

SAJ NEWS

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Outline of SAJ: Activities and Membership

The Society for Actinomycetes Japan (SAJ) was established in 1955 and authorized as a scientific organization by Science Council of Japan in 1985. The Society for Applied Genetics of Actinomycetes, which was established in 1972, merged in SAJ in 1990. SAJ aims at promoting actinomycete researches as well as social and scientific exchanges between members domestically and internationally. The **Activities of SAJ** have included annual and regular scientific meetings, workshops and publications of *The Journal of Antibiotics* (the official journal, joint publication with Japan Antibiotics Research Association), *Actinomycetologica* (Newsletter) and laboratory manuals. Contributions to International Streptomyces Project (ISP) and International Symposium on Biology of Actinomycetes (ISBA) have also been SAJ's activities. In addition, SAJ have occasional special projects such as the publication of books related to actinomycetes: "Atlas of Actinomycetes, 1997", "Identification Manual of Actinomycetes, 2001" and "Digital Atlas of Actinomycetes, 2002" (<http://www0.nih.go.jp/saj/DigitalAtlas/>). These activities have been planned and organized by the board of directors with association of executive committees consisting of active members who belong to academic and nonacademic organizations.

The **SAJ Memberships** comprise **active members, student members, supporting members and honorary members**. Currently (as of Mar. 31, 2012), SAJ has about 330 active members including student members, 22 oversea members, 11 honorary members, 5 oversea honorary members, 1 special member and 12 supporting members. The SAJ members are allowed to join the scientific and social meetings or projects (regular and specific) of SAJ on a membership basis and to browse *The Journal of Antibiotics* from a link on the SAJ website and will receive each issue of *Actinomycetologica*, currently

published in June and December. Actinomycete researchers in foreign countries are welcome to join SAJ. For application of SAJ membership, please contact the SAJ secretariat (see below). Annual membership fees are currently 5,000 yen for active members, 3,000 yen for student members and 20,000 yen or more for supporting members (mainly companies), provided that the fees may be changed without advance announcement.

The current members (April 2012 - March 2014) of the Board of Directors are: Hiroyuki Osada (Chairperson; RIKEN), Masayuki Hayakawa (Vice Chairperson; Yamanashi Univ.), Kenji Ueda (Secretary General; Nihon Univ.), Kenji Arakawa (Hiroshima Univ.), Koji Ichinose (Musashino Univ.), Masayuki Igarashi (Inst. Microb. Chem.), Haruo Ikeda (Kitasato Univ.), Fumio Kato (Toho Univ.), Masaaki Kizuka (Daiichi Sankyo RD Novare Co., Ltd.), Hideyuki Muramatsu (Astellas Res. Technol. Co., Ltd.), Susumu Okamoto (NFRI), Masahiro Sota (Nagase & Co., Ltd.), Ken-ichiro Suzuki (NITE), and Tomohiro Tamura (AIST).

The members of the Advisory Board are: Kunimoto Hotta, Kozo Ochi, Shinji Miyado, Yoko Takahashi, and Keiko Ochiai.

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To the young researchers who will be qualified through "Shu/Ha/Ri"

The board meeting of the Society of Actinomycetes Japan (SAJ) was held in April, 2012. At the meeting, I was elected to the Society's chairperson by the board members. The slogans of the new board are "make the SAJ as the site for sharing pleasure of science" and "reinforce the financial base of the SAJ". I would like to ask each member of this society to collaborate with us.

Taking this opportunity, I would like to present my viewpoint and thinking way that have been influenced by "kendo" (martial art) because I devoted myself to kendo since my junior high school student. One of my favorite doctrines of kendo is "Shu/Ha/Ri". It means "first obey the traditional wisdom, then digress from the tradition, and finally transcend the master."

Every year, I talk on the doctrine to new members joining up with my laboratory. "Shu" is the first step for the new faces (students) who enter in my laboratory. At first, the students must keep teaching of a teacher (a leader or a senior). The students must watch and hear well the teacher's actions and speeches. The students must behave like a sponge absorbing, or even stealing the technique, knowledge and even a thinking way of the teacher. If the students can share the viewpoint of validation criteria with the teacher, they can pass the first step. Most students will reach this level, when they enter the graduate course. However the students must not stop here; this is not a satisfying goal.

The students must study by themselves along with respecting and obeying to the teacher. According to the mastering the basic knowledge, the students can devise the technique and knowledge by themselves. The students move to

the next step, "Ha", if their level is smoothly advancing. When the students reach the "Ha" level, they have to try to test the methods that the teacher did not teach them previously. They may be almost at the stage of full mastership (the level of Ph.D. students and postdoctoral fellows). But self-satisfying thoughts preclude a success in science. They cannot point out problems if they do not study an established theory and the doctrine which ancient people got to know well. Only the students who passed the first step "Shu" can enter the second step, "Ha". If the students can add their own idea to the master's teaching, and they can break the original idea, they can move into the last step, "Ri".

In the "Ri" step, the students will separate from the teacher and will be allowed to establish a new school based on what they learned by themselves. Superior character of both the teacher and students is necessary to reach this step. The teacher must praise independence without envying talent of the students, and the students must make a desperate effort in order to survive in an unexplored path. It leads to prosperity of the society when the students are more frequently promoted than teachers are. In the Society of Actinomycetes Japan, all the members compete friendly and share "pleasure of the study on actinomycetes". SAJ offers the useful occasions to the society members through the annual meeting and biannual lectures.

I hope young researchers who enroll in this society will grow up according to "Shu/Ha/Ri". Such young researchers can bring this society to a prosperity.

Hiroyuki Osada
RIKEN Advanced Science Institute

List of new scientific names and nomenclatural changes in the class *Actinobacteria* validly published in 2011

NEW GENUS.

Allocatelliglobospora Lee and Lee 2011.

Type species: *Allocatelliglobospora scoriae*
Lee and Lee. 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 264-270.

Cells form well-developed, branched substrate
mycelium, on which short chains of non-motile
spores are arranged singly or in clusters. Aerial
mycelium is not produced. Globose bodies are
observed.

Diamino acid in cell wall: 3OH-DAP (A1 γ).

Whole cell sugar: Glc, Rham, Rib, Xyl, Ala, Gal
and Man.

Fatty acid: iso-C_{15:0} and C_{17:0}.

Isoprenoide quinone: MK-10(H₄).

Polar lipid: DPG, PE and PI.

DNA G+C content: 70 mol%.

A member of the family *Micromonosporaceae*.

Amnibacterium Kim and Lee 2011.

Type species: *Amnibacterium kyonggiense* Kim
and Lee 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 155-159.

Cells are short rods (0.15–0.20 μm × 0.25–0.30
 μm), non-motile.

