

SAJ NEWS

Vol. 25, No. 1, 2011

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Outline of SAJ: Activities and Membership

The Society for Actinomycete 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://www.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, 2011), SAJ has about 358 active members including student members, 43 oversea members, 11 honorary members, 5 oversea honorary members, 1 special member and 15 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 re-

searchers 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 2010 - March 2012) of the Board of Directors are: TAKAHASHI, Yoko (Chairperson; Kitasato Univ.), KATO, Fumio (Vice Chairperson; Toho Univ.), KUZUYAMA, Tomohisa (Secretary General; Univ. Tokyo), GONOI, Tohru (Chiba Univ.), IGARASHI, Masayuki (Inst. Microb. Chem.), KIZUKA, Masaaki (Daiichi Sankyo Co., Ltd.), MURAMATSU, Hideyuki (Astellas Res. Technol. Co., Ltd.), NATSUME, Masahiro (Tokyo Univ. Agric. Technol.), OHNISHI, Yasuo (Univ. Tokyo), OKAMOTO, Susumu (NFRI), SAKAI, Takashi (Eisai Co., Ltd.), SUZUKI, Ken-ichiro (NITE), TAMURA, Tomohiko (NITE), TAMURA, Tomohiro (AIST), UEKI, Masashi (RIKEN).

The members of the Advisory Board are: HAYAKAWA, Masayuki (Univ. Yamanashi), IWAI, Yuzuru (Kitasato Inst.), NAKAJIMA, Mutsuyasu (formerly, Nihon Univ.), OCHIAI, Keiko (JST), YOKOTA, Akira (formerly, Univ. Tokyo).

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A new partnership between The Society for Actinomycetes Japan and The Journal of Antibiotics

The Society for Actinomycetes Japan (SAJ) has entered into a new and exciting partnership with The Journal of Antibiotics (JA), with the agreement of the Japan Antibiotics Research Association (JARA) and the Editorial Board of JA. This new endeavor offers great promise for the future and I would like to express my deepest gratitude to all associations and persons who have helped to accomplish this goal.

The SAJ first started as informal community of actinomycetologists in Japan, called 'Housenkin-Danwakai' in 1955. In 1985, based on this community, the Society of Actinomycetes, Japan was established and recognized as registered academic research organization by the Science Council of Japan. In the 55 years since its foundation, the society has been a center of active and extensive research, study, education and training activities of Japanese actinomycetologists. In addition to annual meetings and regularly held colloquia, the SAJ publishes its official journal "Actinomycetologica", in which many papers concerning taxonomy, ecology, isolation methods, metabolites, biochemistry, and related topics of actinomycetes are published.

Based on the long-standing history and achievements over the last 55 years, the SAJ decided to take the next step and approach JARA to partner with JA, and make it the SAJ's new, official English-language journal. This was a carefully considered decision. It was clear that the aims and ambitions of the SAJ and JA were closely aligned, which led to a long-standing friendship between the two organizations. Indeed, many papers from SAJ members were and are contributed to JA. A partnership was an attractive proposition, and the SAJ had long

considered the best way to collaborate with JA. The recent decision by JA to add a new section on Taxonomy and Ecology aligned the Journal's scope to 'Actinomycetologica'. This was an opportunity to extend our collaboration and led us to decide to make this important partnership with JA and make it the primary and official journal of the SAJ, while "Actinomycetologica" continues to exist as the SAJ's official newsletter.

We believe this partnership brings many advantages and benefits to both JA and the SAJ, and will optimize the power and impact of JA in the community of antibiotics and actinomycetes researchers in Japan and abroad. As an official partner of the journal we are very pleased that we can help the Journal's editorial and peer-review process by providing a Section Editor for the new Taxonomy and Ecology section. The SAJ will also provide editorial board members, and help other Section Editors evaluate taxonomical issues of submitted manuscripts.

I firmly believe that this new partnership will further promote scientific development and innovation in actinomycetes research. I would therefore encourage all members of SAJ and actinomycetologists around the world to actively support this collaboration as active contributor and enthusiastic reader of our new official journal The Journal of Antibiotics.

(This address has been reprinted from *The Journal of Antibiotics* (2011) **64**, 287.)

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List of new scientific names and nomenclatural changes in the class *Actinobacteria* validly published in 2010

NEW FAMILY

Euzebyaceae Kurahashi *et al.* 2010, fam. nov.

Type genus: *Euzebya* Kurahashi *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2314-2319.

Ruaniaceae Tang *et al.* 2010, fam. nov.

Type genus: *Ruania* Gu *et al.* 2007.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2113-2119.

NEW GENUS

Actinaurispora Thawai *et al.* 2010, gen. nov.

Type species: *Actinaurispora siamensis* Thawai *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1660-1666.

Form extensively branched substrate hyphae.

Single spores are formed on substrate hyphae.

Aerial mycelium is absent. Spores are non-motile.

Cell wall: Glu, Gly, Ala and *meso*-DAP.

Whole cell sugar: glucose, xylose, mannose and galactose.

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

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

Phospholipid: PE, DPG, PI and PIM.

N-acyl type of muramic acid: glycolyl.

Mycolic acid: absent.

DNA G+C content: 73 mol%.

A member of the family *Micromonosporaceae*, suborder *Micromonosporineae*.

Actinophytocola Indananda *et al.* 2010, gen. nov.

Type species: *Actinophytocola oryzae* Indananda *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010,

60, 1141-1146.

Non-fragmented substrate mycelium and aerial mycelium is produced. Cylindrical spores are produced on aerial mycelium, but no sporangium-like structures are observed.

Cell wall: *meso*-DAP, Ala and Glu.

Whole cell sugar: arabinose, galactose, mannose, rhamnose and ribose.

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

Isoprenoide quinone: MK-9(H₄).

Phospholipid: PE and hydro-PE.

N-acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 71 mol%.

A member of the family *Pseudonocardiaceae*, suborder *Pseudonocardineae*.

Alloactinosynnema Yuan *et al.* 2010, gen. nov.

Type species: *Alloactinosynnema album* Yuan *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 39-43.

Extensively branched substrate mycelium may fragment into rod-shaped elements. Aerial hyphae are produced, which differentiate into long chains of spores. The spore chains and aerial mycelium often aggregate into clusters. Structures resembling sporangia are produced.

Cell wall: *meso*-DAP.

Whole cell sugar: galactose and ribose.

Fatty acid: iso-C_{16:0} and iso-C_{16:1} H.

Isoprenoide quinone: MK-9(H₄).

Phospholipid: DPG, PG and PC.

Mycolic acid: absent.

DNA G+C content: 68 mol%.

A member of the family *Actinosynnemataceae*, suborder *Pseudonocardineae*.

Amycoliticoccus Wang *et al.* 2010, gen. nov.

Type species: *Amycoliticoccus subflavus* Wang

et al. 2010.

Reference: *Int. J. Syst. Evol. Microbiol.*, 2010, 60, 638-643.

Aerobic cocci without a flagellum. Spores are not present.

Cell wall: Ala, Glu, Met and His.

Whole cell sugar: arabinose, galactose, glucose and xylose.

Fatty acid: C_{16:0}, 10-methyl C_{17:0}, 10-methyl C_{18:0}, summed feature 3, C_{15:0}, C_{17:0} and C_{17:1}ω8c.

Isoprenoide quinone: MK-8 and MK-7.

Phospholipid: DPG, PE, PG, PC, PI and an unknown glucosamine-containing phospholipid.

