ). ว.การประมง. 40(2): 177-  
182 .
- บุญกอบ วิริยพงศ์สุธี. 2549. การประยุกต์ใช้และการติดตามโปรไบโอติกในกึ่งขาว (*Penaeus  
vannamei*). วิทยานิพนธ์มหาบัณฑิต. มหาวิทยาลัยสงขลานครินทร์. สงขลา. 80 หน้า.
- ประจวบ หล้าอุบล. 2537. สรีรวิทยาของกึ่ง. เจริญรัฐการพิมพ์ กรุงเทพฯ. หน้า 157-183.
- วิลาวัณย์ เจริญจิระตระกูล. 2536. อาหารพื้นเมือง. ใน ผลิตภัณฑ์อาหารหมักจุลินทรีย์ หน้า 37-52.  
สงขลา: ภาควิชาจุลชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยสงขลานครินทร์.
- มณฑิธร ส่งเสริม, บัญญัติ สุขงาม และประภาศิริ ศรีโสภากรณ์. 2533. การศึกษาแบคทีเรียที่เป็น  
สาเหตุของโรคเรืองแสงในกึ่งกุลาดำ. ว.ศรีนครินทร์วิโรฒวิจัยและพัฒนา. 4(1): 15-24.
- สุรินทร์ ปิยะโชคณากุล. 2547. จีโนมและเครื่องหมายดีเอ็นเอ: ปฏิบัติการอาร์เอฟดีและเอเอฟแอล  
พี. มหาวิทยาลัยเกษตรศาสตร์. มหาวิทยาลัยเกษตรศาสตร์. กรุงเทพฯ: 116 หน้า.

- Al-Harbi, A. and Naim Uddin, M. 2004. Seasonal variation in the intestinal bacterial flora of hybrid tilapia (*Oreochromis niloticus* X *Oreochromis aureus*) cultured in earthen ponds in Saudi Arabia. *Aquaculture*. 229: 37-44.
- Amann, R.I., Ludwig, W. and Schleifer, K.H. 1995. Phylogenetic identification and *in situ* detection of individual microbial cells without cultivation. *Microbiol. Rev.* 59: 143-169.
- Aquatic animal health awareness. available from [www.disease-watch.com](http://www.disease-watch.com). accessed on 20<sup>th</sup> sep 2006.
- Artz, L.A., Kempf, V.A.J. and Autenrieth, I.B. 2003. Rapid screening for *Streptococcus agalactiae* in vaginal specimens of pregnant women by fluorescent *in situ* hybridization. *J. Clinical Microbiology* 41: 2170-2173.
- Axelsson, L.T. 1993. Lactic acid Bacteria classification and physiology. In: Salminen, S. and von Wright, A. (eds.). *Lactic Acid Bacteria*. pp. 1-64. New York: Marcel Dekker.
- Behr, T., Koob C., Schedl M., Mehlen A., Meier H., Knopp D., Frahm E., Obst U., Schleifer K., Niessner R. and Ludwig W. 2000. A nested array of rRNA targeted probes for the detection and identification of enterococci by reverse hybridization. *Syst. Appl. Microbiol.* 23: 563-572.
- Bioinformatic tool. available from [www.ncbi.nlm.nih.com](http://www.ncbi.nlm.nih.com). accessed on 17<sup>th</sup> sep 2006.
- Brock, J.A. and Main, K.L. 1994. A guide to common problems and diseases of cultured *Penaeus vannamei*. The Oceanic Institute Makapuu Point, Honolulu, Hawaii. pp. 242.
- Brock, J.A., Gose, R., Lightner, D.V. and Hasson K.W. 1995. An overview on tuara syndrome , an important disease of farmed *Penaeus vannamei*. In: Browdy C.L., Hopkins J.S. (eds.). *Swimming through troubled water. Proceedings of the special session on shrimp farming*. World Aquaculture Society, Baton Rouge, LA, pp. 84-94.
- Brock, J.A., Gose, R.B., Lightner, D.V and Hasson, K.W. 1997. Recent developments and overview of Taura syndrome of farmed shrimp in the americas. pp. 267-283. In: Flegel, T.W. and Mac-Rae, I.H. (eds.). *Disease in asian aquaculture III*. Fish health section, Asian Fisheries Society, Manila, Philippines.