Diamino acid in cell wall: 1-2,4-DAB.

Fatty acid: anteiso-C_{15:0} and iso-C_{16:0}.

Isoprenoide quinone: MK-11 and MK-12.

Polar lipid: PG and PLs.

DNA G+C content: 73 mol%.

A member of the family *Microbacteriaceae*.

Auraticoccus Alonso-Vega *et al.* 2011.

Type species: *Auraticoccus monumenti*
Alonso-Vega *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011,

61, 1098-1103.

Cells are coccoid shape, arranged in pairs or
clusters, non-motile and non-sporulating.

Diamino acid in cell wall: LL-DAP (A1 γ).

Whole cell sugar: Glc, Rham, Ala and Xyl .

Fatty acid: anteiso-C_{15:0}, iso-C_{15:0}, anteiso-C_{15:1},
anteiso-C_{17:0} and iso-C_{14:0}.

Isoprenoide quinone: MK-8(H₂), MK-9(H₂),
MK-9(H₄) and MK-9(H₀).

Polar lipid: PG, DPG, Ls, PLs, GLs and PGL.

DNA G+C content: 74 mol%.

A member of the family *Propionibacteriaceae*.

Auritidibacter Yassin *et al.* 2011.

Type species: *Auritidibacter ignavus* Yassin *et al.*
2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 223-230.

Cells are rod shape and non-spore-forming.

Diamino acid in cell wall: L-Lys (A4 α with the
linkage L-Lys–Gly–L-Glu).

Cell wall sugars: No characteristic sugars.

Fatty acid: iso-C_{15:0} and anteiso-C_{17:0}.

Isoprenoide quinone: MK-10.

Polar lipid: DPG, PG, PI and PL.

DNA G+C content: 60 mol%.

A member of the family *Micrococcaceae*.

Austwickia Hamada *et al.* 2011.

Type species: *Austwickia chelonae* (Masters *et al.*
1995) Hamada *et al.* 2011.

Reference: J. Gen. Appl. Microbiol., 2010, 56,
427-436.

Cells form branching mycelia to cocci. With
time, the mycelia are divided into cocci to short
rods. Forms bulb-tipped mycelia on R agar. Mo-
tile.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Fatty acid: C_{15:0}, C_{17:1} ω9c, C_{17:0} and C_{16:0}.
Isoprenoide quinone: MK-8(H₄), MK-8 and MK-8(H₂).
Polar lipid: DPG, PG, PI and lyso-PE.
DNA G+C content: 67 mol%.
A member of the family *Dermatophilaceae*.

Branchiibius Sugimoto *et al.* 2011.

Type species: *Branchiibius hedensis* Sugimoto *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1195-1200.

Cells are coccoid (0.7×0.9 μm), halotolerant, and non-motile.

Amino acid in cell wall: L-Lys, D-Ser, L-Ser, Gly, D-Glu and D-Ala.

Whole cell sugar: Gal, Man, Rham, Rib, Glc and Ala.

Fatty acid: C_{17:1} *cis*-9, C_{18:1} *cis*-9 and iso-C_{16:0}.

Isoprenoide quinone: MK-8(H₂) and MK-8(H₄).

Polar lipid: PI, PG, DPG and PL.

Mycolic acid: absent.

DNA G+C content: 68 mol%.

A member of the family *Dermacoccaceae*.

Calidifontibacter Ruckmani *et al.* 2011.

Type species: *Calidifontibacter indicus* Ruckmani *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2419-2424.

Cells are short rods and do not form endospores.

Diamino acid in cell wall: L-Lys (A4α with the linkage Lys–Gly–Ser–Asp).

Fatty acid: iso-C_{16:0}, followed by iso-C_{16:1} H and anteiso-C_{17:0}.

Isoprenoide quinone: MK-8(H₄).

Polar lipid: DPG, PG, PI, PIM and PS.

DNA G+C content: 77 mol%.

A member of the family *Dermacoccaceae*.

Flindersiella Kaewkla and Franco 2011.

Type species: *Flindersiella endophytica* Kaewkla and Franco 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2135-2140.

Substrate mycelium is branched with irregular thickness and fragments into short chains or aggregates. Spores are tiny rods on short chains that develop from aerial mycelium.

Diamino acid in cell wall: LL-DAP (A1γ).

Whole cell sugar: Rib, Glc and Rham.

Fatty acid: iso-C_{16:0}, anteiso-C_{17:0}, and anteiso-C_{15:0}.

Isoprenoide quinone: MK-10(H₆).

Polar lipid: DPG and PG.

DNA G+C content: 69 mol%.

A member of the family *Nocardioideaceae*.

Haloactinopolyspora Tang *et al.* 2011.

Type species: *Haloactinopolyspora alba* Tang *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 194-200.

Substrate mycelium fragments into rod-like elements, and the aerial mycelium has long spore chains and forms pseudosporangium-like, rhiziform spore aggregates at maturity.

Amino acid in cell wall: LL-DAP, Ala, Gly and Glu (A1γ).

Whole cell sugar: Glc, Gal, Man and Ala.

Fatty acid: iso-C_{16:0}, anteiso-C_{15:0} and anteiso-C_{17:0}.

Isoprenoide quinone: MK-9 (H₄).

Polar lipid: DPG, PI, PIM, PGL, PL and GL.

DNA G+C content: 70–71 mol%.

A member of the family *Jiangellaceae*.

Herbiconiux Behrendt *et al.* 2011

Type species: *Herbiconiux ginsengi* (Qiu *et al.* 2007) Behrendt *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1039-1047.

Cells are straight or curved, non-sporulating, non-motile rods.

Amino acid in cell wall: L- and D-DAB, Gly, Ala and threo-3-OH Glu.

Isoprenoide quinone: MK-11.

Fatty acid: cyclohexyl-C_{17:0}, anteiso-C_{15:0}, iso-C_{16:0} and anteiso-C_{17:0}.

Polar lipid: DPG, PG and GL.

DNA G+C content: 66 mol%.

A member of the family *Microbacteriaceae*.

Jishengella Xie *et al.* 2011.

Type species: *Jishengella endophytica* Xie *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1153-1159.

Cells form extensively branched substrate mycelia ~0.6 µm in diameter, which carry unevenly warty-surfaced spores ~0.8 µm in diameter. Non-motile.

Diamino acid in cell wall: *meso*-DAP (A1γ).

Whole cell sugar: Xyl, Man, Ala, Rib and Glc.

Fatty acid: 10-methyl-C_{17:0}, iso-C_{15:0}, iso-C_{16:0} and C_{17:1}ω8c.

Isoprenoide quinone: MK-9(H₄), MK-9(H₆), MK-9(H₈) and MK-10(H₄).

