

บทที่ 6 เอกสารอ้างอิง

นกุล รัตนพันธ์, 2547, ความสัมพันธ์ระหว่างสัณฐานวิทยาของรากับความเร็วรอบการกวนปริมาณ และลักษณะหัวเชื้อในการหมักแบบอาหารเหลวของ *Aspergillus oryzae* U1521, วิทยานิพนธ์ปริญญาวิทยาศาสตรมหาบัณฑิต, สายวิชาเทคโนโลยีชีวภาพ, คณะทรัพยากรชีวภาพและเทคโนโลยี มหาวิทยาลัย เทคโนโลยีพระจอมเกล้าธนบุรี

ชานนท์ สัตยารมณ, 2549, ผลของการปรับสภาพบรรยากาศต่อสัณฐานวิทยาและการผลิตอัลคาไลน์ โปรติเอสของรา *Aspergillus oryzae* U1521ในการหมักแบบอาหารเหลว, วิทยานิพนธ์ปริญญาวิทยาศาสตรมหาบัณฑิต, สายวิชาเทคโนโลยีชีวภาพ, คณะทรัพยากรชีวภาพและเทคโนโลยี มหาวิทยาลัย เทคโนโลยีพระจอมเกล้าธนบุรี

สุนันทา ลิ้มโปเจริญชัย, 2545, การย่อยสลายตัวเองของรา *Aspergillus oryzae* U1521 ในระหว่างการผลิตอัลคาไลน์โปรติเอส, วิทยานิพนธ์ปริญญาวิทยาศาสตรมหาบัณฑิต, สายวิชาเทคโนโลยีชีวภาพ, คณะทรัพยากรชีวภาพและเทคโนโลยี มหาวิทยาลัย เทคโนโลยีพระจอมเกล้าธนบุรี

Amanullah, A., Christensen, L.H., Hansen, K., Nienow, A.W. and Thomas, C.R., 2002, "Dependence of morphology on agitation intensity in fed-batch culture of *Aspergillus oryzae* and its implication for recombinant protein production", **Biotechnology Bioengineering**, 77, 815-826.

Carlsen, M. Spohr and A.B., Neilsen, J., 1996. "Morphology and Physiology of an α -amylase production Strain of *Aspergillus oryzae* during batch cultivation", **Biotechnology and Bioengineering**, 49, 266-276.

Carlile, M.J. and Watkinson, S.C., 1994, *The Fungi*, Academic Press Inc., London, pp. 9-76.

Chaplin, M. F., 1986, "Monosaccharides", In **Carbohydrate Analysis: A Practical Approach**, Chaplin M.F. and Kennedy, J.F. (Eds.), IRL Press, Oxford, England, pp. 1-13.

Chisti, Y., 1999, Shear sensitivity. In: Flickinger MC, Drew SW, editors. Encyclopedia of bioprocess technology: Fermentation, **Biocatalysis and Bioseparation**, Vol. 5. New York: John Wiley; p. 2379-406.

Cui, Y.Q., van der Lans, R.G.J.M., Giuseppin, M.L.F. and Luyben, K.C.A.M., 1998a, "Influence of fermentation conditions and scale on submerged fermentation of *Aspergillus awamori* " **Enzyme and Microbial Technology**, 23, 157-167.

Cui, Y.O., van der Lans, R.G.J.M., and Luyben, K.C.A.M., 1998b, "Effect of Dissolved Oxygen Tension and Mechanical Forces on Fungal Morphology in Submerged Fermentation " **Biotechnology and Bioengineering**, 57(4) , 409-419.

Domingue, F.C., Queiroz, J.A., Cabral, J.M.S. and Fonseca, L.P., 2000 "The influence of culture condition on mycelial structure and cellulose production by *Trichoderma reesii* Rut C-30", **Enzyme and Microbial Technology**, 26, 394-401.

Gibbs, P.A., Seviour, R.J. and Schmid, F., 2000, "Growth of filamentous fungi in submerged culture: Problems and possible solutions", **Critical Reviews in Biotechnology**, 20, 17-48.

Hemmersdorfer H, Leuchtenberger A, Wardsack C, Ruttloff H., 1987, "Influence of culture condition on mycelial structure and polygalactonidase synthesis of *Aspergillus niger* " **Journal Basic Microbiology** , 27, 309-324.

