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# *Dietzia timorensis* sp. nov., isolated from soil

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An actinomycete strain, ID05-A0528$^T$, was isolated using the SDS-yeast extract pre-treatment method from soil under mahogany (*Swietenia mahogani*) trees in West Timor, Indonesia, and was examined by using a polyphasic taxonomic approach. Chemotaxonomic and phylogenetic characterizations demonstrated that the novel strain belongs to the genus *Dietzia*. 16S rRNA gene sequencing studies showed that the strain was related to *Dietzia cinnamea* (97.2%). Results of phenotypic and phylogenetic analyses determined that strain ID05-A0528$^T$ is different from the known species of the genus *Dietzia*. It is proposed that the isolate should be classified as a representative of a novel species of the genus *Dietzia*, with the name *Dietzia timorensis* sp. nov. The type strain is ID05-A0528$^T$ (=BTCC B-560$^T$ =NBRC 104184$^T$).

The genus *Dietzia* is a member of the suborder *Corynebacterineae* (Stackebrandt *et al.*, 1997) and encompasses eight species at the time of writing, including *Dietzia papillomatosis*, *Dietzia schimae* and *Dietzia cercidiphylli* (Jones *et al.*, 2008; Li *et al.*, 2008). Known species of the genus *Dietzia* were originally isolated from several sources, including clinical materials, such as an alkaline soda lake, a perianal swab, a drain pool of a fish-egg processing plant, soil, the skin of an immunocompetent patient, and plant tissue (Duckworth *et al.*, 1998; Yumoto *et al.*, 2002; Yassin *et al.*, 2006; Mayilraj *et al.*, 2006; Jones *et al.*, 2008; Li *et al.*, 2008). Some strains identified as representing species of the genus *Dietzia* show degradation of hydrocarbons, including *n*-alkanes (Rainey *et al.*, 1995; Chaillan *et al.*, 2004; Yumoto *et al.*, 2002). Additionally, Takeishi *et al.* (2006) reported xylanolytic strains of the genus *Dietzia* isolated from the hindgut and faeces of *Trypoxylus dichotomus* larvae. Hence, the discovery of additional species of this genus will help in understanding their ecological roles and provide bioresources for industrial applications, including bioremediation.

Strain ID05-A0528$^T$ was isolated from a soil sample collected under mahogany trees in West Timor. The SDS-yeast extract pre-treatment method (Hayakawa & Nonomura, 1989) and humic acid-vitamin agar (Hayakawa & Nonomura, 1987) containing nalidixic acid (20 mg $l^{-1}$) were used in the isolation. The pre-treatment method was used to enhance the spore germination of actinomycetes and to decrease the number of non-filamentous bacteria on the isolation plates. The aim of the present study was to determine the taxonomic position of isolate ID05-A0528$^T$ using a polyphasic approach.

The colonial properties of strain ID05-A0528$^T$ were recorded from a modified Bennett's agar plate (Jones, 1949) that had been incubated for 14 days at 28 °C. Gram-staining was examined by using Hucker's method (Gerhardt, 1981). Motility was examined in hanging drops by light microscopy using culture grown on Bennett's agar plates. Morphology of the cells was observed using light microscopy. Tests for aesculin and arbutin hydrolysis (Williams *et al.*, 1983), nitrate reduction (Gordon & Mihm,

The GenBank/EMBL/DDBJ accession number for the 16S rRNA gene sequence of strain ID05-A0528$^T$ is AB377289.