Polar lipid: PE, DPG, PIM and PS.

DNA G+C content: 72–73 mol%.

A member of the family *Micromonosporaceae*.

Miniimonas Ue *et al.* 2011.

Type species: *Miniimonas arenae* Ue *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 123-127.

Cells are non-motile, coccoid- to rod-shaped.

Amino acid in cell wall: Orn, Ser, Ala and Glu.

Whole cell sugar: Gal, Xyl and Rib.

Fatty acid: anteiso-C_{15:0} and C_{16:0}.

Isoprenoide quinone: MK-8(H₄).

Polar lipid: PG, DPG, PI and PL.

Acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 74 mol%.

A member of the family *Beutenbergiaceae*.

Mobilicoccus Hamada *et al.* 2011.

Type species: *Mobilicoccus pelagius* Hamada *et al.* 2011.

Reference: J. Gen. Appl. Microbiol., 2010, 56, 427-436.

Cells are coccus-shaped, non-sporulating and motile with peritrichous flagella.

Diamino acid in cell wall: *meso*-DAP.

Cell wall sugar: Rib and Man.

Fatty acid: C_{17:1}ω9c and C_{15:0}.

Isoprenoide quinone: MK-8(H₂).

Polar lipid: DPG, PG and PI.

DNA G+C content: 72 mol %.

A member of the family *Dermatophilaceae*.

Ornithinibacter Xiao *et al.* 2011.

Type species: *Ornithinibacter aureus* Xiao *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 659-664.

Cells are non-motile, non-spore-forming, branching hyphal forms.

Diamino acid in cell wall: L-Orn.

Fatty acid: iso-C_{18:1}ω9c, iso-C_{16:0}, iso-C_{15:0} and C_{17:0}.

Isoprenoide quinone: MK-8(H₄).

Polar lipid: PI, PE, PG, DPG and GL.

DNA G+C content: 70 mol%.

A member of the family *Intrasporangiaceae*.

Phytomonospora Li *et al.* 2011.

Type species: *Phytomonospora endophytica* Li *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2967-2973.

Cells form extensively branched substrate myce-

lium, which carries smooth-surfaced spores borne singly. Spores are non-motile. Aerial mycelium is not produced.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Whole cell sugar: Man, Rib, Gal and Glc.

Fatty acid: iso-C_{15:0}, anteiso-C_{15:0}, anteiso-C_{17:0}, iso-C_{17:0} and iso-C_{16:0}.

Isoprenoide quinone: MK-10(H₄), MK-10(H₂), MK-8(H₂), MK-9(H₂) and MK-10(H₆).

Phospholipid: DPG, PME, PC, PE, PI, PG and GL.

DNA G+C content: 70 mol%.

A member of the family *Micromonosporaceae*.

Piscicoccus Hamada *et al.* 2011.

Type species: *Piscicoccus intestinalis* Hamada *et al.* 2011.

Reference: J. Gen. Appl. Microbiol., 2010, 56, 427-436.

Cells are coccus-shaped, non-motile and non-sporulating. Grows in clusters or aggregates of coccoid.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Cell wall sugar: Rib and Man.

Fatty acid: C_{17:1} ω 9c, iso-C_{16:0} and iso-C_{14:0}.

Isoprenoide quinone: MK-8(H₄).

Polar lipid: PG, PI and lyso-PE.

DNA G+C content: 72 mol%.

A member of the family *Dermatophilaceae*.

Propioniciclava Sugawara *et al.* 2011.

Type species: *Propioniciclava tarda* Sugawara *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2298-2303.

Cells are non-motile, non-spore-forming and irregular rods. Ferments various carbohydrates and produces acetate and propionate from glucose.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Fatty acid: anteiso-C_{15:0} and C_{15:0} DMA.

Isoprenoide quinone: MK-9(H₄).

DNA G+C content: 69–70 mol%.

A member of the family *Propionibacteriaceae*.

Pseudokineococcus Jurado *et al.* 2011 .

Type species: *Pseudokineococcus lusitanus* Jurado *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2515-2519.

Cells are spherical, 1.0–1.5 μ m in diameter, motile with tufts of flagella and non-sporulating, and occur in pairs, in tetrads or in clusters.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Whole cell sugar: Glc, Rib, Rham and traces of Gal, Man and Xyl.

Fatty acid: anteiso-C_{15:0}.

Isoprenoide quinone: MK-9(H₂).

Polar lipid: PG, DPG and PI.

Mycolic acid: absent.

DNA G+C content: 77 mol%.

A member of the family *Kineosporiaceae*.

Spinactinospora Chang *et al.* 2011.

Type species: *Spinactinospora alkalitolerans* Chang *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2805-2810.

Aerial mycelium forms short or long chains of spores; spore surfaces are spiny. Substrate mycelium is branched with non-fragmenting hyphae.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Whole cell sugar: Rib and Glc.

Fatty acid: iso-C_{16:0}, anteiso-C_{17:0}, and C_{18:0}.

Isoprenoide quinone: MK-10(H₈), MK-10(H₆) and MK-9(H₈).

Polar lipid: DPG, PG, PC, PI and PGL.

DNA G+C content: 71 mol%.

A member of the family *Nocardiopsaceae*.

Trueperella Yassin *et al.* 2011.

Type species: *Trueperella pyogenes* (Glage 1903) Yassin *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Cells are non-motile, non-spore-forming coccobacilli and short rods that occur singly, in pairs (V, T and palisade formations) or in clusters. Cells vary in shape and size (0.2–0.9×0.3–2.5) in different media.

Diamino acid in cell wall: L-Lys (A5 α with the linkage L-Lys–L-Ala–L-Lys–D-Glu or L-Lys–L-Lys–D-Glu).

Whole cell sugar: Rham and Glc.

Fatty acid: C_{16:0}, C_{18:0} and C_{18:1 ω 9c}.

Isoprenoide quinone: MK-10(H₄).

Polar lipid: DPG, PG, PI and a PGL.

N-acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 56–66 mol%.

A member of the family *Actinomycetaceae*.

Yuhushiella Mao *et al.* 2011.

Type species: *Yuhushiella deserti* Mao *et al.* 2011.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 621-630.

Vegetative mycelium is straight to flexuous, smooth and branched, and form swelling and aggregation.

Diamino acid in cell wall: *meso*-DAP (A1 γ).

Whole cell sugar: Rib, Ala, Glc and Gal.

Fatty acid: C_{17:1 ω 6c}, C_{16:1 ω 7c}/iso-C_{15:0} 2-OH, C_{18:0}, C_{16:0}, anteiso-C_{17:0}.

Isoprenoide quinone: MK-9(H₄).

Polar lipid: DPG, PE, PME, PIM, PL and GNPL.

Acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 70 mol%.

A member of the family *Pseudonocardiaceae*.

NEWS PECIES AND SUBSPECIES.

Actinoallomurus oryzae Indananda *et al.* 2011.

Type strain: BCC 31373, GMKU 370, NBRC 105246.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 737-741.

Actinoalloteichus nanshanensis Xiang *et al.* 2011.

Type strain: CGMCC 4.5714, NBRC 106685, NEAU 119.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1165-1169.

Actinomadura apis Promnuan *et al.* 2011.

Type strain: IM17-1, JCM 16576, TISTR 1980.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2271-2277.

Actinomycetospora chibensis Tamura *et al.* 2011.

Type strain: KACC 14256, NBRC 103694, TT04-21.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.

Actinomycetospora chlora Tamura *et al.* 2011.

Type strain: KACC 14252, NBRC 105900, TT07I-57.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.

Actinomycetospora cinnamomea Tamura *et al.* 2011.

Type strain: IY07-53, KACC 14250, NBRC 105527.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.

- Actinomycetospora corticicola* Tamura *et al.* 2011.
Type strain: 014-5, KACC 14253, NBRC 103689.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.
- Actinomycetospora iriomotensis* Yamamura *et al.* 2011.
Type strain: IR73-Li102, KCTC 19783, NBRC 106365.
Reference: J. Antibiot. (Tokyo), 2011, 64, 289-292.
- Actinomycetospora lutea* Tamura *et al.* 2011.
Type strain: KACC 14254, NBRC 103690, TT00-04.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.
- Actinomycetospora rishiriensis* Yamamura *et al.* 2011.
Type strain: KCTC 19782, NBRC 106356, RI109-Li102.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2621-2625.
- Actinomycetospora straminea* Tamura *et al.* 2011.
Type strain: IY07-55, KACC 14251, NBRC 105528.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.
- Actinomycetospora succinea* Tamura *et al.* 2011.
Type strain: KACC 14255, NBRC 103691, TT00-49.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.
- Actinophytocola burenghanensis* Ara *et al.* 2011.
Type strain: MN08-A0203, NBRC 105883, VTCC D9-23.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1033-1038.
- Actinophytocola corallina* Ootoguro *et al.* 2011.
Type strain: BTCC B-674, ID06-A0464, NBRC 105525.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 834-838.
- Actinophytocola timorensis* Ootoguro *et al.* 2011.
Type strain: BTCC B-673, ID05-A0653, NBRC 105524.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 834-838.
- Actinophytocola xinjiangensis* Guo *et al.* 2011.
Type strain: CGMCC 4.4663, NBRC 106673, QAI160.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2928-2932.
- Actinoplanes ianthinogenes* (ex Coronelli *et al.* 1974) Tamura *et al.* 2011.
Type strain: A/1668, ATCC 21884, BCRC 13611, DSM 43864, IMSNU 20032, JCM 3249, KCTC 9347, KCTC 9592, NBRC 13996, NCIMB 12639, NRRL B-16720.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2916-2921.
- Actinopolymorpha pittospori* Kaewkla and Franco 2011.
Type strain: ACM 5288, DSM 45354, NRRL B-24810, PIP 143.

- Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2616-2620.
- Actinopolyspora alba* Tang *et al.* 2011.
Type strain: DSM 45004, KCTC 19119, YIM 90480.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1693-1698.
- Actinopolyspora erythraea* Tang *et al.* 2011.
Type strain: CCTCC M 208247, KCTC 19372, YIM 90600.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1693-1698.
- Actinopolyspora xinjiangensis* Guan *et al.* 2011.
Type strain: CCTCC AA 209080, KCTC 19656, TRM 40136.
Reference: Antonie Van Leeuwenhoek, 2010, 98, 447-453.
- Agrococcus carbonis* Dhanjal *et al.* 2011.
Type strain: DSM 22965, G4, MTCC 10213.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1253-1258.
- Agromyces flavus* Chen *et al.* 2011.
Type strain: CCM 7623, CPCC 202695, KCTC 19578.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1705-1709.
- Agromyces soli* Lee *et al.* 2011.
Type strain: JCM 16247, KCTC 19549, MJ21.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1286-1292.
- Agromyces tropicus* Thawai *et al.* 2011.
Type strain: BCC 34764, CM9-9, JCM 15672.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 605-609.
- Allocatelliglobospora scoriae* Lee and Lee 2011.
Type strain: DSM 45362, KCTC 19661, Sco-B14.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 264-270.
- Annibacterium kyonggiense* Kim and Lee 2011.
Type strain: JCM 16463, KEMC 51201-037, KSL51201-037.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 155-159.
- Amycolatopsis samaneae* Duangmal *et al.* 2011.
Type strain: BCC 35842, NBRC 106095, RM287, TISTR 1919.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 951-955.
- Amycolatopsis thailandensis* Chomchoei *et al.* 2011.
Type strain: BCC 38279, CMU-PLA07, JCM 16380.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 839-843.
- Arthrobacter cryotolerans* Ganzert *et al.* 2011.
Type strain: DSM 22826, LI3, NCCB 100315.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 979-984.
- Arthrobacter equi* Yassin *et al.* 2011.
Type strain: CCUG 59597, DSM 23395, IMMIB L-1606.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2089-2094.

- Arthrobacter livingstonensis* Ganzert *et al.* 2011.
Type strain: DSM 22825, LI2, NCCB 100314.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 979-984.
- Asanoa hainanensis* Xu *et al.* 2011.
Type strain: 210121, CGMCC 4.5593, DSM 45427.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2384-2388.
- Auraticoccus monumenti* Alonso-Vega *et al.* 2011.
Type strain: CECT 7672, DSM 23257, LMG 25551, MON 2.2.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1098-1103.
- Auritidibacter ignavus* Yassin *et al.* 2011.
Type strain: CCUG 57943, DSM 45359, IMMIB L-1656.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 223-230.
- Bifidobacterium actinocoloniiforme* Killer *et al.* 2011.
Type strain: CCM 7728, DSM 22766, LISLUCIII-P2.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1315-1321.
- Bifidobacterium bohemicum* Killer *et al.* 2011.
Type strain: CCM 7729, DSM 22767, JEM-LUCVIII-4.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1315-1321.
- Bifidobacterium kashiwanohense* Morita *et al.* 2011.
Type strain: DSM 21854, HM2-2, JCM 15439.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2610-2615.
- Brachybacterium saurashtrense* Gontia *et al.* 2011.
Type strain: DSM 23186, IMCC 252, JG 06.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2799-2804.
- Brachybacterium squillarum* Park *et al.* 2011.
Type strain: JCM 16464, KACC 14221, M-6-3.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1118-1122.
- Branchiibius hedensis* Sugimoto *et al.* 2011.
Type strain: DSM 22951, Mer 29717, NBRC 106121.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1195-1200.
- Calidifontibacter indicus* Ruckmani *et al.* 2011.
Type strain: DSM 22967, JCM 16038, MTCC 8338, PC IW02.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2419-2424.
- Corynebacterium humireducens* Wu *et al.* 2011.
Type strain: CGMCC 2452, DSM 45392, MFC-5, NBRC 106098.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 882-887.
- Corynebacterium nuruki* Shin *et al.* 2011.
Type strain: JCM 17162, KACC 15032, S6-4.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2430-2434.

