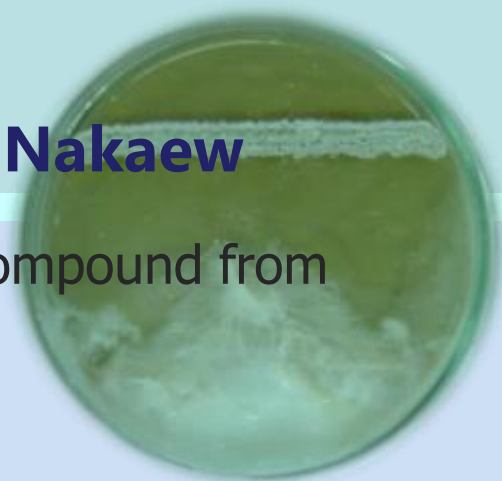


Research Area

ผศ. ดร. นารีลักษณ์ นาแก้ว

Assist. Prof. Dr. Nareeluk Nakaew

- Bioassay and Natural Product: Screening for bioactive compound from actinobacteria and possibility to apply for agricultural use
- Diversity of Endophytic and rhizospheric actinobacteria
- Biological control of plant pathogens



International Journal of Systematic and Evolutionary Microbiology (2017), 62, 3007–3012 DOI 10.1099/ijse.0.035220-0

Nonomuraea monospora sp. nov., an actinomycete isolated from cave soil in Thailand, and emended description of the genus *Nonomuraea*

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A novel actinomycete, designated strain PT708^T, was isolated from cave soil collected in Pha Tup Cave Forest Park, Nan province, Thailand. It produced compounds with antimicrobial and anticancer activities. Its chemotaxonomic properties were consistent with those of members of the genus *Nonomuraea*. The major mannosamine was MK-9(H₄), with minor amounts of MK-9(H₄), MK-9(H₄), MK-10(H₄) and MK-8(H₄). The polar lipid profile contained phosphatidylmonomethyl-ethanolamine, diphosphatidylglycerol, hydroxy-phosphatidylmonomethyl-ethanolamine, hydroxy-phosphatidylethanolamine, phosphatidylethanolamine, phosphatidylglycerol, phosphatidylinositol mannoside and phosphatidylinositol. The major fatty acids were iso-C₁₇:0, 10-methyl C₁₇:0, C₁₈:0 and C₂₂:0. Phylogenetic analysis based on 16S rRNA gene sequences indicated that strain PT708^T belonged to the genus *Nonomuraea* and was most closely related to *Nonomuraea rhizophila* YM 67092^T (98.50% sequence similarity) and *Nonomuraea rosea* GW 12687^T (98.30%). The genomic DNA G+C content of strain PT708^T was 73.3 mol%. Unlike the recognized members of the genus *Nonomuraea*, the novel strain formed single spores at the tips of aerial hyphae. Based on the phenotypic, phylogenetic and genotypic evidence, strain PT708^T represents a novel species of the genus *Nonomuraea* for which the name *Nonomuraea*

Utilization of rhizospheric *Streptomyces* for biological control of *Rigidoporus* sp. causing white root disease in rubber tree

Nareeluk Nakaew, Chakrapong Rangjaroen & Rungroch Sungthong

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Review

The genus *Nonomuraea*: A review of a rare actinomycete taxon for novel metabolites

Rungroch Sungthong, Nareeluk Nakaew

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Funding information

Abstract

The genus *Nonomuraea* is a rare actinomycete taxon with a long taxonomic history, while its generic description was recently emended. The genus is less known among the rare actinomycete genera as its taxonomic position was revised several times. It can be found in diverse ecological niches, while most of its