**Table 1.** Differential characteristics of strain ID05-A0528$^T$ and type strains of species of the genus *Dietzia*

Strains: 1, ID05-A0528$^T$; 2, *Dietzia cinnamea* IMMIB RIV-399$^T$; 3, *D. maris* DSM 43672$^T$; 4, *D. schimae* YIM 65001$^T$; 5, *D. psychralcaliphila* ILA-1$^T$; 6, *D. cercidiphylli* YIM 65002$^T$; 7, *D. natronolimnaea* CBS 107.95$^T$; 8, *D. kunjamensis* KT30-10$^T$; 9, *D. papillomatosis* N 1280$^T$. +, Positive; −, negative. Data for reference strains from Li *et al.* (2008).

| Characteristic | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Urea hydrolysis | − | + | + | − | + | + | + | − | + |
| Nitrate reduction | − | + | + | + | − | − | − | + | + |
| Growth temperature range (°C) | 10–37 | 22–45 | 10–45 | 10–45 | 10–37 | 10–37 | 10–37 | 10–37 | 10–37 |
| Utilization as sole carbon source | | | | | | | | | |
| D-Adonitol | + | − | − | − | + | − | − | − | + |
| L-Arabinose | + | − | − | − | − | + | − | − | + |
| Cellobiose | + | − | − | + | + | − | + | + | + |
| L-Fucose | + | + | − | − | − | − | − | + | + |
| Inositol | + | − | − | − | + | − | − | − | + |
| Maltose | + | + | + | − | + | + | + | − | + |
| Raffinose | + | − | − | − | + | − | + | + | + |
| Salicin | + | + | − | − | − | − | − | − | + |
| Trehalose | + | − | − | − | + | − | + | + | + |
| D-Tagatose | + | + | − | − | − | + | − | − | + |

Aerobic, Gram-positive, non-motile actinomycete that forms circular, convex, glistening, moderately orange-yellow colonies. Cells are rod- and coccoid-shaped. Diffusible pigments are not produced. Aesculin is hydrolysed. Nitrate is not reduced. Arbutin and urea are not hydrolysed. Does not degrade adenine, casein, elastin, hypoxanthine, testosterone, tyrosine, uric acid or xanthine. Grows at 10, 15, 28 and 37 °C, but does not grow at 5 or 45 °C. Growth occurs in the presence of 0–7 % NaCl (w/v). Utilizes aesculin, cellobiose, D-fructose, D-glucose, glycerol, lactose, D-mannose, sucrose, D-adonitol, amygdalin, L-arabinose, D-arabinose, L-arabitol, D-arabitol, arbutin, dulcitol, erythritol, L-fucose, D-fucose, D-galactose, gentiobiose, glycogen, inositol, inulin, D-lyxose, maltose, D-mannitol, melezitose, melibiose, methyl α-D-glucopyranoside, methyl α-D-mannopyranoside, methyl β-D-xylopyranoside, *N*-acetylglucosamine, potassium gluconate, potassium 2-ketogluconate, potassium 5-ketogluconate, raffinose, L-rhamnose, D-ribose, salicin, D-sorbitol, L-sorbose, starch, D-tagatose, trehalose, turanose, xylitol, L-xylose and D-xylose. Contains *meso*-diaminopimelic acids, and arabinose and galactose are present in whole-cell hydrolysates. The acyl type of the glycan chain of the peptidoglycan is acetyl. The major fatty acids are $C_{16:0}$, $C_{18:1}\omega9c$ and 10-methyl $C_{18:0}$. Mycolic acids are present. The polar lipid profile consists of phosphatidylglycerol and trace amounts of phosphatidylinositol. MK-8 ($H_2$) is the major menaquinone. The G+C content of DNA of the type strain is 65.5 mol%.

The type strain, ID05-A0528$^T$ (=BTCC B-560$^T$ =NBRC 104184$^T$), was isolated from a soil sample collected from under mahogany (*Swietenia mahogani*) trees on West Timor in Indonesia.