Higashiyama K, Murakami K, Tsujimura H, Matsumoto N, Fujikawa S., 1999, "Effect of dissolved oxygen on the morphology of an arachidonic acid production by *Mortierella alpina* 1S-4 " **Biotechnology Bioengineering**, 63, 442-449.

Jian-feng, X., Liping. W., Darin R., Tinggyue G. and Moo-Young, M., 2000, "Increased heterologous protein production in *Aspergillus niger* fermentation through extracellular protease inhibition by pellet growth", **Biotechnology Progress**, 16, 222-227.

Jin, B., Leeuwven, J. (Hans) and Patel, P., 1999, "Mycelial morphology and fungal protein production from starch processing wastewater in submerged culture of *Aspergillus oryzae*", **Process Biochemistry**, 34, 335-340.

Johansen, C.L., Coolen, L. and Hunik, J.H., 1998, "Influence of Morphology on Product Formation in *Aspergillus awamori* during Submerged Fermentation", **Biotechnology Progress**, 14, 233-240.

Lai, L.S.T., Tsai, T.H., Wang, T.C. and Cheng, T.Y., 2005, "The influence of culturing environmental on lovastatin production by *Aspergillus terreus* in submerged cultures", **Enzyme and Microbial Technology**, 36, 737-748.

Lejeune, R. and Baron, G.V., 1995, "Effect of agitation on growth and enzyme production of *Trichoderma reesei* in batch fermentation" **Applied Microbiology and Biotechnology**, 43, 249-258.

Lian-Xiang Du, Su-Juan Jia, Fu-Ping Lu., 2003., "Morphological changes of *Rhizopus chinesis* 12 in submerged culture and its relationship with antibiotic production" **Process Biochemistry**, 38, 1643-1646.

Lopez, C.J.L., Sanchez Perez, J.A., Fernandez Sevilla, J.M. and Acien Fernandez, F.G., Molina Grima, E. and Christi, Y., 2004, "Fermentation optimization for the production of lovastatin by *Aspergillus terreus* : use of the response surface methodology", **Journal of Chemical Technology and Biotechnology**, 79, 737-748.

McIntyre, M. and McNeil, B., 1997a, "Dissolved Carbon Dioxide Effect on Morphology, Growth, and Citrate Production in *Aspergillus niger* A60", **Enzyme and Microbial Technology**, 20, 135-142.

McIntyre, M. and McNeil, B., 1997b, “Effect of Carbon Dioxide on Morphology and Product Synthesis in Chemostat Cultures of *Aspergillus niger* A60”, **Enzyme and Microbial Technology**, 21, 479-483.

McIntyre, M. and McNeil, B., 1997c, “Effects of Elevated Dissolved CO₂ Levels on Batch and Continuous Cultures of *Aspergillus niger* A60 : an Evaluation of Experimental Methods”, **Applied and Environmental Microbiology**, 63, 4171-4177.

McIntyre M., Breum J., Arnua J., Neilson J., 2002, “Growth physiology and dimorphism of *Mucor circinelloides* (syn. *Racemosus*) during submerged batch cultivation” **Applied Microbiology Biotechnology** , 58, 495-502.

Paul, G.C., Priede, M.A. and Thomas, C.R., 1999, “Relationship between morphology and citric acid production in submerged *Aspergillus niger* fermentation”, **Biochemical Bioengineering Journal**, 3, 121-129.

Rouhang, W., Law, R.C.S. and Webb, C., 2004, “Protease production and conidiation by *Aspergillus oryzae* in flour fermentation”, **Process Biochemistry**, 40, 217-227.

Van Suijdam, J.C., Kossen N.W.F. and Paul P.G., 1980, “An inoculums technique for the production of fungal pellets”, **European Journal of Applied Microbiology and Biotechnology**, 10, 211-221.

Wongwicharn, A., McNeil, B. and Harvey, L.M., 1999, “Effect of oxygen enrichment on morphology growth and heterologous protein production in chemostat cultures of *Aspergillus niger* B1-D”, **Biotechnology and Bioengineering**, 64(4), 416-424.

Ya-Jie T., and Jian-Jiang Zhong., 2003, “Role of oxygen supply in submerged fermentation of *Ganoderma lucidum* for production of *Ganoderma* polysaccharide and ganoderic acid”, **Enzyme and Microbial Technology**, 32, 478-484.