

Korean Chemical Engineering Research

-A New Horizon of Biochemical Engineering-

February 2006
Volume 44, Number 1

Korean Chem. Eng. Res., 44(1) 1-106(2006)
ISSN 0304-128X

Review

Biodevice Technology	Jeong-Woo Choi and Bum-Hwan Lee	1
Nanobiotechnology	Hyun Kyu Park and Bong Hyun Chung	10
Biological Hydrogen Production Processes	Jong-Hwan Shin and Tai Hyun Park	16
Industrial Biotechnology: Bioconversion of Biomass to Fuel, Chemical Feedstock and Polymers	Sun-Gu Lee and Sunghoon Park	23

Article

Temperature Effect on the Retention Behavior of Sugars and Organic Acids on poly (4-vinylpyridine) Resin	Jin-Il Kim, Chong-Ho Lee and Yoon-Mo Koo	35
Effects of Recombinant Baculovirus Infection Conditions on Production of Green Fluorescent Protein in <i>Drosophila</i> S2 Cells	Hye Sook Cho, Yeon Kyu Kim, Kyoung Ro Kim and Hyung Joon Cha	40
Biological CO ₂ Fixation to Antioxidant Carotenoids by Photosynthesis Using the Green Microalga <i>Haematococcus pluvialis</i>	Chang Duk Kang, Tai Hyun Park and Sang Jun Sim	46
Production of Bacterial Cellulose Using Waste of Beer Fermentation Broth	Joong Kon Park, Seung Hoon Hyun and Won Sool Ahn	52
Development of Organ Culture Medium for Long Term Culture of Human Hair Follicle	Bo-Young Yoo, Hee-Hoon Yoon, Yeon-Ho Shin, Young-Kwon Seo, Doo-Hoon Lee, Kye-Yong Song, Sung-Joo Hwang and Jung-Keug Park	58
Effect of Antibody Immobilization Method to Magnetic Micro Beads on its Immunobinding Characteristics	Hyo Jin Choi, Sang Youn Hwang, Dae Ho Jang, Hyung Min Cho, Jung Hye Kang, Gi Hun Seong, Jae Bum Choo and Eun Kyu Lee	65
<i>Ex vivo</i> Expansion of CD34 ⁺ Hematopoietic Cells from Cord Blood in Various Culture Environments	Yong Woon Choi and Duk Jae Oh	73
Study of Antimicrobial and Antioxidant Activities of <i>Rumex crispus</i> Extract	Gwi-Taek Jeong, Kyoung-Min Lee and Don-Hee Park	81
Effect of Polysaccharide from <i>Schizophyllum commune</i> on Burn and Wound Healing	Min Kyoung Kim and Eock Kee Hong	87
Stabilization of HRP Using Hsp90 in Water-miscible Organic Solvent	Ja Hee Chung, Yoo Seong Choi, Seung Hoon Song and Young Je Yoo	92
Simulation Study of Dynamic Network Model for L-Threonine Biosynthesis in <i>Escherichia coli</i>	Uisub Jung and Jinwon Lee	97