- Burrell, P.C., Keller, J. and Blackall, L.L. 1998. Microbiology of a nitrite-oxidizing bioreactor. *Appl. Environ. Microbiol.* 64: 1878-1883.

- Chen, J.C. and Cheng, S.Y. 1993. Studies on haemocyanin and haemolymph protein levels of *Penaeus japonicus* based on sex, size and moulting cycle. *Comp. Biochem. Physiol.* 106: 233-296.
- Chen, S.N., Huang, S.L. and Kou, G.H. 1992. Studies on epizootiology and pathogenicity of bacteria infections in cultured giant tiger prawns (*Penaeus monodon*) in Taiwan. pp. 195-208. In Fulka, W. and Main, K.L. (eds.). *Disease of Cultured Penaeid Shrimp in Asia and The United State*. Hawaii: The Oceanic Institute.
- Chen, H.Y. 1998. Nutritional requirements of the black tiger shrimp : *Penaeus monodon*. *Rev. Fish. Sci.* 6: 79-95.
- Chythanya R. and Karunasager, I. 2002. Inhibition of shrimp pathogenic vibrios by marine *Pseudomonas* I-2 strain. *Aquaculture* 208: 1-10.
- Daims, H., Bruhl, A., Amann, R., Schleifer, K.H. and Wagner, M. 1999. The domain-specific probe EUB338 is insufficient for the detection of all Bacteria: development and evaluation of a more comprehensive probe set. *Syst. Appl. Microbiol.* 22: 434-444.
- Dempsey, A.C. and Kitting, C.L. 1987. Characteristics of bacteria isolated from penaeid shrimp. *Crustaceana* 52: 90-93.
- Dempsey, A.C. and Rosson, R.A. 1989. Bacteria variability among individual penaeid shrimp digestive tracts. *Crustaceana* 56: 267-276.
- Depalnce, B., Hristova, K.R., Oakley, H.A., McCracken, V.J., Aminov, R., Machie, R.I. and Gaskins, H.R. 2000. Molecular ecological analysis of the succession and diversity of sulfate-reducing bacteria in the mouse gastrointestinal tract. *Appl. Environ. Microbiol.* 66: 2166-2174.
- Duncan, D.B. 1955. Multiple-range and multiple F tests. *Biometrics* 11: 1-42.
- Eilers H., Pernthaler J., Glöckner F. and Aman R. (2000). Culturability and in situ abundance of pelagic bacteria from the North Sea. *Appl. Environ. Microbiol.* 66: 3044-3051.
- WHO. 2002. Guidelines for the evaluation of probiotic in food. Pp. 11. *In* Magdalena, A (ed.). Report of a joint FAO/WHO working group on drafting guidelines for the evaluation of probiotic in food. London Ontario, Canada.

- Flegel, T.W. 2006. Detection of major penaeid shrimp viruses in Asia, a historical perspective with emphasis on Thailand. *Aquaculture*. 358: 1-33.
- Fuller, R. 1989. Probiotic in man and animals. *J. Appl. Bacteriol.* 66: 365-378.
- Fuller, R. 1992. *Probiotics: The Scientific Basis*. pp. 1-8. London: Chapman and Hall.
- Fuller, R. 1997. *Probiotics 2: Applications and Practical Aspects*. London: Chapman & Hall.
- Fuller, R. and Gibson, G. 1998. Probiotics and prebiotics. pp. 1633-1639. New York: Academic Press.
- Garcia-de-la-Banda, I., Chereguini, O. and Rasines, I. 1992. Influence of lactic acid bacteria additives on turbot (*Scophthalmus maximus* L.) larvae culture. *Bol. Inst. Esp. Oceanogr.* 8 : 247-254.
- Gatesoupe, F.J. 1994. Lactic acid bacteria increase the resistance of turbot larvae, *Scophthalmus maximus*, against pathogenic *Vibrio*. *Aquatic Living Resources.* 7: 277-282.
- Gibson, R. 1982. Feeding and digestion in decapod crustaceans. In : *Proceedings of the Second International Conference on Aquaculture Nutrition* : Oruder, G.D., Long, C.J. and Conklin, D.E.(eds.). Biochemical and Physiological Approaches to Shellfish Nutrition. Rehoboth Beach, Delaware.