Mycolic acid: absent.

DNA G+C content: 60 mol%.

A member of the family *Mycobacteriaceae*, suborder *Corynebacterineae*.

Angustibacter Tamura *et al.* 2010, gen. nov.

Type species: *Angustibacter luteus* Tamura *et al.* 2010.

Reference: *Int. J. Syst. Evol. Microbiol.*, 2010, 60, 2441-2445.

Cells are non-motile, non-spore-forming, facultatively anaerobic, catalase-positive cocci to rods.

Cell wall: *meso*-DAP, Ala and Glu.

Whole cell sugar: galactose, glucose and ribose.

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

Isoprenoide quinone: MK-9(H₄).

Phospholipid: DPG, PG, PI and PIM.

N-acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 71 mol%.

A member of the family *Kineosporiaceae*, suborder *Kineosporiineae*.

Chryseoglobus Baik *et al.* 2010, gen. nov.

Type species: *Chryseoglobus frigidaquae* Baik *et al.* 2010.

Reference: *Int. J. Syst. Evol. Microbiol.*, 2010, 60, 1311-1316.

Cells are aerobic, non-sporulating, motile, pleomorphic, short, slender rods.

Cell wall: D-Lys, Glu, Hsr, Ala and Gly.

Fatty acid: iso-C_{16:0}, anteiso-C_{15:0}, iso-C_{14:0} and C_{16:0}.

Isoprenoide quinone: MK-12, MK-13 and MK-14.

Phospholipid: DPG, PG and an unknown glycolipid.

N-acyl type of muramic acid: acetyl.

Mycolic acid: absent.

DNA G+C content: 68 mol%.

A member of the family *Microbacteriaceae*, suborder *Micrococcineae*.

Euzebya Kurahashi *et al.* 2010, gen. nov.

Type species: *Euzebya tangerina* Kurahashi *et al.* 2010.

Reference: *Int. J. Syst. Evol. Microbiol.*, 2010, 60, 2314-2319.

Cells are non-motile, non-endospore-forming rods.

Cell wall: Glu, Ala and *meso*-DAP.

Whole cell sugar: rhamnase and galactose.

Fatty acid: C_{16:1}ω7c, C_{16:0} and C_{17:1}ω8c.

Isoprenoide quinone: MK-9(H₄).

Phospholipid: PG.

N-acyl type of muramic acid: acetyl.

DNA G+C content: 68 mol%.

A member of the family *Euzebyaceae*, order *Euzebyales*.

Haloactinobacterium Tang *et al.* 2010, gen. nov.

Type species: *Haloactinobacterium album* Tang *et al.* 2010.

Reference: *Int. J. Syst. Evol. Microbiol.*, 2010, 60, 2113-2119.

Cells are aerobic, non-motile and moderately halophilic short rods. No rod-coccus life cycle. Facultatively anaerobic in the presence of KNO₃. Does not form endospores.

Cell wall: A4α (D-Ala, L-Ala, D-Glu, L-Glu and

L-Lys) with L-Lys–L-Glu as the interpeptide bridge.
Whole cell sugar: glucosamine, arabinose, mannose and two unknown sugars.
Fatty acid: anteiso-C_{15:0}, iso-C_{15:0} and anteiso-C_{17:0}.
Isoprenoide quinone: MK-8(H₄).
Phospholipid: DPG, PG, PI, an unknown phosphoglycolipid and an unknown phospholipid.
DNA G+C content: 68–69 mol%.
A member of the family *Ruaniaceae*, suborder *Micrococcineae*.

Haloechinothrix Tang *et al.* 2010, gen. nov.
Type species: *Haloechinothrix alba* Tang *et al.* 2010.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2154-2158.
Strictly aerobic, moderately halophilic, filamentous actinomycetes. Substrate mycelium fragments into rod-like elements and does not form chains of spores at maturity.
Cell wall: *meso*-DAP.
Whole cell sugar: glucose, glucosamine, mannose and an unknown sugar.
Fatty acid: iso-C_{16:0}.
Isoprenoide quinone: MK-8(H₄).
Phospholipid: DPG, PG, PE, PI, PIM and an unknown phospholipid.
DNA G+C content: 68 mol%.
A member of the suborder *Pseudonocardineae*.

Koreibacter Lee and Lee 2010, gen. nov.
Type species: *Koreibacter algae* Lee and Lee 2010.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1510-1515.
Cells are aerobic, non-motile rods.
Cell wall: A3α (Ala, Ser, Glu and Lys) with Lys–Ser as the interpeptide bridge.
Whole cell sugar: galactose.
Fatty acid: anteiso-C_{15:0}.

Isoprenoide quinone: MK-9(H₄).
Phospholipid: PG and PI.
DNA G+C content: 68 mol%.
A member of the suborder *Micrococcineae*.

Luteimicrobium Hamada *et al.* 2010, gen. nov.
Type species: *Luteimicrobium subarcticum* Hamada *et al.* 2010.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 796-800.
Cells exhibit a rod–coccus cycle and non-sporulating.
Cell wall: A4α (D-Ala, L-Ala, D-Glu and L-Lys) with L-Lys–D-Glu as the interpeptide bridge.
Fatty acid: anteiso-C_{15:0}.
Isoprenoide quinone: MK-8(H₂).
Phospholipid: DPG and PG.
DNA G+C content: 73 mol%.
A member of the suborder *Micrococcineae*, suborder *Micrococcineae*.

Luteipulveratus Ara *et al.* 2010, gen. nov.
Type species: *Luteipulveratus mongoliensis* Ara *et al.* 2010.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 574-579.
Cells are irregular coccoid- to short rod-shaped, and occur singly or in pairs, in short chains or small irregular clusters. Cells are non-motile and non-sporulating.
Cell wall: A4α (L-Lys, Ala, Asp, Glu and Ser).
Whole cell sugar: galactose, mannose, rhamnose, ribose and glucose.
Fatty acid: iso-C_{16:0}, anteiso-C_{17:0}, iso-C_{16:1} H, C_{17:1} ω_{9c} and C_{17:0} 10-methyl.
Isoprenoide quinone: MK-8(H₄) and MK-8(H₆).
Phospholipid: PG, DPG and PI.
Mycolic acid: absent.
DNA G+C content: 68 mol%.
A member of the family *Dermacoccaceae*, suborder *Micrococcineae*.

Marisediminicola Li *et al.* 2010, gen. nov.

Type species: *Marisediminicola antarctica* Li *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2535-2539.

Cells are motile, short rods. Neither substrate mycelium nor aerial mycelium is formed.

Cell wall: B2 β (Orn, Ala, Gly and Hsr) .

Fatty acid: anteiso-C₁₅:₀, iso-C₁₆:₀ and anteiso-C₁₇:₀.

Isoprenoide quinone: MK-10.

Phospholipid: DPG, PG and some glycolipids.

DNA G+C content: 67 mol%.

A member of the family *Microbacteriaceae*, Suborder *Micrococcineae*.

Murinocardiopsis Kampfer *et al.* 2010, gen. nov.

Type species: *Murinocardiopsis flavida* Kampfer *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1729-1734.

Form mycelium-like filaments. No aerial mycelium is formed.

Cell wall: *meso*-DAP.

Whole cell sugar: glucose.

Fatty acid: iso-C₁₆:₀, anteiso-C₁₇:₀ and C₁₈:₁ ω 9c.

Isoprenoide quinone: MK-10(H₄), MK-11(H₄), MK-12(H₂) and MK-10(H₈).