- Cryobacterium arcticum*** Bajerski *et al.* 2011.
Type strain: DSM 22823, NCCB 100316, SK1.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1849-1853.
- Dactylosporangium tropicum*** Thawai *et al.* 2011.
Type strain: BCC 34760, JCM 15673, KB2-4.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2358-2362.
- Demequina aurantiaca*** Ue *et al.* 2011.
Type strain: KCTC 19745, MBIC 08347, NBRC 106265, YM12-102.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1322-1329.
- Demequina globuliformis*** Ue *et al.* 2011.
Type strain: KCTC 19747, MBIC 08349, NBRC 106266, YM24-125.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1322-1329.
- Demequina oxidasica*** Ue *et al.* 2011.
Type strain: KCTC 19746, MBIC 08346, NBRC 106264, YM05-1041.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1322-1329.
- Dietzia alimentaria*** Kim *et al.* 2011.
Type strain: 72, JCM 16360, KACC 21126.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2254-2258.
- Dietzia lutea*** Li *et al.* 2011.
Type strain: CCTCC AA 207008, DSM 45074, KCTC 19232, YIM 80766.
Reference: Syst. Appl. Microbiol., 2009, 32, 118-123.
- Flindersiella endophytica*** Kaewkla and Franco 2011.
Type strain: ACM 5289, DSM 45355, EUM 378.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2135-2140.
- Frondehabitans cladoniiphilus*** Cardinale *et al.* 2011.
Type strain: CafT13, DSM 23273, LMG 25550.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 3033-3038.
- Geodermatophilus ruber*** Zhang *et al.* 2011.
Type strain: CCM 7619, CPCC 201356, DSM 45317.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 190-193.
- Gordonia humi*** Kämpfer *et al.* 2011.
Type strain: CC-12301, CCM 7727, DSM 45298.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 65-70.
- Gordonia neofelifaecis*** Liu *et al.* 2011.
Type strain: AD-6, CCTCC AB-209144, NRRL B-59395.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 165-169.
- Haloactinopolyspora alba*** Tang *et al.* 2011.
Type strain: DSM 45211, KCTC 19409, YIM 93246.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 194-200.
- Herbiconiux solani*** Behrendt *et al.* 2011.
Type strain: DSM 19813, K134/01, LMG 24387, NBRC 106740.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1039-1047.

Herbidospora sakaeratensis Boondaeng *et al.* 2011.

Type strain: BCC 11662, DMKUA 205, NBRC 102641.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 777-780.

Isoptericola chiayiensis Tseng *et al.* 2011.

Type strain: 06182M-1, BCRC 16888, KCTC 19740.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1667-1670.

Jiangella muralis Kämpfer *et al.* 2011.

Type strain: 15-Je-017, CCM 7680, DSM 45357.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 128-131.

Jishengella endophytica Xie *et al.* 2011.

Type strain: 202201, CGMCC 4.5597, DSM 45430.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1153-1159.

Kocuria salsicia Yun *et al.* 2011.

Type strain: 104, JCM 16361, KACC 21128.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 286-289.

Leifsonia psychrotolerans Ganzert *et al.* 2011.

Type strain: DSM 22824, LI1, NCCB 100313.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1938-1943.

Leucobacter celer Shin *et al.* 2011.

Type strain: JCM 16465, KACC 14220, NAL101.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2353-2357.

Leucobacter chromiirensistens Sturm *et al.* 2011.

Type strain: CCOS 200, DSM 22788, JG 31.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 956-960.

Leucobacter exalbidus Ue 2011.

Type strain: DSM 22850, K-540B, NBRC 106062.

Reference: J. Gen. Appl. Microbiol., 2011, 57, 27-33.

Leucobacter salsicius Yun *et al.* 2011.

Type strain: JCM 16362, KACC 21127, M1-8.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 502-506.

Longispora fulva Shiratori-Takano *et al.* 2011.

Type strain: DSM 45356, KZ0017, NBRC 105670.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 804-809.

Marmoricola korecus Lee *et al.* 2011.

Type strain: DSM 22128, KCTC 19596, Sco-A36.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1628-1631.

Microbacterium arthrosphaerae Kämpfer *et al.* 2011.

Type strain: CC-VM-Y, CCM 7681, DSM 22421.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1334-1337.

Microbacterium mitrae Kim *et al.* 2011.

Type strain: JCM 16363, KACC 21129, M4-8.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 399-403.

- Micrococcus lactis*** Chittipurna *et al.* 2011.
Type strain: DSM 23694, DW152, MTCC10523.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2832-2836.
- Micromonospora humi*** Songsumanus *et al.* 2011.
Type strain: JCM 15292, P0402, PCU 315, TISTR 1883.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1176-1181.
- Micromonospora rhizosphaerae*** Wang *et al.* 2011.
Type strain: 211018, CGMCC 4.5599, DSM 45431.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 320-324.
- Miniimonas arenae*** Ue *et al.* 2011.
Type strain: KCTC 19750, MBIC 08348, NBRC 106267, YM18-15.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 123-127.
- Mobilicoccus pelagius*** Hamada *et al.* 2011.
Type strain: Aji5-31, DSM 22762, NBRC 104925.
Reference: J. Gen. Appl. Microbiol., 2010, 56, 427-436.
- Modestobacter marinus*** Xiao *et al.* 2011.
Type strain: 42H12-1, CGMCC 4.5581, DSM 45201.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1710-1714.
- Myceligeners halotolerans*** Wang *et al.* 2011.
Type strain: CCTCC AA 208063, DSM 21949, XJEEM 11063.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 974-978.
- Mycobacterium algericum*** Sahraoui *et al.* 2011.
Type strain: Bejaia, CIP 110121, DSM 45454, TBE 500028/10.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1870-1874.
- Mycobacterium europaeum*** Tortoli *et al.* 2011.
Type strain: CCUG 58464, DSM 45397, FI-95228.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1606-1611.
- Mycobacterium sherrisii*** van Ingen *et al.* 2011.
Type strain: 4773, ATCC BAA-832, DSM 45441.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1293-1298.
- Mycobacterium shinkuense*** Saito *et al.* 2011.
Type strain: CCUG 53584, GTC 2738, JCM 14233.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1927-1932.
- Nocardia artemisiae*** Zhao *et al.* 2011.
Type strain: CCTCC AA 209038, DSM 45379, YIM 65623.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2933-2937.
- Nocardia endophytica*** Xing *et al.* 2011.
Type strain: CCTCC AA 2010004, KCTC 19777, KLBMP 1256.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1854-1858.