- Gildberg, A., Mikkelsen, H., Sandaker, E. and Ringo, E. 1997. Probiotic effect of lactic acid bacteria in the feed on growth and survival of fry of Atlantic cod (*Gadus morhua*). *Hydrobiologia.* 352 : 279-285.
- Gomez-Gill, B., Roque, A. And Turnbull, J. 2000. The use and selection of probiotic bacteria for use in the culture of larval aquatic organisms. *Aquaculture.* 191: 259-270.
- Gullian, M., Rhompson, F. and Rodriguez, J. 2004. Selection of probiotic bacteria and study of their immunostimulatory effect in *Penaeus vannamei*. *Aquaculture.* 233: 1-14.
- Harmsen, H.J, Elfferich, P., Schut, F. and Welling, G. 1999. A 16S rRNA-targeted probe for detection of lactobacilli and enterococci in faecal samples by fluorescent *in situ* hybridization. *Microb. Ecol. Health. Dis.* 11: 3-12.
- Hart, A.L., Stagg, A.J., Frame, M., Graffner, H., Glise, H., Falk, P. and Kamm, M.A. 2002. Review article: the role of the gut flora in health and disease, and its modification as therapy. *Aliment Pharmacol Ther.* 16: 1383-1393.

- Hasson, K.W., Lightner, D.V., Poulos, B.T., Redman, R.M., White, B.L., Brock, J.A. and Bonami, J.R. 1995. Taura Syndrome in *Penaeus vannamei* : Demonstration of a viral etiology. *DAO*. 23: 115-126.
- Hensiek, R., Krupp, G. and Stackebrandt, E. 1992. Development of diagnostic oligonucleotide probes for four *Lactobacillus* species occurring in the intestinal tract. *Syst. Appl. Microbiol.* 15: 123-128.
- Hinrichson, H.P., Dutly, F. and Altwegg, M. 2000. Analysis of the actinobacterial insertion in domain III of 23s rRNA gene of uncultured variants of the bacterial associated with Whipple's disease using broad-range and 'Tropheryma whippelii' specific PCR. *Int. J. Syst Evol. Microb.* 50: 1007-1012.
- Holthuis, L.B. 1980. Shrimps and Prawns of the World: An Annotated Catalogue of Species of Interest to Fisheries. *FAO Fisheries Synopsis*, no. 125, vol. 1. xvii - 271.
- Holzapfel, H. W. and Schillinger, U. 2002. Introduction of pre- and probiotics. *F. Res. Internat.* 35: 109-116.
- Hyvarinen, A. and Nikkila, E. 1962. Specific determination of blood glucose with o-toluidine. *Clin. Chem. Acta.* 7: 140-143.
- Jensen, T.K., Boye, M., Hagedorn-Olssen, T., Riisin, H.J. and Angen, O. 1999. *Actinobacillus pleuropneumoniae* Osteomyelitis in pig Demonstrated by Fluorescent *In Situ* Hybridization. *Vet. Pathol.* 36: 258-261.
- Jiravanichpasisal, P., Miyazaki, T. and Limsuwan, C. 1994. Histopathology, biochemistry and pathogenicity of *V. harveyi* infecting black tiger prawn. *J. Aquat. Anim. Health.* 6: 27-35.
- Karunasagar, I., Pai, R. and Malathi, G.R. 1994. Mass mortality of *Penaeus monodon* larvae due to antibiotic-resistance *V. harveyi* infection. *Aquaculture.* 128:203-209.
- Kimura, N., Mimura, F., Nishida, S. and Kobayashi, A. 1976. Studies on the relationship between intestinal flora and fecal coccidiosis in chicken. *Poult. Sci.* 55: 1375-1383.
- Knarreborg, A., Simon, M.A., Engberg, M., Jensen, B.B. and Tannoch, G.W. 2002. Effects of dietary fat source and subtherapeutic level of various ads. *Appl. Environ. Microbiol.* 68: 5918-5924.

- Lavilla-Pitego, C.R., Baticados, M.C.L., Lruz-Lalierda, E.R. and DelaPena, L.D. 1990. Occurrence of lumonouse bacteria disease of *Penaeus monodon* larvae in the Philippines. *Aquaculture*. 91:1-13.