Phospholipid: PC, DPG, PG, PI and unknown lipids.

Mycolic acid: absent.

A member of the family *Nocardiopsaceae*, suborder *Streptosporangineae*.

Phytohabitans Inahashi *et al.* 2010, gen. nov.

Type species: *Phytohabitans suffuscus* Inahashi *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2652-2658.

Aerobic actinomycetes. Vegetative mycelia are branched and not fragmented. Spores are non-motile.

Cell wall: D-Glu, Gly, D-Ala, *meso*-DAP and L-Lys.

Whole cell sugar: galactose, glucose, mannose, ribose and xylose.

Fatty acid: anteiso-C₁₇:₀, iso-C₁₇:₀, iso-C₁₆:₀ and iso-C₁₅:₀.

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

Phospholipid: PE.

N-acyl type of muramic acid: glycolyl.

Mycolic acid: absent.

DNA G+C content: 73 mol%.

A member of the family *Micromonosporaceae*, suborder *Micromonosporineae*.

Tomitella Katayama *et al.* 2010, gen. nov.

Type species: *Tomitella biformata* Katayama *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2803-2807.

Cells are aerobic, non-spore-forming, irregular rods.

Cell wall: *meso*-DAP.

Whole cell sugar: arabinose and galactose.

Fatty acid: C₁₆:₁, C₁₆:₀, C₁₈:₁ and C₁₄:₀.

Isoprenoide quinone: MK-9(H₂).

Phospholipid: DPG, PE, PI, PIM and an unidentified glycolipid.

N-acyl type of muramic acid: glycolyl.

Mycolic acid: presence with between 42 and 52 carbon atoms.

DNA G+C content: 69 mol%.

A member of the suborder *Corynebacterineae*.

Yimella Tang *et al.* 2010, gen. nov.

Type species: *Yimella lutea* Tang *et al.* 2010.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 659-663.

Cells are coccoid, non-encapsulated, halotolerant, aerobic and facultatively anaerobic in the presence of KNO₃. They do not form endospores.

Cell wall: A4 α (Ala, Gly, Ser, Asp, Glu and Lys)

with L-Lys–L-Ser–D-Asp as the interpeptide bridge.

Whole cell sugar: galactose and fucose.

Fatty acid: iso-C₁₅:₀, anteiso-C₁₅:₀ and anteiso-C₁₇:₀.

Isoprenoide quinone: MK-8(H₄).

Phospholipid: DPG, PI, a glucosamine-containing phospholipid and an unknown phospholipid.

DNA G+C content: 65–66 mol%.

A member of the family *Dermacoccaceae*, suborder *Micrococcineae*.

NEWS PECIES AND SUBSPECIES

Actinaurispora siamensis Thawai *et al.* 2010, sp. nov.

Type strain: strain CM2-8 = BCC 34762 = JCM 15677.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1660-1666.

Actinoallomurus acaciae Thamchaipenet *et al.* 2010, sp. nov.

Type strain: strain GMKU 931 = BCC 28622 = NBRC 104354 = NRRL B-24610.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 554-559.

Actinokineospora baliensis Lisdiyanti *et al.* 2010, sp. nov.

Type strain: strain ID03-0561 = BTCC B-554 = NBRC 104211.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2331-2335.

Actinokineospora cianjurenensis Lisdiyanti *et al.* 2010, sp. nov.

Type strain: strain ID03-0810 = BTCC B-558 = NBRC 105526.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2331-2335.

Actinokineospora cibodasensis Lisdiyanti *et*

al. 2010, sp. nov.

Type strain: strain ID03-0748 = BTCC B-555 = NBRC 104212.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2331-2335.

Actinomadura scrupuli Lee and Lee 2010, sp. nov.

Type strain: strain R-Ac121 = DSM 45225 = KCTC 19488.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2647-2651.

Actinomadura sputi Yassin *et al.* 2010, sp. nov.

Type strain: strain IMMIB L-889 = CCUG 56589 = DSM 45233.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 149-153.

Actinomyces hominis Funke *et al.* 2010, sp. nov.

Type strain: strain 1094 = 7894GR = CCUG 57540 = DSM 22168.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1678-1681.

Actinomyces timonensis Renvoise *et al.* 2010, sp. nov.

Type strain: strain 7400942 = CCUG 55928 = CSUR P35.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1516-1521.

Actinophytocola oryzae Indananda *et al.* 2010, sp. nov.

Type strain: strain GMKU 367 = BCC 31372 = NBRC 105245.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1141-1146.

Actinoplanes terejensis Ara *et al.* 2010, sp. nov.

- Type strain: strain MN07-A0371 = NBRC 105297 = VTCC D9-10.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 919-927.
- Actinoplanes toevensis* Ara *et al.* 2010, sp. nov.
Type strain: strain MN07-A0368 = NBRC 105298 = VTCC D9-11.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 919-927.
- Actinopolymorpha cephalotaxi* Yuan *et al.* 2010, sp. nov.
Type strain: strain I06-2230 = 06-2230 = CCM 7466 = DSM 45117 = KCTC 19293.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 51-54.
- Aeromicrobium halocynthiae* Kim *et al.* 2010, sp. nov.
Type strain: strain KME 001 = JCM 15749 = KCCM 90079.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2793-2798.
- Agrococcus terreus* Zhang *et al.* 2010, sp. nov.
Type strain: strain DNG5 = CGMCC 1.6960 = NBRC 104260.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1897-1903.
- Agromyces atrinae* Park *et al.* 2010, sp. nov.
Type strain: strain P27 = JCM 15913 = KCTC 19593.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1056-1059.
- Agromyces bauzanensis* Zhang *et al.* 2010, sp. nov.
Type strain: strain BZ41 = CGMCC 1.8984 = DSM 22275.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2341-2345.
- Alloactinosynnema album* Yuan *et al.* 2010, sp. nov.
Type strain: strain 03-9939 = CCM 7461 = DSM 45114 = KCTC 19294.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 39-43.
- Amycolatopsis halophila* Tang *et al.* 2010, sp. nov.
Type strain: strain YIM 93223 = DSM 45216 = KCTC 19403.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1073-1078.
- Amycolatopsis helveola* Tamura *et al.* 2010, sp. nov.
Type strain: strain TT00-43 = KCTC 19329 = NBRC 103394.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2629-2633.
- Amycolatopsis pigmentata* Tamura *et al.* 2010, sp. nov.
Type strain: strain TT99-32 = KCTC 19330 = NBRC 103392.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2629-2633.
- Amycolatopsis tucumanensis* Albarracin *et al.* 2010, sp. nov.
Type strain: strain ABO = DSM 45259 = JCM 17017 = LMG 24814.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 397-401.
- Amycolatopsis xylanica* Chen *et al.* 2010, sp. nov.
Type strain: strain CPCC 202699 = CCM 7627 = DSM 45285 = KCTC 19581.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2124-2128.