Nocardia niwae Moser *et al.* 2011.

Type strain: CCUG 57756, DSM 45340, W9241.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 438-442.

Nocardioides caricicola Song *et al.* 2011.

Type strain: DSM 22177, KACC 13778, YC6903.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 105-109.

Nocardioides ginsengisegetis Im *et al.* 2011.

Type strain: DSM 21349, Gsoil 485, KACC 14269, KCTC 19469.

Reference: J. Microbiol., 2010, 48, 623-628.

Nocardioides hungaricus Tóth *et al.* 2011.

Type strain: 1RaM5-12, DSM 21673, NCAIM 02330.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 549-553.

Nocardioides iriomotensis Yamura *et al.* 2011.

Type strain: IR27-S3, KACC 14926, NBRC 105384.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2205-2209.

Nocardioides maradonensis Lee *et al.* 2011.

Type strain: DSM 19769, KCTC 19384, RP-B30.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1933-1937.

Nocardioides ultimimeridianus Lee *et al.* 2011.

Type strain: DSM 19768, KCTC 19368, RP-B26.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1933-1937.

Nocardiopsis arvandica Hamedi *et al.* 2011.

Type strain: CCUG 58831, DSM 45278, HM7, UTMC 00103.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1189-1194.

Nocardiopsis flavescens Fang *et al.* 2011.

Type strain: CGMCC 4.5723, JCM 17424, SA6.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2640-2645.

Nonomuraea endophytica Li *et al.* 2011.

Type strain: CCTCC AA 209037, DSM 45385, YIM 65601.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 757-761.

Nonomuraea maritima Xi *et al.* 2011.

Type strain: CGMCC 4.5681, FXJ7.203, NBRC 106687.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2740-2744.

Nonomuraea rhizophila Zhao *et al.* 2011.

Type strain: CCTCC AA 209044, DSM 45382, YIM 67092.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2141-2145.

Nonomuraea wenchangensis Wang *et al.* 2011.

Type strain: 210417, CGMCC 4.5598, DSM 45477.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1304-1308.

- Olsenella umbonata*** Kraatz *et al.* 2011.
Type strain: CCUG 58604, DSM 22620, JCM 16156, lac31.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 795-803.
- Ornithinibacter aureus*** Xiao *et al.* 2011.
Type strain: CGMCC 1.10341, DSM 23364, HB09001.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 659-664.
- Phycoccus cremeus*** Zhang *et al.* 2011.
Type strain: CGMCC 1.6963, NBRC 104261, V2M29.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 71-75.
- Phycoccus ginsenosidimutans*** Wang *et al.* 2011.
Type strain: BXN5-13, DSM 21006, KCTC 19419, LMG 24462.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 524-528.
- Phytomonospora endophytica*** Li *et al.* 2011.
Type strain: CCTCC AA 209041, DSM 45386, YIM 65646.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2967-2973.
- Piscicoccus intestinalis*** Hamada *et al.* 2011.
Type strain: DSM 22761, NBRC 104926, Ngc37-23.
Reference: J. Gen. Appl. Microbiol., 2010, 56, 427-436.
- Planosporangium mesophilum*** Cao *et al.* 2011.
Type strain: CCTCC AA 209049, KCTC 19779, YIM 48875.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1330-1333.
- Propioniciclava tarda*** Sugawara *et al.* 2011.
Type strain: DSM 22130, JCM 15804, WR061.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2298-2303.
- Pseudokineococcus lusitanus*** Jurado *et al.* 2011.
Type strain: CECT 7306, DSM 23768, LMG 24148, T2A-S27.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2515-2519.
- Pseudonocardia artemisiae*** Zhao *et al.* 2011.
Type strain: CCTCC AA 208081, DSM 45313, YIM 63587.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1061-1065.
- Pseudonocardia eucalypti*** Kaewkla and Franco 2011.
Type strain: ACM 5285, DSM 45351, EUM 374.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 742-746.
- Pseudonocardia khuvsgulensis*** Ara *et al.* 2011.
Type strain: MN08-A0297, NBRC 105886, VTCC D9-26.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 747-756.
- Pseudonocardia kunmingensis*** Zhao *et al.* 2011.
Type strain: CCTCC AA 208081, DSM 45301, YIM 63158.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2292-2297.

- Pseudonocardia mongoliensis*** Ara *et al.* 2011.
Type strain: MN08-A0270, NBRC 105885, VTCC D9-25.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 747-756.
- Saccharothrix variisporea*** corrig. (ex Tomita *et al.* 1977) Kim *et al.* 2011.
Type strain: ATCC 31203, DSM 43911, JCM 3273, NBRC 14104, NRRL B-16296.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 310-314.
- Scardovia wiggsiae*** Downes *et al.* 2011.
Type strain: C1A_55, CCUG 58090, DSM 22547.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 25-29.
- Serinicoccus chungangensis*** Traiwan *et al.* 2011.
Type strain: CAU 9536, CCUG 59777, KCTC 19774.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1299-1303.
- Serinicoccus profundi*** Xiao *et al.* 2011.
Type strain: 0714S6-1, CGMCC 4.5582, DSM 21363, MCCC 1A05965.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 16-19.
- Solirubrobacter ginsenosidimutans*** An *et al.* 2011.
Type strain: BXN5-15, KACC 20671, LMG 24459.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2606-2609.
- Sphaerisporangium krabiense*** Suriyachadkun *et al.* 2011.
Type strain: A-T 0308, BCC 21702, NBRC 107571.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2890-2894.
- Spinactinospora alkalitolerans*** Chang *et al.* 2011.
Type strain: CXB654, DSM 45414, LMG 25485.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2805-2810.
- Streptomyces aomiensis*** Nagai *et al.* 2011.
Type strain: KACC 14925, M24DS4, NBRC 106164.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 947-950.
- Streptomyces caeruleatus*** Zhu *et al.* 2011.
Type strain: CCTCC M 208213, GIMN4.002, NRRL B-24802.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 507-511.
- Streptomyces coacervatus*** Shibazaki *et al.* 2011.
Type strain: AS-0823, DSM 41983, IFM 11055, JCM 17138.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1073-1077.
- Streptomyces fenghuangensis*** Zhu *et al.* 2011.
Type strain: CCTCCM 208215, GIMN4.003, NRRL B-24801.
Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2811-2815.
- Streptomyces hyderabadensis*** Reddy *et al.* 2011.
Type strain: CCTCC AA 209024, OU-40, PCM

2692.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 76-80.

