

# Systems Biology and Bioinformatics

## » ÁÐÇÑµÔ

Ëéí§»-Ô°ÑµÔ;ÒÃÇÔ-ÑÁÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-Ë ÁËÒÇÔ-ÁÔÁÑÁà-µá¹áÁÔÔ³ÁÐ-ÍÁà;ÁéÒ¹°ØÁÔ à»Ç¹¼Ùé°Ø;à°Ç  
áÁÐÇÔËÇ;ÁÁÁàÁµÔâ°ÁÔµ (metabolic engineering) ;ÁØéÁÇÔ-ÑÁÁÔµÇÔÁÁèÇÁÁ×;íÑ°Ë¶Ô°Ñ¹µèÒ§æ-ÔèÁÔ³¼×é¹°Ô¹µÇÔÁÁ  
·ÔáËé;ÁØéÁÇÔ-ÑÁÁÔµÇÔÁÁèÇÔÁÔÁ¶;ÔÁ³¼Ñ²Ôà-µ¹ÔµÇÔ,Ô;ÔÁ³¼×è;àçéÔá-ËÔè§ÁÔ°ÔÇÔµ-Ô;çé;ÁÚÁ-Ôá¹Á ( genome )

;ÔÃÇÔ-ÑÁÇ;Ëéí§»-Ô°ÑµÔ;ÒÃÇÔ-ÑÁÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-Ë à¹é¹;ÔÃÇÔàµÁÔÐË;à°Ô§ÁÐ°ç; ÇÔËÇ;ÁÁÁàÁµÔâ°ÁÔµ  
ÁÑ¹ËÔ»ÐËÑ§ ( Cassava ) ¼ÁÔËáÁà´ÔÁÁ ( Plasmodium ) à°×é;ÇÑ³áÁµ ( Tuberculosis ) áÁÐËÔËÁèÔÁË»ÁÚÁÔ¹Ô ( Spirulina )  
à³¼×è;àçéÔá-ÔÇÇÔ-ÁÔà°Ô§ÁÐ°ç;ËÔè§ÁÔ°ÔÇÔµàËÁèÔ¹Ôé «Ôè§-Ð¹Ôá»ËÙè;ÔÁ»ÁÑ°»ÁØ§ËÔÁ³¼Ñ¹;Ø; áÁÐ;ÔÁËÔà»é  
àµÁ×è;Á×;ÁÁÐá»Áá;ÁÁ´éÔ¹°ÔÇËÔÁË¹à-Ë áÁÐ°Ô¹çé;ÁÚÁµèÒ§æ ¼Áé;Á;Ñ°;ÔÁËÔ;ËÔ´éÔ¹°ÔÇáÁà;Á;ØáÁÐ;ÔÁËÑ;á¹Ëé;í  
Ëéí§»-Ô°ÑµÔ;ÒÃÇÔ-ÑÁÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-ËËÔÁÔÁ¶³¼Ñ²Ôá°Ô-ÔÁ;§-Ô§µ³ÔµËÔËµÁ; áÁÐ-ÔÁ;§³¼µÔ;ÁÁÇ;á»«ÁÁ;Á  
áÁÐ;ÔÁà»ÁÔèÁ¹á»Á§´éÔ¹ÁÔ¹°¹;Á³¼ÔÇ;àµ;Á; µÇ°µÙè;Ñ°;ÔÁà»ÁÔÁ°à-ÔÁ°¼Á;ÔÁ-Á;í§á¹Ëé;í§»-Ô°ÑµÔ;ÔÁ

## ÇÑµ¶Ø»ÁÐË§µ;í

- à³¼×è;í³¼Ñ²Ô-Ñ;ËÐµÇÔÁÁÙé³¼×é¹°Ô¹´éÔ¹°ÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-Ë
- à³¼×è;»ÁÐÁØ;µ;íãéàµÁ×è;í§Á×´éÔ¹°ÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-Ëá¹;ÔÁ³¼Ñ²Ôà-µá¹áÁÔÔ³ÔÇÀÔ³¼á¹»ÁÐà-Ëä-Á
- à³¼×è;í³¼Ñ²ÔáÁÐË¹Ñ°Ë¹Ø¹-ÁÑ³¼ÁÔ;ÁØµµÁá¹´éÔ¹°ÔÇÇÔ-ÁÔÁÐ°áÁÐ°ÔÇËÔÁË¹à-Ë

## §Ò¹ÇÔ-ÑÁáÁÐ³¼Ñ²Ô-Ôè´Ôá¹Ô¹;ÔÁ

- ;ÔÁËÔ;ËÔ°ÔÇÇÔ-ÁÔà°Ô§ÁÐ°ç;í§;ÁÐ°Ç¹;ÔÁËËéÔ§ÁÔ»Ô´¹Ô´µèÒ§æ á¹ÁÔËµ;í
- ;ÔÁËÔ;ËÔ°ÔÇÇÔ-ÁÔÁÐ°áÁÐ°á×é;»ÁÑ°»ÁØ§»ÁÔÁÔ³áÁÐµØ³ÁÔ³¼ç;á»é§-Ô;µé¹ÁÑ¹ËÔ»ÐËÑ§ ( Cassava )
- ;ÔÁËÔ;ËÔËÔÁÓ-Ñ°à°Ë-Ôá;ç¹;á;íç;ËÔËÁèÔÁË»ÁÚÁÔ¹Ô ( Spirulina )
- ;ÔÃÇÔàµÁÔÐË;çé;ÁÚÁç;á»µà°ÔËÇÔ¹ áÁµ;ÁÐ´Ù;³¼ÁØ¹

## à-µá¹áÁÔÔ-Ôè³¼Ñ²Ô

- High Throughput Technology

- High Throughput Technology

- High Throughput Technology

- High Throughput Technology

- High Throughput Technology Protein/DNA & protein interaction

- High Throughput Technology

- High Throughput Technology

- High Throughput Technology

- High Throughput Technology

High Throughput Technology

- High Throughput Technology

High Throughput Technology

High Throughput Technology

- Technical University of Denmark (DTU)

- University of Queensland ( Australia )

- Kazusa DNA Research Institute (KDRI), Japan

- RIKEN, Japan

## ÃĐ·Ñ<sup>0a</sup>ÒµÔ

- ÈÙ'Âì¼Ñ' , ØÇÔÈÇ;ÃÃÁáÁĐà·â'âÃÃÕªÕÇÀÒ¼áÈè§ªÒµÔ
- ÈÙ'Âìà·â'âÃÃÕíÒàÁÇ;·Ãí'Ô;ÈìáÁĐâíÁ¼ÕÇàµíÃìáÈè§ªÒµÔ
- ÈÙ'Âìà·â'âÃÃÕáÁÈĐáÁĐÇÑÈ'ØáÈè§ªÒµÔ
- ÈÙ'Âì'Òá'â·â'âÃÃÕáÈè§ªÒµÔ
- ÁÈÒÇÔ·ÀÒÃÑÀàªÕÁŞãÈÁè
- ÁÈÒÇÔ·ÀÒÃÑÀà;ÉµÃÈÒÈµÃì
- ·ØìÒÁŞ;Ãª;ÁÈÒÇÔ·ÀÒÃÑÀ
- ÁÈÒÇÔ·ÀÒÃÑÀÁÈÒ'Á

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