

## 酵素学, タンパク質工学, および酵素工学

1. Scaling up of levan yield in *Bacillus subtilis* M and cytotoxicity study on levan and its derivatives..... 655
2. Comparative biocontrol ability of chitinases from bacteria and recombinant chitinases from the thermophilic fungus *Thermomyces lanuginosus*..... 663
3. Production of highly thermo-tolerant laccase from novel thermophilic bacterium *Bacillus* sp. PC-3 and its application in functionalization of chitosan film..... 672
4. 超好熱始原菌 *Thermococcus kodakarensis* KOD1 株由来嫌氣的グリセロール-3-リン酸デヒドロゲナーゼ複合体..... 679

## 微生物生理学・発酵生産

5. 中度好熱性水素細菌 *Hydrogenophilus thermoluteolus* TH-1 におけるポリ- $\beta$ -ヒドロキシ酪酸蓄積の生理学的特徴づけ..... 686
6. Mutated *fabG* gene encoding oxidoreductase enhances the cost-effective fermentation of jasmine rice vinegar in the adapted strain of *Acetobacter pasteurianus* SKU1108..... 690
7. Mutagenesis of *Rhodobacter sphaeroides* using atmospheric and room temperature plasma treatment for efficient production of coenzyme Q10..... 698

## 醸造・食品工学

8. *In vitro* and *in vivo* inhibition of Hass Avocado polyphenol oxidase enzymatic browning by paeonol,  $\beta$ -cyclodextrin, and paeonol: $\beta$ -cyclodextrin inclusion complex..... 703
9. 多元素プロファイリングを用いた清酒における割水用水の無機元素プロファイルとDMTS生成の関連性の解析..... 710

## 生物化学工学

10. Exoelectrogenic response of *Pichia fermentans* influenced by mediator and reactor design..... 714
11. Glucose/xylose切り替え流加法による乳酸ポリマー生産大腸菌の高密度培養..... 721
12. オイルパーム廃棄古木の搾汁液を用いた *Lipomyces starkeyi* による油脂生産..... 726
13. Cometabolic degradation of bisphenol A by pure culture of *Ralstonia eutropha* and metabolic pathway analysis..... 732

## セル&amp;ティッシュエンジニアリング

14. Anti-melanization effects and inhibitory kinetics of tyrosinase of bird's nest fern (*Asplenium australasicum*) frond extracts on melanoma and human skin..... 738
15. ボツリヌス菌由来ヘマグルチニンを用いた細胞挙動の調節によるヒトiPS細胞の未分化維持..... 744
16. 組換え抗体生産CHO細胞からの凝集化IgG1抗体の分泌..... 752

## 生体医用工学

17. Characterization and antioxidant activity of an acidic exopolysaccharide from *Lactobacillus plantarum* JLAU103..... 758

## 実験技術

18. Bio-ionic liquid pretreatment and ultrasound-promoted enzymatic hydrolysis of black soybean okara..... 767