- Amycolicococcus subflavus* Wang *et al.* 2010, sp. nov.
Type strain: strain DQS3-9A1 = CGMCC 4.3532 = DSM 45089.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 638-643.
- Angustibacter luteus* Tamura *et al.* 2010, sp. nov.
Type strain: strain TT07R-79 = KACC 14249 = NBRC 105387.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2441-2445.
- Arsenicococcus piscis* Hamada *et al.* 2010, sp. nov. (VL).
Type strain: strain Kis4-19 = DSM 22760 = NBRC 105830.
References: Int. J. Syst. Evol. Microbiol., 2010, 60, 469-472. Actinomycetologica, 2009, 23, 40-45.
- Arthrobacter alpinus* Zhang *et al.* 2010, sp. nov.
Type strain: strain S6-3 = CGMCC 1.8950 = DSM 22274.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2149-2153.
- Arthrobacter antarcticus* Pindi *et al.* 2010, sp. nov.
Type strain: strain SPC26 = LMG 24542 = NCCB 100228.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2263-2266.
- Bifidobacterium stercoris* Kim *et al.* 2010, sp. nov.
Type strain: strain Eg1 = JCM 15918 = KCTC 5756.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2823-2827.
- Brevibacterium pityocampae* Kati *et al.* 2010, sp. nov.
Type strain: strain Tp12 = DSM 21720 = NCCB 100255.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 312-316.
- Brevibacterium salitolerans* Guan *et al.* 2010, sp. nov.
Type strain: strain TRM 415 = CCTCC AB 208328 = JCM 15900 = KCTC 19616.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2991-2995.
- Brevibacterium sandarakinum* Kampfer *et al.* 2010, sp. nov.
Type strain: strain 01-Je-003 = CCM 7649 = DSM 22082.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 909-913.
- Chryseoglobus frigidaquae* Baik *et al.* 2010, sp. nov.
Type strain: strain CW1 = JCM 14730 = KCTC 13142.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1311-1316.
- Citricoccus parietis* Schafer *et al.* 2010, sp. nov.
Type strain: strain 02-Je-010 = CCM 7609 = CCUG 57388.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 271-274.
- Citricoccus zhacaiensis* Meng *et al.* 2010, sp. nov.
Type strain: strain FS24 = CGMCC 1.7064 = JCM 15136.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 495-499.
- Collinsella tanakaei* Nagai *et al.* 2010, sp.

- nov.
 Type strain: strain YIT 12063 = DSM 22478 = JCM 16071.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2639-2646.
- Corynebacterium canis*** Funke *et al.* 2010, sp. nov.
 Type strain: strain 1170 = CCUG 58627 = DSM 45402.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2544-2547.
- Corynebacterium marinum*** Du *et al.* 2010, sp. nov.
 Type strain: strain D7015 = 7015 = CGMCC 1.6998 = NRRL B-24779.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1944-1947.
- Corynebacterium mustelae*** Funke *et al.* 2010, sp. nov.
 Type strain: strain 3105 = CCUG 57279 = DSM 45274.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 871-873.
- Corynebacterium pilbarensis*** Aravena-Roman *et al.* 2010, sp. nov.
 Type strain: strain IMMIB WACC 658 = CCUG 57942 = DSM 45350.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1484-1487.
- Corynebacterium pyruviciproducens*** Tong *et al.* 2010, sp. nov.
 Type strain: strain 06-1773O = WAL 19168 = ATCC BAA-1742 = CCUG 57046.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1135-1140.
- Cryobacterium roopkundense*** Reddy *et al.* 2010, sp. nov.
 Type strain: strain RuGI7 = DSM 21065 = JCM 15131.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 866-870.
- Dactylosporangiumarangshiense*** Seo and Lee 2010, sp. nov.
 Type strain: strain DLS-44 = DSM 45260 = KCTC 19560.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1256-1260.
- Dactylosporangiumluridum*** Kim *et al.* 2010, sp. nov.
 Type strain: strain BK63 = DSM 45324 = KACC 20933 = NRRL B-24775.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1813-1823.
- Dactylosporangiumluteum*** Kim *et al.* 2010, sp. nov.
 Type strain: strain BK51 = DSM 45323 = KACC 20899 = NRRL B-24774.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1813-1823.
- Dactylosporangiummaewongense*** Chiara-phongphon *et al.* 2010, sp. nov.
 Type strain: strain MW2-25 = BCC 34832 = JCM 15933.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1200-1205.
- Dactylosporangiumsalmoneum*** (ex Celmer *et al.* 1978) Kim *et al.* 2010, sp. nov. (VP), nom. rev.
 Type strain: strain ATCC 31222 = DSM 43910 = JCM 3272 = NBRC 14103 = NRRL B-16294.
 Synonym: "*Dactylosporangium salmoneum*" Celmer *et al.* 1978.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1813-1823.

- Demequina salsinemoris*** Matsumoto *et al.* 2010, sp. nov.
 Type strain: strain KV-810 = DSM 22060 = NBRC 105323.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1206-1209.
- Dietzia aerolata*** Kampfer *et al.* 2010, sp. nov.
 Type strain: strain Sjl4a = CCM 7659 = DSM 45334.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 393-396.
- Dietzia timorensis*** Yamamura *et al.* 2010, sp. nov.
 Type strain: strain ID05-A0528 = BTCC B-560 = NBRC 104184.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 451-454.
- Enterorhabdus caecimuris*** Clavel *et al.* 2010, sp. nov.
 Type strain: strain B7 = CCUG 56815 = DSM 21839.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1527-1531.
- Euzebya tangerina*** Kurahashi *et al.* 2010, sp. nov.
 Type strain: strain F10 = KCTC 19736 = NBRC 105439.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2314-2319.
- Friedmanniella lucida*** Iwai *et al.* 2010, sp. nov.
 Type strain: strain FA2 = DSM 21742 = NBRC 104964.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 113-120.
- Friedmanniella luteola*** Iwai *et al.* 2010, sp. nov.
 Type strain: strain FA1 = DSM 21741 = NBRC 104963.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 113-120.
- Friedmanniella okinawensis*** Iwai *et al.* 2010, sp. nov.
 Type strain: strain FB1 = DSM 21744 = NBRC 104966.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 113-120.
- Friedmanniella sagamiharensis*** Iwai *et al.* 2010, sp. nov.
 Type strain: strain FB2 = DSM 21743 = NBRC 104965.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 113-120.
- Fronidhabitans peucedani*** Lee 2010, sp. nov.
 Type strain: strain RS-15 = DSM 22180 = KCTC 13435.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1740-1744.
- Georgenia halophila*** Tang *et al.* 2010, sp. nov.
 Type strain: strain YIM 93316 = CCTCC AB 208144 = DSM 21365.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1317-1321.
- Georgenia soli*** Kampfer *et al.* 2010, sp. nov.
 Type strain: strain CC-NMPT-T3 = CCM 7658 = DSM 21838.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1027-1030.
- Haloactinobacterium album*** Tang *et al.* 2010, sp. nov.
 Type strain: strain YIM 93306 = CCTCC AB 208069 = DSM 21368 = KCTC 19413.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 113-120.