Streptomyces indicus Luo *et al.* 2011.

Type strain: CGMCC 4.5727, DSM 42001, IH32-1.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2712-2716.

Streptomyces lacticiproducens Zhu *et al.* 2011.

Type strain: CCTCC M208214, GIMN4.001, NRRL B-24800.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 35-39.

Streptomyces rubrus Khan *et al.* 2011.

Type strain: DSM 42030, NBRC 105046, Sp080513KE-34.

Reference: Environ. Microbiol., 2011, 13, 391-403.

Streptomyces samsunensis Sazak *et al.* 2011.

Type strain: DSM 42010, M1463, NRRL B-24803.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1309-1314.

Streptomyces sanyensis Sui *et al.* 2011.

Type strain: 219820, CGMCC 4.5626, DSM 42014.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1632-1637.

Streptomyces scopuliridis Farris *et al.* 2011.

Type strain: DSM 41917, NRRL B-24574, RB72.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2112-2116.

Streptomyces sparsus Jiang *et al.* 2011.

Type strain: CCTCC AA204019, DSM 41858, YIM 90018.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1601-1605.

Streptomyces spongiae Khan *et al.* 2011.

Type strain: DSM 42031, NBRC 106415, Sp080513SC-24.

Reference: Environ. Microbiol., 2011, 13, 391-403.

Streptomyces sundarbansensis Arumugam *et al.* 2011.

Type strain: DSM 42019, MS1/7, MTCC 10621.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2664-2669.

Streptomyces tacrolimicus Martínez-Castro *et al.* 2011.

Type strain: ATCC 55098, CECT 7664.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1084-1088.

Streptomyces youssoufiensis Hamdali *et al.* 2011.

Type strain: CCMM B709, DSM 41920, X4.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1104-1108.

Streptomyces zinciresistens Lin *et al.* 2011.

Type strain: ACCC 41871, CCNWNQ 0016, HAMBI 3107, K42.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 616-620.

Streptosporangium oxazolinicum Inahashi *et al.* 2011.

Type strain: JCM 17388, K07-0460.

Reference: J. Antibiot. (Tokyo), 2011, 64, 297-302.

Terrabacter carboxydivorans Kim *et al.* 2011.
Type strain: JCM 16259, KCCM 42922, PY2.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 482-486.

Terrabacter ginsenosidimutans An *et al.*
2011.
Type strain: Gsoil 3082, KCTC 19421.
Reference: Appl. Environ. Microbiol., 2010, 76,
5827-5836.

Tessaracoccus oleiagri Cai *et al.* 2011.
Type strain: CGMCC 1.9159, DSM 22955,
SL014B-20A1.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 1767-1775.

Virgisporangium aliadipatigenens Ootoguro *et al.*
2011.
Type strain: IR20-55, NBRC 105644.
Reference: Actinomycetologica, 2010, 24,
39-44.

Williamsia phyllosphaerae Kämpfer *et al.*
2011.
Type strain: C7, CCM 7855, CCUG 60465.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 2702-2705.

Yaniella fodinae Dhanjal *et al.* 2011.
Type strain: DSM 22966, G5, MTCC 9846.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 535-539.

Yuhushiella deserti Mao *et al.* 2011.
Type strain: CGMCC 4.5579, JCM 16584,
RA45.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 621-630.

Zhihengliuella aestuarii Baik *et al.* 2011.

Type strain: DY66, JCM 16364, KCTC 19557.
Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 1671-1676.

NEW COMBINATION.

Actinomadura rifamycini (Gauze *et al.* 1987)
Promnuan *et al.* 2011.

Type strain: ATCC 33264, DSM 43936, INA
1349, JCM 3309, KCTC 9248, NBRC 14183,
NCIMB 12768, NRRL B-16122, VKM
Ac-1085.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 2271-2277.

Actinoplanes octamycinicus (ex Gauze *et al.*,
1979) Tamura *et al.* 2011.

Type strain: ATCC 43632, INA 4041, JCM
9649, KCTC 9593, NBRC 14524.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 2916-2921.

Austwickia chelonae (Masters *et al.* 1995)
Hamada *et al.* 2011.

Type strain: ATCC 51576, CCUG 47447, CIP
104541, DSM 44178, JCM 9706, NBRC 105200,
W16.

Reference: J. Gen. Appl. Microbiol., 2010, 56,
427-436.

Herbiconiux ginsengi (Qiu *et al.* 2007)
Behrendt *et al.* 2011.

Type strain: CGMCC 4.3491, DSM 19088, JCM
13908, NBRC 104580, wged11.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 1039-1047.

Mycobacterium abscessus* subsp. *bolletii
(Adékambi *et al.* 2006) Leao *et al.* 2011.

Type strain: BD, CCUG 50184, CIP 108541,
JCM 15297.

Reference: Int. J. Syst. Evol. Microbiol., 2011,

61, 2311-2313.

Pseudokineococcus marinus (Lee 2006)

Jurado *et al.* 2011.

Type strain: KCCM 42250, KST3-3, NRRL B-24439.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2515-2519.

Rhodoglobus aureus (Reddy *et al.* 2003) An *et al.* 2011.

Type strain: CIP 107785, CMS 81y, DSM 15303, JCM 12762, MTCC 4657.

Reference: J. Gen. Appl. Microbiol., 2010, 56, 53-55.

Trueperella abortisuis (Azuma *et al.* 2009) Yassin *et al.* 2011.

Type strain: ATCC BAA-1522, DSM 19515, JCM 14813, Murakami.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Trueperella bernardiae (Funke *et al.* 1995) Yassin *et al.* 2011.

Type strain: CCUG 33419, CIP 104252, DSM 9152, LCDC 89-0504, LMG 18721.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Trueperella bialowiezensis (Lehnen *et al.* 2006) Yassin *et al.* 2011.

Type strain: 1(W3/01), DSM 17162, NCTC 13354.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Trueperella bonasi (Lehnen *et al.* 2006) Yassin *et al.* 2011.

Type strain: 2(W106/04), DSM 17163, NCTC 13355.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Trueperella pyogenes (Glage 1903) Yassin *et al.* 2011.

Type strain: ATCC 19411, C-100, CCUG 13230, CIP 103129, DSM 20630, LMG 16162, NCTC 5224.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

EMENDATION OF GENUS.

Actinomycetospora Jiang *et al.* 2008 emend. Tamura *et al.* 2011.

Type species: *Actinomycetospora Chiangmaiensis* Jiang *et al.* 2008.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1275-1280.