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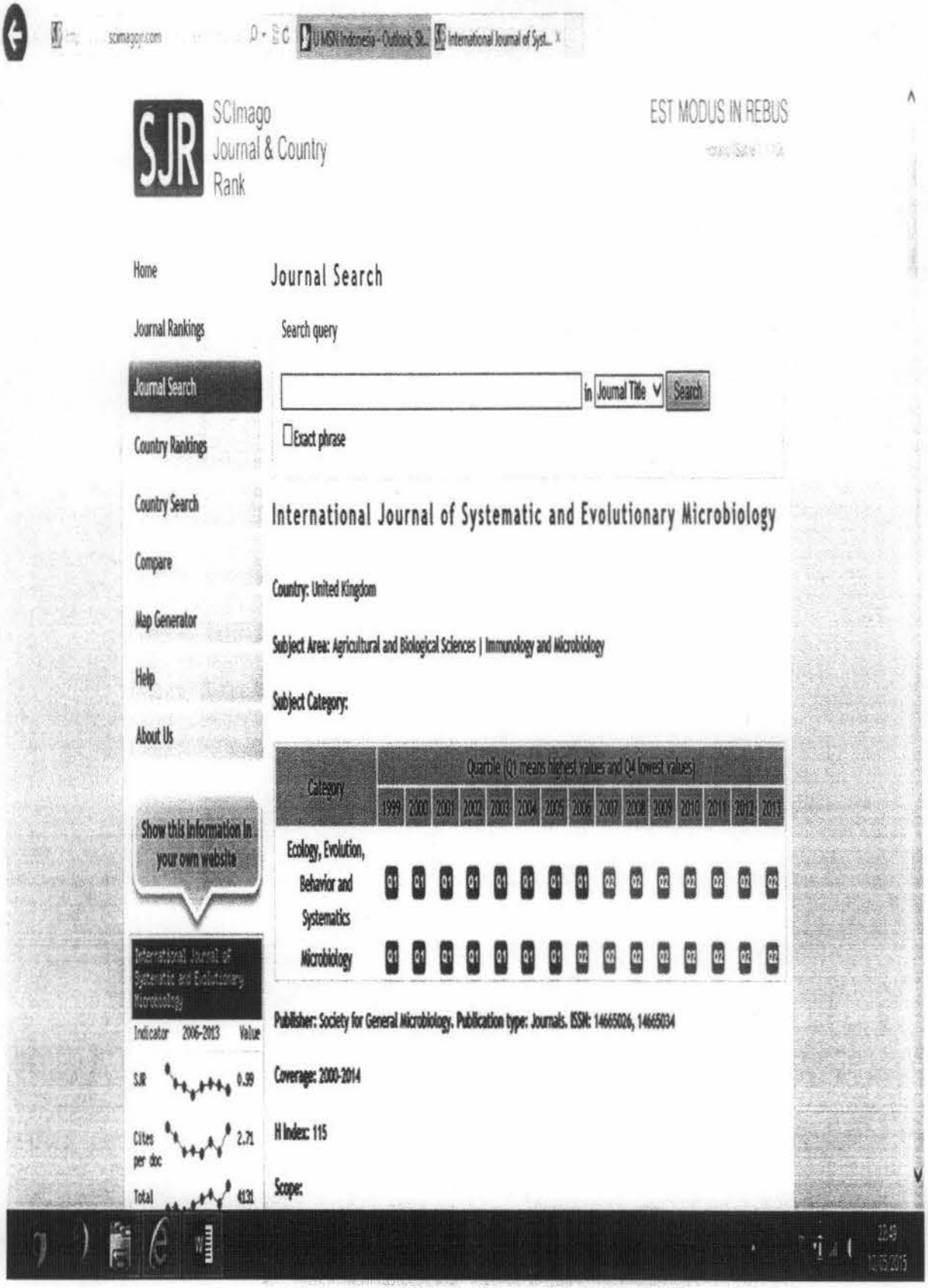