- 60, 2113-2119.
Haloechinothrix alba Tang *et al.* 2010, sp. nov.
 Type strain: strain YIM 93221 = CCTCC AB 208140 = DSM 45207.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2154-2158.
- Herbidospora daliensis*** Tseng *et al.* 2010, sp. nov.
 Type strain: strain 0385M-1 = FIRDI 004 = BCRC 16876 = LMG 24336.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1168-1172.
- Herbidospora yilanensis*** Tseng *et al.* 2010, sp. nov.
 Type strain: strain 0351M-12 = FIRDI 003 = BCRC 16875 = LMG 24337.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1168-1172.
- Isoptericola jiangsuensis*** Wu *et al.* 2010, sp. nov.
 Type strain: strain CLG = DSM 21863 = CCTCC AB208287.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 904-908.
- Kocuria atrinae*** Park *et al.* 2010, sp. nov.
 Type strain: strain P30 = JCM 15914 = KCTC 19594.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 914-918.
- Kocuria koreensis*** Park *et al.* 2010, sp. nov.
 Type strain: strain P31 = JCM 15915 = KCTC 19595.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 140-143.
- Koreibacter algae*** Lee and Lee 2010, sp. nov.
 Type strain: strain DSW-2 = DSM 22126 = KCTC 13436.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1510-1515.
- Kribbella ginsengisoli*** Cui *et al.* 2010, sp. nov.
 Type strain: strain Gsoil 001 = DSM 17941 = JCM 16928 = KCTC 19134.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 364-368.
- Lechevalieria atacamensis*** Okoro *et al.* 2010, sp. nov.
 Type strain: strain C61 = CGMCC 4.5536 = NRRL B-24706.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 296-300.
- Lechevalieria deserti*** Okoro *et al.* 2010, sp. nov.
 Type strain: strain C68 = CGMCC 4.5535 = NRRL B-24707.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 296-300.
- Lechevalieria roselyniae*** Okoro *et al.* 2010, sp. nov.
 Type strain: strain C81 = CGMCC 4.5537 = NRRL B-24708.
 Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 296-300.
- Leifsonia lichenia*** An *et al.* 2010, sp. nov. (VL).
 Type strain: strain 2Sb = IAM 15426 = JCM 23226 = KCTC 13122.
 References: Int. J. Syst. Evol. Microbiol., 2010, 60, 1-2. J. Gen. Appl. Microbiol., 2009, 55, 339-343.
- Leifsonia soli*** Madhaiyan *et al.* 2010, sp. nov.
 Type strain: strain TG-S248 = JCM 15679 = LMG 24767.
 Reference: Int. J. Syst. Evol. Microbiol., 2010,

- 60, 1322-1327.
- Leucobacter aerolatus*** Martin *et al.* 2010, sp. nov.
Type strain: strain Sj 10 = CCM 7705 = DSM 22806.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2838-2842.
- Luteimicrobium subarcticum*** Hamada *et al.* 2010, sp. nov.
Type strain: strain R19-04 = DSM 22413 = NBRC 105647.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 796-800.
- Luteipulveratus mongoliensis*** Ara *et al.* 2010, sp. nov.
Type strain: strain MN07-A0370 = NBRC 105296 = VTCC D9-09.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 574-579.
- Marisediminicola antarctica*** Li *et al.* 2010, sp. nov.
Type strain: strain ZS314 = CCTCC AB 209077 = DSM 22350.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2535-2539.
- Marmoricola scoriae*** Lee and Lee 2010, sp. nov.
Type strain: strain Sco-D01 = DSM 22127 = KCTC 19597.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2135-2139.
- Microbacterium agarici*** Young *et al.* 2010, sp. nov.
Type strain: strain CC-SBCK-209 = CCM 7686 = DSM 21798.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 854-860.
- Microbacterium azadirachtae*** Madhaiyan *et al.* 2010, sp. nov.
Type strain: strain AI-S262 = JCM 15681 = KCTC 19668 = LMG 24772.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1687-1692.
- Microbacterium ginsengiterrae*** Kim *et al.* 2010, sp. nov.
Type strain: strain DCY37 = JCM 15516 = KCTC 19526.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2808-2812.
- Microbacterium humi*** Young *et al.* 2010, sp. nov.
Type strain: strain CC-12309 = CC-012309 = CCM 7687 = DSM 21799.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 854-860.
- Microbacterium lindanitolerans*** Lal *et al.* 2010, sp. nov.
Type strain: strain MNA2 = CCM 7585 = DSM 22422.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2634-2638.
- Microbacterium pseudoresistens*** Young *et al.* 2010, sp. nov.
Type strain: strain CC-5209 = CC-005209 = CCM 7688 = DSM 22185.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 854-860.
- Microbacterium radiodurans*** Zhang *et al.* 2010, sp. nov.
Type strain: strain GIMN 1.002 = CCTCC M208212 = NRRL B-24799.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2665-2670.
- Microbacterium soli*** Srinivasan *et al.* 2010, sp.

- nov.
Type strain: strain DCY 17 = JCM 17024 = KCTC 19237 = LMG 24010.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 478-483.
- Micrococcus terreus*** Zhang *et al.* 2010, sp. nov.
Type strain: strain V3M1 = CGMCC 1.7054 = NBRC 104258.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1897-1903.
- Micrococcus terreus*** Zhang *et al.* 2010, sp. nov.
Type strain: strain 12-Be-011 = CCM 7636 = DSM 22083.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2420-2423.
- Micrococcus terreus*** Zhang *et al.* 2010, sp. nov.
Type strain: strain CC-12602 = CC-012602 = CCM 7685 = DSM 21800.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 824-827.
- Micromonospora marina*** Tanasupawat *et al.* 2010, sp. nov.
Type strain: strain JSM1-1 = JCM 12870 = PCU 269 = TISTR 1566.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 648-652.
- Micromonospora pisi*** Garcia *et al.* 2010, sp. nov.
Type strain: strain GUI 15 = DSM 45175 = JCM 17025 = LMG 24546.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 331-337.
- Micromonospora tulbaghia*** Kirby and Meyers 2010, sp. nov.
Type strain: strain TVU1 = DSM 45142 = NRRL B-24576.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1328-1333.
- Murinocardiopsis flavida*** Kampfer *et al.* 2010, sp. nov.
Type strain: strain 14-Be-013 = CCM 7612 = DSM 45312.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1729-1734.
- Mycobacterium paraffinicum*** (ex Davis *et al.* 1956) Toney *et al.* 2010, sp. nov. (VP), nom. rev.
Type strain: strain ATCC 12670 = DSM 44181 = NCIMB 10420.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2307-2313.
- Mycobacterium paraseoulense*** Lee *et al.* 2010, sp. nov.
Type strain: strain 31118 = DSM 45000 = JCM 16952 = KCTC 19145.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 439-443.
- Nocardia callitridis*** Kaewkla and Franco 2010, sp. nov.
Type strain: strain CAP 290 = ACM 5287 = DSM 45353.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1532-1536.
- Nocardia mikamii*** Jannat-Khah *et al.* 2010, sp. nov.
Type strain: strain W8061 = DSM 45174 = JCM 15508.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2272-2276.
- Nocardioides daedukensis*** Yoon *et al.* 2010, sp. nov.

Type strain: strain MDN22 = CCUG 57505 = KCTC 19601.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1334-1338.

Nocardioides mesophilus Dastager *et al.* 2010, sp. nov.

Type strain: strain MSL-22 = DSM 19432 = KCTC 19310.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2288-2292.

Nocardioides panacisoli Cho *et al.* 2010, sp. nov.

Type strain: strain Gsoil 346 = DSM 21348 = JCM 16953 = KCTC 19470.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 387-392.

Nocardiopsis nikkonensis Yamamura *et al.* 2010, sp. nov.

Type strain: strain YU1183-22 = KCTC 19666 = NBRC 102170.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2967-2971.

Nocardiopsis sinuspersici Hamedi *et al.* 2010, sp. nov.

Type strain: strain HM6 = CCUG 57624 = DSM 45277 = UTMC 00102.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2346-2352.

Nonomuraea rosea Kampfer *et al.* 2010, sp. nov.

Type strain: strain GW 12687 = CCUG 56107 = DSM 45177.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1118-1124.

Phytohabitans suffuscus Inahashi *et al.* 2010, sp. nov.

