

Fungal Biotechnology Laboratory

ĖėÍŖ»®Ō°ŊμŌ;ŌĀà·ġâ1âĀĀŌªŌÇĀŌ¾´éŌ1ĀŌ

(Fungal Biotechnology Laboratory)

»ĀĎÇŊμŌ

ĖėÍŖ»Ō°ŊμŌ;ŌĀà·ġâ1âĀĀŌªŌÇĀŌ¾´éŌ1ĀŌ ä´éÁŌèŖŖà1é1ĖŌ;ĖŌ;ŌĀăé»ĀĎâĀª1Ō;ŌĀŌ1.ĀŌĀiā1;ĀŌèĀĀŌĖμiāĀĎĀŌ·Ōè compound) ä´éá;è ĖŌĀă1;ĀŌèĀ polyketides non-ribosomal peptides áĀĎ;Ā´ăĈĀŊ1Ōà»Ç1ă1;ĀŌèĀĀiāĀ;éŌ 3 áĀĎ 6 á´ĀĬŌĖŊĀĖ (Systems Biology) «ŌèŖŖà»Ç1;ŌĀ·ŌŖŌ1ĀèÇĀ;Ŋ1ĀĎĖÇèŌŖŌŌĀĀiāĀĎ1Ŋ;ÇŌŌŊĀ·ŌèĀŌġÇŌĀàŌèĀÇªŌ-ă1ĖŌĈŌμèŌŖŖæ·Ŋésă à¾×èiā¾ŌèĀĈŌ ġÇŌĀĖŌĀŌĀġă1;ŌĀăĈèŖŖŊ1ĈÍŖ»ĀĎâ·Ė´éŌ1â·ġâ1âĀĀŌªŌÇĀŌ¾ăĀĎμĬ°Ė1ÍŖġÇŌĀμéÍŖ;ŌĀĈÍŖĀŌıŌμĖŌĖ;Ā

ÇŊμġŌ»ĀĎĖŖı

à¾×èiĖŌ;ĖŌ;ĀĎŌÇ1;ŌĀ;ŌĀĖŊŖŖàġĀŌĎĖİĖŌĀĬıĀ·Ōi·ŌŖªŌÇĀŌ¾Ō;ŌĀŌ ä´éá;èĖŌĀă1;ĀŌèĀ microbial oils , polyketide áĀĎ ġ´ĀĬŌĖŊĀă·ġâ1âĀĀŌ·ŌŖŖéŌıŖªŌÇÇŌ·ĀŌªŊé1ĖŪŖ àªè1 Systems biology, Bioinformatics, Metabolic engineering áĀĎ Combina à¾×èi»ĀŊŌ»ĀŌŖĖŌĀ¾Ŋ1,ŌiāĀĎ;ŌĀ¼ĀŌμĖŌĀ·ŌèĀŌ»ĀĎâĀª1Ō·ŌŖŖéŌ1â·ġâ1âĀĀŌªŌÇĀŌ¾ăĀŌŌ1.ĀŌĀi·Ōè1ŌĀŌ·Ō;ŌĀĖ áĀĎĀŌĖμi Saccharomyces cereiviae , Hansenula polymorpha

à¾×èi¾ŊŊ21ŌĀŌăĀĎĀŌĖμià»Ç1à«ĀĀiàŌéŌ°éŌ1ă1;ŌĀĖŊŖŖàġĀŌĎĖİ Heterologous protein, Unnatural áĀĎ Natural product

ŊèŌĀ·Íà·ġâ1âĀĀŌ;ŌĀĖŊŖŖàġĀŌĎĖİĖŌĀĬıĀ·ŌiªŌÇĀŌ¾ĈÍŖĀŌŌ;ŌĖėÍŖ»Ō°ŊμŌ;ŌĀĖŪèĀŌıŌμĖŌĖ;ĀĀĀ·Ōèà;ŌèĀÇĈéÍŖ

ŖŌ1ÇŌŌŊĀ·Ōè´Ōà1Ō1;ŌĀ

1. Microbial fatty acid and lipid metabolisms

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

2. Bioactive compounds

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

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 C_{18} fatty acid desaturase Δ elongases Δ M. rouxii

¿ÖÄÈÖ¿ÉÖ¿ÖÄáÊ´§Í¿¿Í\$ÄÖ¹áÄĐ¿ÖÄ¾Ñ²¹Ö¿ÖÄ¾ÄÔµÊÖÄã¹¿ÄØèÁ PKS/NRPS ``Ö¿ÄÖ Xylaria sp . ä¹ÄÖ Aspergillus

ºØ¤¤ÄÖ¿Ä

- ÄÊ.´Ä. ÊØÄÖÄÄ³¿ ºÖÇĐ,¹ÄÑ¿É¿
- ´Ä. ¿Íº¿ØÄ àÊÄèÖà-és
- ´Ä. ÈÑ¹Ê¹ÄÑ¿É³¿ ÄÑª®ÖÇ\$È¿
- ¹ÖÄÍ¹ØÇÑ²¹¿ àµªĐÄ, Ö¿
- ¹Ö\$³ÄÄ ÇÄ»ÄÖ´Ö
- ¹.Ê. ``ÖÄ¹Ñ¹.¿ ¿ÄèÍÄ¹ÄÖ
- ¹.Ê. ÊÄ¾ÖÈ ``Öµµ¿«×èÍ
- ¹.Ê. ÊØÄÖ¾Ä Ç\$È¿ÊÖÄÖ
- ¹Ö\$ÇÑ²¹Ö à``ÖÄÄµ¹

¤ÇÖÄÄèÇÄÁ×ÍÄĐ´Ñº¹Ö¹ªÖµÖ

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- Department of Biology, Institute for Experimental Pathology, University of Iceland, Iceland
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- School of Biosciences , University of Westminster , UK
- Center of Microbial Biotechnology , Technical University of Denmark , Denmark
- University of Salerno, Italy

¤ÇÖÄÄèÇÄÁ×ÍÄĐ´ÑªªÖµÖ

- ¤ÇÖÄÄèÇÄÁ×Íä¹\$Ö¹ÇÖ``ÑÄ´éÖ¹ Microbial lipid metabolism ¿ÑºÊéÍ\$»¯ÖºÑµÖ¿ÖÄ Microbial Fermentation, System biology and áÄĐ Bioprocess development
- ¤ÇÖÄÄèÇÄÁ×Íä¹¿ÖÄ.ÓÇÖ``ÑÄã¹¿ÖÄ¹Ó¿Ä´á¿ÄÄèÖÄÖä¹àÄ¹Ö¿ä»ãªèà»Ç¹ËÑÇ¼ÊÄã¹ÍÖÈÖÄàÄÖéÄ\$ÊÑµÇ¿ ¿ÑºÄÈÖÇÖ.ÄÖÄÑÄ
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