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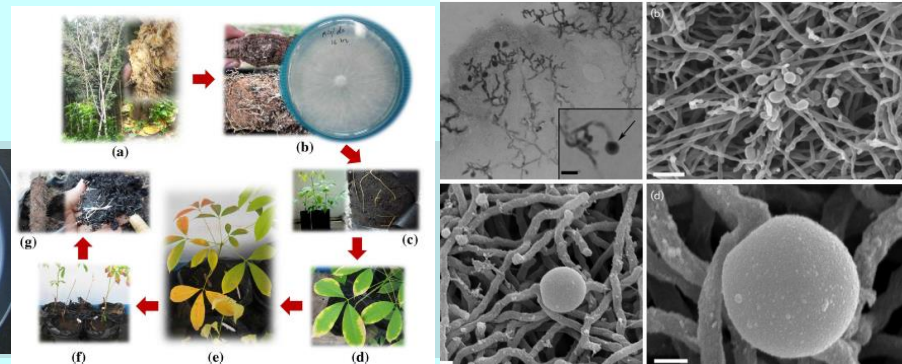
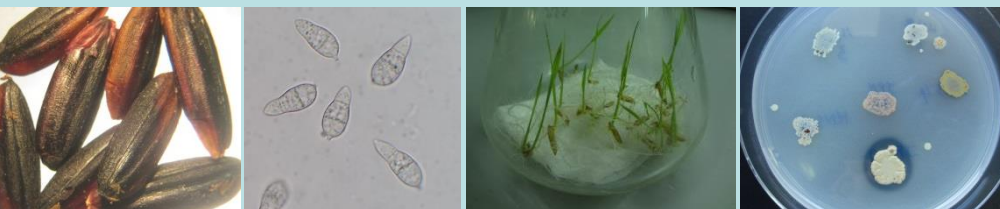
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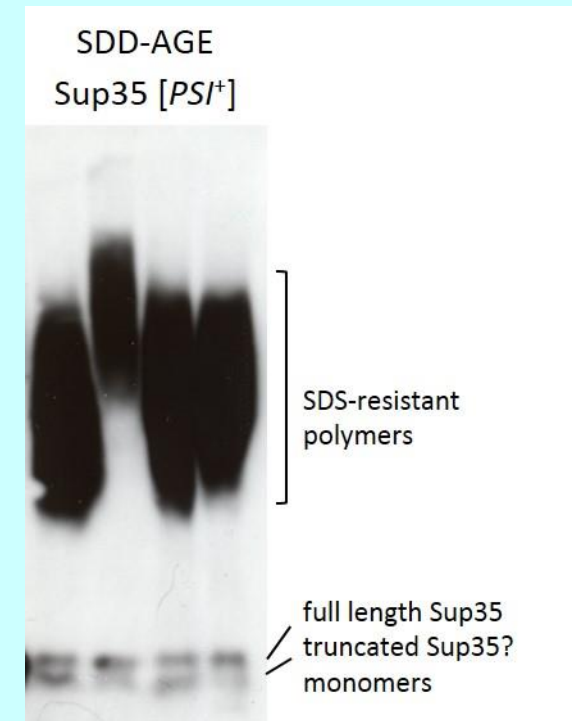
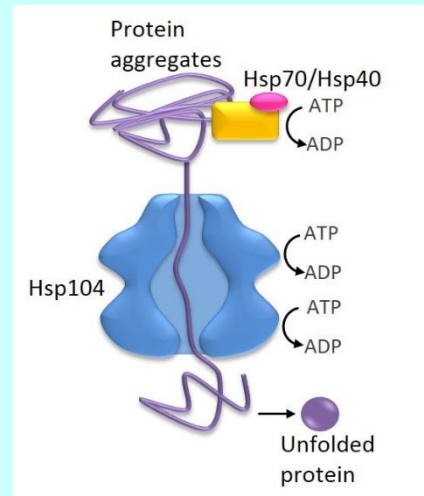
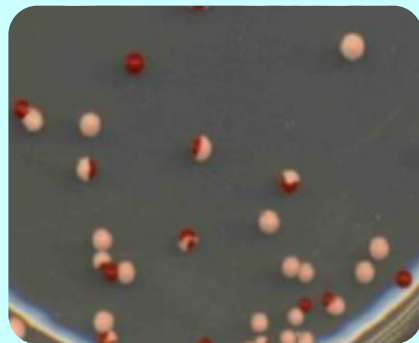
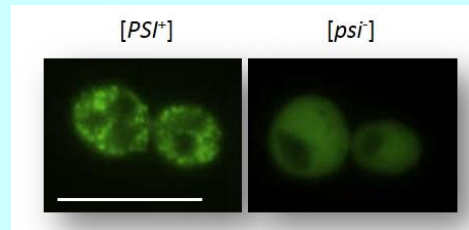
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- Yeast [*PSI*⁺] prions and yeast molecular chaperones
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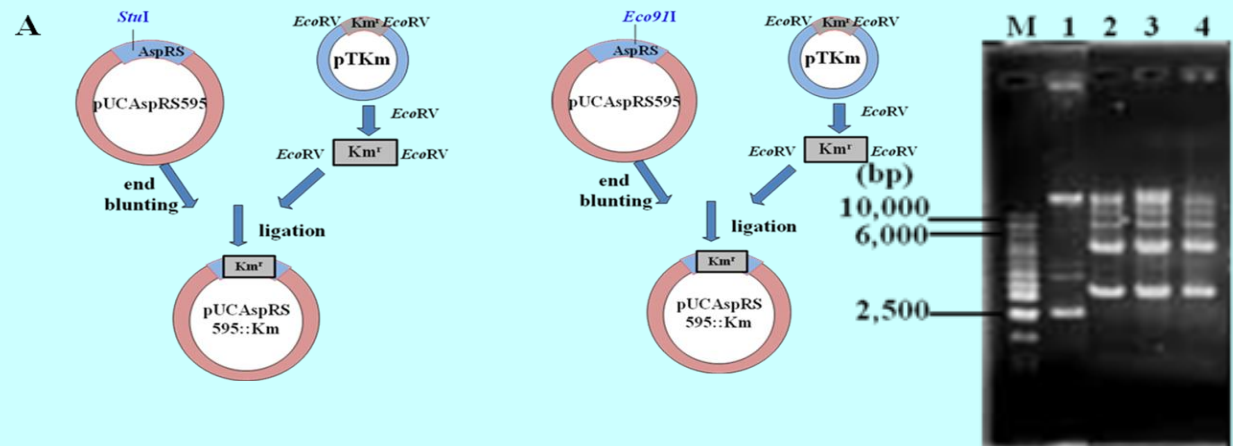


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- Molecular Biology
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- Bacterial Contamination in Food/Water/Environment
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