Type strain: strain K07-0523 = DSM 45306 =

NBRC 105367.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2652-2658.

Planotetraspora kaengkrachanensis Suriyachadkun *et al.* 2010, sp. nov.

Type strain: strain A-T 0875 = BCC 24832 = NBRC 104272.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2076-2081.

Planotetraspora phitsanulokensis Suriyachadkun *et al.* 2010, sp. nov.

Type strain: strain A-T 1383 = BCC 26045 = NBRC 104273.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2076-2081.

Prauserella marina Wang *et al.* 2010, sp. nov.

Type strain: strain MS498 = CCTCC AA 208056 = DSM 45268.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 985-989.

Prauserella muralis Schafer *et al.* 2010, sp. nov.

Type strain: strain 05-Be-005 = CCM 7635 = CCUG 57426 = DSM 45305 = NRRL B-24780.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 287-290.

Promicromonospora umidemergens Martin *et al.* 2010, sp. nov.

Type strain: strain 09-Be-007 = CCM 7634 = DSM 22081.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 537-541.

Pseudoclavibacter chungangensis Cho *et al.* 2010, sp. nov.

Type strain: strain CAU 59 = CCUG 58142 = KCTC 22691.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1672-1677.

Pseudonocardia adelaidensis Kaewkla and Franco 2010, sp. nov.

Type strain: strain EUM 221 = ACM 5286 = DSM 45352.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2818-2822.

Pseudonocardia babensis Sakiyama *et al.* 2010, sp. nov.

Type strain: strain VN05A0561 = NBRC 105793 = VTCC-A-1757.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2336-2340.

Pseudonocardia tropica Qin *et al.* 2010, sp. nov.

Type strain: strain YIM 61452 = CCTCC AA 208018 = DSM 45199.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2524-2528.

Rhodococcus jialingiae Wang *et al.* 2010, sp. nov.

Type strain: strain djl-6-2 = CCTCC AB 208292 = DSM 45257 = JCM 16906.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 378-381.

Saccharomonospora marina Liu *et al.* 2010, sp. nov.

Type strain: strain XMU15 = 15 = CCTCC AA 209048 = KCTC 19701.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1854-1857.

Saccharopolyspora gloriosae Qin *et al.* 2010, sp. nov.

Type strain: strain YIM 60513 = CCTCC AA 207006 = KCTC 19243.

Reference: Int. J. Syst. Evol. Microbiol., 2010,

60, 1147-1151.

Saccharopolyspora phatthalungensis Duangmal *et al.* 2010, sp. nov.

Type strain: strain SR8.15 = BCC 35844 = JCM 16708 = NRRL B-24798 = TISTR 1921.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1904-1908.

Slackia equolifaciens Jin *et al.* 2010, sp. nov.

Type strain: strain DZE = CCUG 58231 = JCM 16059.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1721-1724.

Slackia piriformis Nagai *et al.* 2010, sp. nov.

Type strain: strain YIT 12062 = DSM 22477 = JCM 16070.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2639-2646.

Streptomyces aldersoniae Kumar and Goodfellow 2010, sp. nov.

Type strain: strain DSM 41909 = NRRL 18513.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.

Streptomyces artemisiae Zhao *et al.* 2010, sp. nov.

Type strain: strain YIM 63135 = CCTCC AA 208059 = DSM 41953.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 27-32.

Streptomyces ascomycinicus Kumar and Goodfellow 2010, sp. nov.

Type strain: strain DSM 40822 = JCM 4964 = NBRC 13981.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.

Streptomyces haliclona Khan *et al.* 2010, sp. nov.

Type strain: strain Sp080513SC-31 = DSM

- 41970 = NBRC 105049.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2775-2779.
- Streptomyces iranensis*** Hamedi *et al.* 2010, sp. nov.
Type strain: strain HM 35 = CCUG 57623 = DSM 41954.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1504-1509.
- Streptomyces marinus*** Khan *et al.* 2010, sp. nov.
Type strain: strain Sp080513GE-26 = DSM 41968 = NBRC 105047.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2775-2779.
- Streptomyces milbemycinicus*** Kumar and Goodfellow 2010, sp. nov.
Type strain: strain DSM 41911 = NRRL 5739.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.
- Streptomyces osmaniensis*** Reddy *et al.* 2010, sp. nov.
Type strain: strain OU-63 = CCTCC AA209025 = PCM 2690.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1755-1759.
- Streptomyces tateyamensis*** Khan *et al.* 2010, sp. nov.
Type strain: strain Sp080513SC-30 = DSM 41969 = NBRC 105048.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2775-2779.
- Streptomyces wellingtoniae*** Kumar and Goodfellow 2010, sp. nov.
Type strain: strain DSM 40632 = NRRL B-1503.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.
- Terrabacter aeriphilus*** Weon *et al.* 2010, sp. nov.
Type strain: strain 5414T-18 = DSM 18563 = KACC 20693.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1130-1134.
- Tomitella biformata*** Katayama *et al.* 2010, sp. nov.
Type strain: strain AHU1821 = DSM 45403 = NBRC 106253.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2803-2807.
- Tsukamurella soli*** Weon *et al.* 2010, sp. nov.
Type strain: strain JS18-1 = DSM 45046 = KACC 20764.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1667-1671.
- Verrucosispora sediminis*** Dai *et al.* 2010, sp. nov.
Type strain: strain MS426 = CGMCC 4.3550 = JCM 15670.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1807-1812.
- Williamsia faeni*** Jones *et al.* 2010, sp. nov.
Type strain: strain N1350 = DSM 45372 = NCIMB 14575 = NRRL B-24794.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 2548-2551.
- Yimella lutea*** Tang *et al.* 2010, sp. nov.
Type strain: strain YIM 45900 = CCTCC AB 207007 = DSM 19828 = JCM 16960 = KCTC 19231.
Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 659-663.

NEW COMBINATION

Actinokineospora fastidiosa (Henssen *et al.*

1987) Labeda et al. 2010, comb. nov.
Type strain: strain ATCC 31181 = DSM 43855 = JCM 3276 = NBRC 14105 = NRRL B-16697 = VKM Ac-1419.

Basonym: *Amycolatopsis fastidiosa* (ex Celmer et al. 1977) Henssen et al. 1987.

Other synonym: "*Pseudonocardia fastidiosa*" Celmer et al. 1977.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1444-1449.

Corynebacterium stationis (ZoBell and Upham 1944) Bernard et al. 2010, comb. nov.
Type strain: strain ATCC 14403 = CCUG 43497 = CIP 104228 = DSM 20302 = JCM 11611 = NBRC 12144 = VKM B-1228.

Basonym: *Brevibacterium stationis* (ZoBell and Upham 1944) Breed 1953 (Approved Lists 1980).

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 874-879.

Streptomyces angustmyceticus (Yuntsen et al. 1956) Kumar and Goodfellow 2010, comb. nov.

Type strain: strain ATCC 15484 = DSM 41683 = JCM 4053 = KCTC 1089 = NBRC 3934 = NRRL B-2347 = NRRL B-3306.

Basonym: *Streptomyces hygroscopicus* subsp. *angustmyceticus* Yuntsen et al. 1956 (Approved Lists 1980).

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.

Streptomyces decoyicus (Vavra et al. 1959) Kumar and Goodfellow 2010, comb. nov.

Type strain: strain CIP 106836 = DSM 41427 = IFO (now NBRC) 13977 = JCM 4550 = NCIMB 10502 = NCIMB 9752 = NRRL 2666.