- Lee, K., Chen, Y. and Liu, P. 1999. Hemostasis of tiger Prawn *Penaeus monodon* affected by *V. harveyi*, Extracellular Products and toxic Cysteine Pritease. *Blood Cells, Molecules, and Diseases* 25:180-192.
- Lightner, D.V., Redman, R.M., Hasson, K.W., and Pantoja, C.R. 1995. Taura syndrome in *Penaeus vannamei* (Crustacea: Decapoda): gross signs, histopathology and ultrastructure. *DAO*. 21: 53-59.
- Lightner, D.V. 1996. A handbook of Pathology and diagnostic procedures for diseases of penaeid shrimp. World Aquaculture Society, Baton Rouge, LA.
- Lin, S.Y., Minkler, W., Sundine, E. And Ayres, J.W. 1989. Lactobacillus effect on chlolesterol: *In vitro* and *vivo* Results. *J. Dairy Sci.* 72 : 2885-2899.
- Lowry, O.H., Roserough, N.J., Farr, A.L. and Randall, R.J. 1951. Protein measurement with the folin phenol reagent. *J. Biol. Chem.* 193: 139-142.
- Louise, A.O., Weightman, A.J. and Fry, J.C. 2002. New degenerate Cytophaga-Flexibacter-Bacteroides-specific 16s Ribosomal DNA-targeted oliginucleotide probe reveal high bacterial diversity in rever Taff Epilithin. *Appl. Environ. Microbiol.* 68: 201-210.
- Lu, J., Idris, U., Harmon, B. and Hofacre, C. 2003. Diversity and succession of the intestinal bacterial community of the maturing broiler chicken. *Appl. Environ. Microbiol.* 69: 6816-6824.
- Madigan, M.T. and Martinko, J.M. 2006. Brock Biology of Microorganisms. Eleventh Edition. Pearson, USA. pp.992.
- Manz, W., Amann, R., Ludwig, W., Wagner, M and Schleifer, K.H. 1992. Phylogenetic oligodeoxynucleotide probes for the major subclass of *Proteobacteria*: problem and solution. *Syst. Appl. Microbiol.* 15: 593-600.

- Matteuzzi, D., Swennen, E., Rossi, M., Hartman, T. and Lebet, V. 2004. Preboitic effects of a wheat germ preparation in human healthy subjects. *Food Microbiology*. 21:119-124.
- Meier, H., Amann, R., Ludwig, W. and Schleifer, K.H. 1999. Specific oligonucleotide probes for *in situ* detection of a major group of gram-positive bacteria with low DNA G+C content. *Syst. Appl. Microbiol.* 22: 186-196.
- Moriarty, D.J.W. 1999. Disease control in shrimp aquaculture with probiotic bacteria. In: Bell, C.R., Brylinsky, M. and Green, J. (eds.). *Microbial Interactions in Aquaculture*. The 8<sup>th</sup> International Symposium on Microbial Ecology. Atlantic Canada Society for Microbial Ecology, Halifax, Canada.
- Ogunbanwo, S. T., Sanni, A. I. and Onilude, A. A. 2003. Characterization of bacteriocin produced by *Lactobacillus plantarum* F1 and *Lactobacillus brevis* OG1. *African J. of Biotechnol.* 2: 219-227.
- Oxley, A.P.A., Shipton, W., Owens, L. and McKay, D. 2002. Bacteria flora from the gut of the wild and cultured banana prawn, *Penaeus merguensis*. *J. Appl. Microbiol.* 93:214-223.
- Prescott, L.M., Harley, J.P., and Klein, D.A. 2005. *Microbiology*. 6<sup>th</sup> edition. Singapore: McGraw-Hill international edition.
- Pryde, S.E., Richardson, A.J., Stewart, C.S. and Flint, H.J. 1999. Molecular analysis of the microbial diversity present in the colonic wall, colonic lumen, and cecal lumen of pig. *Appl. Environ. Microbiol.* 65: 5372-5377.
- Rengpipat, S., Phianphak, W. Piyatiratitivorakul, S. and Menasveta, P. 1998. Effects of a probiotic bacterium on black tiger shrimp *Penaeus monodon* survival and growth. *Aquaculture*. 167: 301-313.