Actinopolyspora Gochnauer *et al.* 1975 (Approved Lists 1980) emend. Tang *et al.* 2011. .

Type species: *Actinopolyspora halophila* Gochnauer *et al.* 1975 (Approved Lists 1980).

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1693-1698.

Arcanobacterium Collins *et al.* 1983 emend. Yassin *et al.* 2011.

Type species: *Arcanobacterium haemolyticum* (ex Mac Lean *et al.* 1946) Collins *et al.* 1983.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1265-1274.

Asanoa Lee and Hah 2002 emend. Xu *et al.* 2011.

Type species: *Asanoa ferruginea* (Asano and Kawamoto 1986) Lee and Hah 2002.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2384-2388.

Citricoccus Altenburger *et al.* 2002 emend. Nielsen *et al.* 2011.

Type species: *Citricoccus muralis* Altenburger *et al.* 2002.

Reference: Antonie Van Leeuwenhoek, 2011, 99, 489-499.

Demequina Yi *et al.* 2007 emend. Ue *et al.* 2011.

Type species: *Demequina aestuarii* Yi *et al.* 2007.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1322-1329.

Frondehabitans Greene *et al.* 2009 emend. Cardinale *et al.* 2011.

Type species: *Frondehabitans australicus* (Zhang *et al.* 2007) Greene *et al.* 2009.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 3033-3038.

Longispora Matsumoto *et al.* 2003 emend. Shiratori-Takano *et al.* 2011.

Type species: *Longispora albida* Matsumoto *et al.* 2003.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 804-809.

Modestobacter Mevs *et al.* 2000 emend. Xiao *et al.* 2011.

Type species: *Modestobacter multiseptatus* Mevs *et al.* 2000.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 1710-1714.

Myceligerans Cui *et al.* 2004 emend. Wang *et al.* 2011.

Type species: *Myceligerans xiligouense* Cui *et al.* 2004.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 974-978.

Olsenella Dewhirst *et al.* 2001 emend. Kraatz *et al.* 2011.

Type species: *Olsenella uli* (Olsen *et al.* 1991) Dewhirst *et al.* 2001.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 795-803.

Phycoccus Lee 2006 emend. Zhang *et al.* 2011.

Type species: *Phycoccus jejuensis* Lee 2006.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 71-75.

Scardovia Jian and Dong 2002 emend. Downes *et al.* 2011.

Type species: *Scardovia inopinata* (Crociani *et al.* 1996) Jian and Dong 2002.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 25-29.

Serinicoccus Yi *et al.* 2004 emend. Xiao *et al.* 2011 emend. Traiwan *et al.* 2011.

Type species: *Serinicoccus marinus* Yi *et al.* 2004.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 16-19, Int. J. Syst. Evol. Microbiol., 2011, 61, 1299-1303.

EMENDATION OF SPECIES.

Mycobacterium abscessus (Moore and Frerichs 1953) Kusunoki and Ezaki 1992 emend. Leao *et al.* 2011.

Type strain: ATCC 19977, CCUG 20993, CIP 104536, DSM 44196, Hauduroy L948, JCM 13569, NCTC 13031, TMC 1543.

Reference: Int. J. Syst. Evol. Microbiol., 2011, 61, 2311-2313.

Olsenella profusa Dewhirst *et al.* 2001 emend. Kraatz *et al.* 2011.

Type strain: CCUG 45371, D315A-29.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 795-803.

Olsenella uli (Olsen *et al.* 1991) Dewhirst *et al.* 2001 emend. Kraatz *et al.* 2011.

Type strain: ATCC 49627, VPI D76D-27C.

Reference: Int. J. Syst. Evol. Microbiol., 2011,

61, 795-803.

Scardovia inopinata (Crociani *et al.* 1996)

Jian and Dong 2002 emend. Downes *et al.* 2011.

Type strain: B3109, DSM 10107.

Reference: Int. J. Syst. Evol. Microbiol., 2011,
61, 25-29.

51th Regular Colloquium

Date: Feb. 17 (Fri.), 2012

Place: Microbial Chemistry Research Center

Research Dept., Chugai Pharmaceutical Co.,
Ltd.)

Program:

1. “Analysis of the fumitremorgin biosynthetic pathway in human pathogen *Aspergillus fumigatus*.”

Naoki KATO (Chemical Biology Core Facility, RIKEN ASI)

2. “NA255: Anti-hepatitis C virus agent produced by *Fusarium incarnatum* and fermentation of NA808, a derivative of NA255.”

Yoshie NAGAHASHI (Research Div. Discovery

3. “Electrophysiological analysis of excretion of glutamic acid in *Corynebacterium glutamicum*.”

Hisashi KAWASAKI (Tokyo Denki University)

4. “Accumulation of cesium by soil microorganisms.”

Chikako Kuwahara¹, Yojiro Anzai², Fumio Kato² (¹Kanagawa Prefectural Institute of Public Health, ²Faculty of Pharmaceutical Sciences, Toho University)

The 2012 Annual Meeting of the Society for Actinomycetes Japan

Chair parson: Masahiro Natsume (Tokyo University of Agriculture and Technology)

The 2012 annual meeting of SAJ will be held in September 2012 in Tokyo, Japan. We look forward to welcoming you to participate in the meeting and to submit papers

Updated information will be provided on the SAJ Home Page: <http://www0.nih.go.jp/saj/index-e.html>

General Outline

Dates: September 6 (Thu) – 7 (Fri), 2012

Venue: Fuchu-no-mori Art Theater

1-12 Sengen-Cho, Fuchu 183-0001, Japan

TEL: +81-42-335-6211 <http://www.fuchu-cpf.or.jp/theater/>

Registration fee including abstracts:

SAJ member	8,000 yen (6,000 yen until June 16, 2012)
Student	4,000 yen (3,000 yen until June 16, 2012)
Non-member	10,000 yen (8,000 yen until June 16, 2012)
Abstracts only	2,000 yen

Registration procedure may be acceptable through the following e-mail address, effective from March 1st, 2012: saj2012@cc.tuat.ac.jp

Reception: September 6 (Thu), 2012 at Fuchu-no-mori Art Theater

Fee: SAJ member	10,000 yen (8,000 yen until June 16, 2012)
Student	6,000 yen (4,000 yen until June 16, 2012)
Non-member	10,000 yen (8,000 yen until June 16, 2012)

Scientific program:

An invited lecture, SAJ award lectures and contributing paper sessions will be arranged.

Submission of abstracts:

Abstracts for contributing paper should be submitted via an exclusive e-mail address (2012saj@cc.tuat.ac.jp) as an attachment file written by using MS Word[®].

Deadline for submission of abstracts: June 30, 2012

For further information contact:

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