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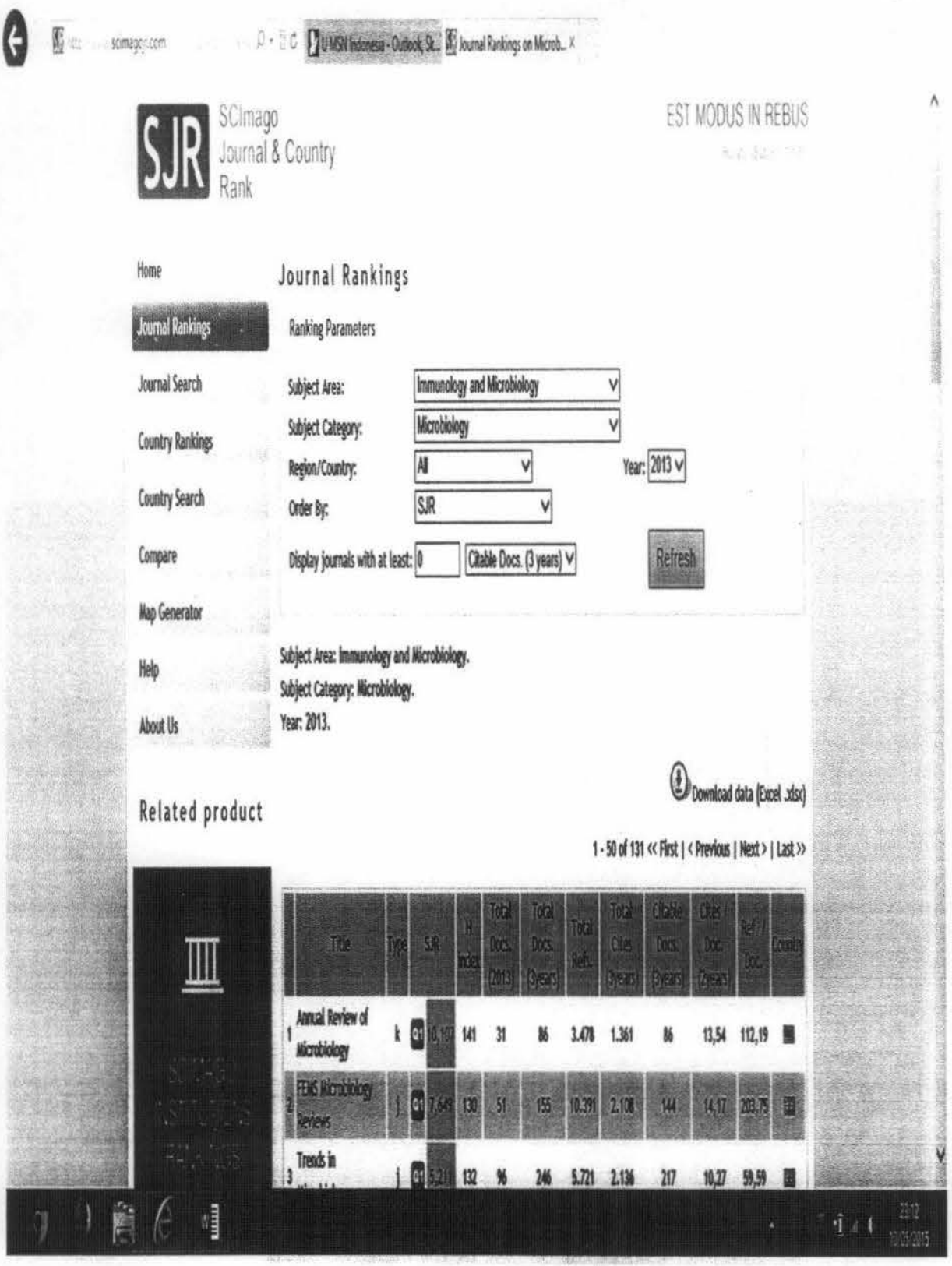
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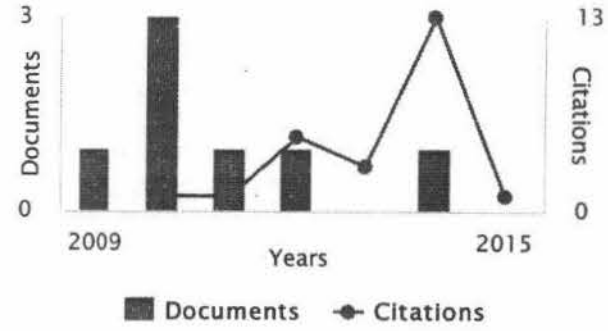


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