- Roller, C., Wagner, M., Amann, R., Ludwig, W. and Schleifer, K.H. 1994. *In situ* probing of gram-positive bacteria with high G+C content using 23s rRNA-targeted oligonucleotides. *Microbiology*. 140: 2849-2858.
- Schleifer, K.H., Amann, R., Ludwig, W., Rothmund, C., Springer, N. and Dorn, S. 1992. Nucleic acid probes for the identification and *in situ* detection of *pseudomonas*, p. 127-134. In Galli, E., Silver, S. and Witholt, B. (ed.), *Pseudomonas: molecular biology and biotechnology*. American Society for Microbiology, Washington D.C.

- Schramm, A. and Amann, R. 2000. Nucleic acid-bases techniques for analyzing the diversity structure and dynamics of microbial communities in wastewater treatment. *Biotechnology-Environmental Processes*. pp. 86-104. Bremen:Wiley-VCH.
- Sghir, A., Gramet, G., Suau, A., Rochet, V., Pochart, P. and Dore, J. 2000. Quantification of bacteria groups within human fecal flora by oligonucleotide probe hybridization. *Appl. Environ. Microbiol.* 66:2263-2266.
- Song, Y.L., Yu, C.I., Lien, T.W., Huang, C.C. and Lin, M.N. 2003. Haemolymph parameters of pacific white shrimp (*Litopenaeus vannamei*) infected with Taura syndrome virus. *Fish and Shellfish Immunology*. 14: 317-331.
- Steel, R.G.D. and Torrie, J.H. 1980. Principle and procedures of statistics. 2<sup>nd</sup> edition. New York: McGraw-Hill. pp. 633.
- Suau, A., Bonnet, R., Sutren, M., Godon, J.J., Gibson, G. R., Collins, M. D. and Dore', J. 1999. Direct analysis of genes encoding 16S rRNA from complex communities reveals many novel molecular species within the human gut. *Appl. Environ. Microbiol.* 65: 4799-4807.
- Swidsinski, A., Loening-Baucke, V., Lochs, H. and Hale, L.P. 2005. Spatial organization of bacterial flora in normal and inflamed intestine: A fluorescence *in situ* hybridization study in mice. *World J. Gastroenterology*. 11: 1131-1140.
- Teo, J.W.P., Zhang, L. and Poh, C.L. 2003. Cloning and characterization of a metalloprotease from *Vibrio harveyi* strain AP6. *Gene*. 303:147-156.
- Thimm, T. and Tebbe, C. 2003. Protocol for rapid fluorescence *in situ* hybridization of bacteria in cryosections of microarthropods. *Appl. Environ. Microbiol.* 69: 2875-2878.
- Tu, C., Huang, H.T., Chuang, S.H., Hsu, J.P., Huo, S.T., Li, N.J., Hsu, T.L., LI, M.C. and Lin, S.Y. 1999. Taura syndrome in Pacific white shrimp (*Penaeus vannamei*) cultured in taiwan. *DAO*. 38: 159-161.
- Van Reenen, C.A., Dicks, L. M. T. and Chikindas, M. L. 1998. Isolation, purification and partial characterization of plantaricin 423, a bacteriocin produced by *Lactobacillus plantarum*. *Appl. Environ. Microbiol.* 64: 1131-1137.
- Wyban, J.A. and Sweeney, J.N. 1991. The oceanic institute shrimp manual-intensive shrimp production technology. The Oceanic Institute, Honolulu, Hawaii. 158 pp.



- Yuthachit, P., Vaoravuthikunchai, S. and Suintanalert, P. 1990. Studies of bacterial microbiota in the gastrointestinal tract of cultured tiger prawn (*Penaeus monodon*). Songklanakarin. J. Sci. technol. 12:151-157.
- Zhang, H.P.G., Meaden, I. and Austin, R. 2001. Duplication of hemolysis genes in virulent isolate of *Vibrio harveyi*. Appl. Environ. Microbiol. 67: 3161-3167.
- Zoetendal, E.G., Collier, C.T., Koike, S. and Mackie, R.I. 2004. Molecular ecological analysis of the gastrointestinal microbiota: A review. j. Nutri. 134: 465-471.