Basonym: *Streptomyces hygroscopicus* subsp. *decoyicus* Vavra et al. 1959 (Approved Lists 1980).

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 769-775.

EMENDATION OF GENUS

Actinokineospora Hasegawa 1988 emend. Labeda et al. 2010.

Type species: *Actinokineospora riparia* Hasegawa 1988.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1444-1449.

Amycolatopsis Lechevalier et al. 1986 emend. Lee 2009 emend. Tang et al. 2010.

Type species: *Amycolatopsis orientalis* (Pittenger and Brigham 1956) Lechevalier et al. 1986.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1073-1078.

Corynebacterium Lehmann and Neumann 1896 emend. Bernard et al. 2010.

Type species: *Corynebacterium diphtheriae* (Kruse 1886) Lehmann and Neumann 1896 (Approved Lists 1980).

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 874-879.

Dietzia Rainey et al. 1995 emend. Kampf et al. 2010.

Type species: *Dietzia maris* (Nesterenko et al. 1982) Rainey et al. 1995.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 393-396.

Enterorhabdus Clavel et al. 2009 emend. Clavel et al. 2010.

Type species: *Enterorhabdus mucosicola* Clavel et al. 2009.

Reference: Int. J. Syst. Evol. Microbiol., 2010, 60, 1527-1531.

Fronthabitans Greene et al. 2009 emend. Lee 2010.

Type species: *Frondehabitans australicus* 60, 2639-2646.
(Zhang *et al.* 2007) Greene *et al.* 2009.

Reference: Int. J. Syst. Evol. Microbiol., 2010,
60, 1740-1744.

Slackia Wade *et al.* 1999 emend. Nagai *et al.*
2010.

Type species: *Slackia exigua* (Poco *et al.* 1996)
Wade *et al.* 1999.

Reference: Int. J. Syst. Evol. Microbiol., 2010,

EMENDATION OF SPECIES

Citricoccus alkalitolerans Li *et al.* 2005
emend. Schafer *et al.* 2010.

Type strain: strain YIM 70010 = CCTCC AA
203008 = CCUG 51943 = DSM 15665 = JCM
13012 = KCTC 19012.

Reference: Int. J. Syst. Evol. Microbiol., 2010,
60, 271-274

50th Regular Colloquium

Date: Feb. 18 (Fri.), 2011

Place: The Kitasato Institute

Program:

1. “Ecological interactions between soil microbes and invertebrates -Can earthworm act as The Sleeping Beauty?-"

Nobuhiro KANEKO (Graduate School and Institute of Environment and Information Sciences, Yokohama National University)

2. “Vietnamese actinomycetes, taxonomy and ecology’, and NITE's microbes isolated from foreign countries.”

Shinji MIYADOH (NITE/NBRC)

3. “Moving beyond CBD COP10: from Rio to Nagoya, and our expectations for the future.”

Akiko DOMOTO (Biodiversity JAPAN)

4. “Platform technology for creating noble compounds.”

Ken KASAHARA (Neo-Morgan Laboratory Incorporated)

5. “Don’t let them live, but don’t let them die: exploitation of bacterial dormant ability.”

Kozo OCHI (Hiroshima Inst. Technology)

The 2011 Annual Meeting of the Society for Actinomycetes Japan (SAJ2011)

Chair parson: Kozo Asano (Hokkaido University, Japan)

The 2011 Annual Meeting of the Society for Actinomycetes Japan (SAJ2011) will be held in Sapporo, as a part of International Union of Microbiological Societies 2011 Congress (IUMS2011)

General Information

Dates: September 8 (Thu) – 9 (Fri), 2011

Venue: Sapporo Convention Center

1-1-1 Higashi-Sapporo 6-jo, Shiroishi-ku, Sapporo 003-0006, Japan

TEL: +81-11-817-1010

FAX: +81-11-820-4300

<http://www.sora-scc.jp/eng/>

IUMS Registration fee include abstracts (Special price for SAJ members, see our website):

3 days fee (include September 8 and 9)	Participant	¥30,000
	Student	¥15,000

Method of Payment:

Please refer to the IUMS2011 website (below). Payment must be made in Japanese yen by credit card. American Express, Visa, MasterCard, Diners Club and JCB are accepted.

Abstract submission:

Non-Japanese presenters need not necessarily submit Japanese abstract.

Submission of English abstract was finished.

Japanese abstract is open for submission until the end of July 2011.

Submit Japanese abstract by e-mail to 2011saj@agr.hokudai.ac.jp with following the stile shown on Japanese instruction of this journal and web site bellow.

<http://www.agr.hokudai.ac.jp/actino2011/>

Poster size and oral presentation time will be announced at SAJ2011 website.

Submission of oral presentation file:

Oral presentation must be made using Windows PowerPoint. Presenters must submit the presentation file to SAJ2011 office on CD, before August 26, 2011. Presentation time of 12 min and discussion of 3 min are scheduled.

IUMS2011 website:

<http://www.congre.co.jp/iums2011sapporo/index.html>

2011 Annual Meeting of the Society for Actinomycetes Japan (SAJ2011) website:

<http://www.agr.hokudai.ac.jp/actino2011/>

SAJ2011 Registration:

In addition to the IUMS registration, participant must register at SAJ2011 website. Registration page will open until July 31, for early registration.

Reception:

Reception start at 19:00, on September 8 at ASAHI BEER COMMUNITY HALL
(Asahi-beer garden Shiroishi HAMNASU-KAN)

1-1, Nango-Dori 4, Shiroishi-ku, Sapporo 003-0022, Japan

Tel +81-11-863-5251

<http://www.asahibeer.co.jp/restaurant/garden/shiroishi/index.html>

Reception fees

Early registration (before July 31)

Participant	¥5,000	Student	¥3,000
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Late registration (after August 1)

Participant	¥7,000	Student	¥4,000
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Method of Payment:

Postal transfer: Japan Post Network

Number: 02780-1-66382 Name: 2011 nihon housenkin gakkai

Bank transfer is also available. Visit SAJ2011 website.

SAJ2011 Office:

Wataru Kitagawa

Graduate School of Agriculture, Hokkaido University, North 9, West 9, Kita-ku,

Sapporo 060-8589, Japan

E-mail: 2011saj@agr.hokudai.ac.jp

Program

September 8 (Thr)

Room: 207

9:30 Opening remarks

9:40 - 11:25 Contributed papers (Session 1)

O-1 The autoregulator-receptor homologue
AvaR3 is a global regulator controlling

antibiotic production and cell morphology
of *Streptomyces avermitilis* (SAJ-O).

○Kiyoko Miyamoto¹, Shigeru Kitani¹,
Mamoru Komatsu², Haruo Ikeda², and
Takuya Nihira¹ (¹International Center
for Biotechnology, Osaka University,
Japan; ²Kitasato Institute for Life Sci-
ences, Kitasato University, Japan)

- O-2 Strict regulation of morphological and physiological differentiation by a positive feedback loop between two global regulators AdpA and *bldA* in *Streptomyces griseus* (SAJ-O).
 ○Akiyoshi Higo, Sueharu Horinouchi, and Yasuo Ohnishi (Department of Biotechnology, Graduate School of Agriculture and Life Science, The University of Tokyo, Japan)
- O-3 Knockout of *cvnI*, one of the conserved GPCR-like regulatory operons, causes fragmentation of vegetative mycelium in *Streptomyces griseus* (SAJ-O).
 ○Hideaki Takano, Kazuki Hashimoto, Hayato Watanabe, Hatsumi Shiratori-Takano, and Kenji Ueda (Life Science Research Center, College of Bioresource Sciences, Nihon University, Japan)
- O-4 Isolation and structural elucidation of the novel γ -butenolide signaling molecules SRBs that switch on antibiotic production in *Streptomyces rochei* 7434AN4 (SAJ-O).
 ○Kenji Arakawa, Akihiro Taniguchi, Naoto Tsuda, and Haruyasu Kinashi (Department of Molecular Biotechnology, Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan)
- O-5 Characterization of *ksbC*, a γ -butyrolactone-autoregulator receptor gene homolog in *Kitasatospora setae* NBRC 14216 (SAJ-O).
 ○Aiyada Aroonsri¹, Shigeru Kitani¹, Haruo Ikeda², and Takuya Nihira¹ (¹International Center for Biotechnol-
- ogy, Osaka University, Japan; ²Kitasato Institute for Life Sciences, Kitasato University, Japan)
- O-6 Functional characterization of *Streptomyces* ABBA prenyltransferases involved in the biosyntheses of novobiocin and prenylated indoles (SAJ-O).
 ○Taro Ozaki, Makoto Nishiyama, and Tomohisa Kuzuyama (Biotechnology Research Center, The University of Tokyo, Japan)
- O-7 Characterization of the biosynthesis gene cluster for Alkyl-*O*-dihydrogeranyl-methoxyhydroquinones in *Actinoplanes missouriensis* (SAJ-O).
 ○Takayoshi Awakawa¹, Nobuyuki Fujita², Masayuki Hayakawa³, Yasuo Ohnishi¹, and Sueharu Horinouchi¹ (¹Department of Biotechnology, Graduate School of Agriculture and Life Sciences, The University of Tokyo, Japan; ²NITE Bioresource Information Center, Department of Biotechnology and Evaluation, Japan; ³Division of Applied Biological Sciences, Interdisciplinary Graduate School of Medicine and Engineering, University of Yamanashi, Japan)
- 11:25 - 11:35 Break
- 11:35 - 12:20 **Poster Session** (odd numbers)
- 12:20 - 13:20 Lunch Break
- 13:20 - 14:05 **Poster Session** (even numbers)
- 14:05 - 14:15 Break

- 14:15 - 15:00 **The SAJ Plenary Meeting**
(in Japanese) Sciences, Kitasato University, Japan;
²Toyama Prefectural University, Japan;
³John Innes Centre, U.K.)
- 15:00 - 15:20 **Award Ceremony**
- 15:20 - 15:40 **Award lecture 1**
(Hamada Award)
Selective isolation method for motile actinomycetes and ecological study of actinomycetes in Southeast Asia.
Misa Ootoguro, NITE Biological Resource Center
- 15:40 - 16:00 **Award lecture 2**
(Hamada Award)
Signalling systems with γ -butyrolactone autoregulator for antibiotic production in actinomycetes.
Shigeru Kitani, International Center for Biotechnology, Osaka University
- 16:00 - 16:20 **Award lecture 3**
(Hamada Award)
Construction of natural product library with secondary metabolites produced by actinomycetes.
Motoki Takagi, Technology Research Association for Next-Generation Natural Product Chemistry
- 16:20 - 16:30 Break
- 16:30 - 18:15 **Contributed papers (Session 2)**
- O-8 Heterologous expression of biosynthetic gene cluster for secondary metabolite derived from shikimate pathway in engineered *Streptomyces avermitilis* (SAJ-O).
○ Mamoru Komatsu¹, Hiroyasu Onaka², Mervyn J. Bibb³, and Haruo Ikeda¹ (¹Kitasato Institute for Life
- O-9 Identification of key enzymes involved in spiroacetal formation in reveromycin A biosynthesis (SAJ-O).
○ Shunji Takahashi, Takuto Kumano, Hiroshi Takagi, Toshihiko Nogawa, Eri Oowada, Suresh Panthee, Masakazu Uramoto, and Hiroyuki Osada (Chemical Biology Department, RIKEN Advanced Science Institute, Japan)
- O-10 *In vitro* reconstruction of post-PKS modification in RM-A biosynthesis (SAJ-O).
○ Takuto Kumano, Shunji Takahashi, and Hiroyuki Osada (Chemical Biology Department, Advanced Science Institute, RIKEN, Japan)
- O-11 Novel acetoacetyl-coenzyme A synthesizing enzyme of the thiolase superfamily involved in the mevalonate pathway (SAJ-O).
○ Tomohisa Kuzuyama (Biotechnology Research Center, The University of Tokyo, Japan)
- O-12 Detection of fermented food microorganisms-producing bioactive cyclic dipeptides by enzymatic conversion-based method (SAJ-O).
○ Hiroshi Kanzaki, Ayaka Takatsu, Yuu Fukuda, Man Chao, and Teruhiko Nitoda (Graduate School of Natural Science and Technology, Okayama University, Japan)

O-13 Biosynthetic pathway of new polyketides produced by *Streptomyces* sp. RK95-74 (SAJ-O).

○Masashi Ueki¹, Naofumi Koshiro^{1,2}, Shunji Takahashi¹, Eri Oowada¹, Jun Ishikawa³, Atsushi Toyoda⁴, and Hiroyuki Osada¹ (¹Chem. Biol. Dept., RIKEN ASI, Japan; ²Mat. Sci. Eng., Tokyo Denki Univ., Japan; ³Dept. Bioactive Molecules, Natl. Inst. Infect. Dis., Japan; ⁴National Inst. Genet, Japan)

O-14 Bioactive *Streptomyces* species isolated from desert soil in Riyadh, Kingdom of Saudi Arabia: Evaluation of their activity against human pathogenic bacteria and yeast (SAJ-O).

○Ismet Ara, Muneera Al-Othman, and Mohammad Abdul Bakir (Department of Botany and Microbiology, College of Science, Kingdom of Saudi Arabia)

19:00 - 21:00 **SAJ2011 Reception at Asahi-beer garden Shiroishi HAMANASU-KAN**

September 9 (Fri)

Room: 207

9:00 - 10:45 **Contributed papers (Session 3)**

O-15 Novel phenylacetylated peptides isolated from *Streptomyces* sp. and *Kibdelosporangium* sp (SAJ-O).

○Miho Izumikawa¹, Jun-ya Ueda¹, Ikuko Kozono¹, Hideki Yamamura², Masayuki Hayakawa², Motoki Takagi¹, and Kazuo Shinya³ (¹Japan Biological Informatics Consortium (JBIC); ²Interdisciplinary Graduate School of

Medicine and Engineering, University of Yamanashi, Japan; ³National Institute of Advanced Industrial Science and Technology (AIST), Japan)

O-16 New aspects of chemical biology using tautomycetin produced by *Streptomyces griseochromogenes* (SAJ-O).

○Makoto Ubukata, Ying Li, and Shinya Mitsuhashi (Graduate School of Agriculture, Hokkaido University, Japan)

O-17 Novel secondary metabolites produced by *Lechevalieria* sp. K10-0216 isolated from a mangrove segment (SAJ-O).

Junichi Ochiai¹, ○Takuji Nakashima², Atsuko Matsumoto³, Masato Iwatsuki³, Kazuro Shiomi^{1,3}, Satoshi Ōmura³, and Yōko Takahashi^{1,3}

(¹Graduate School of Infection Control Sciences, Japan; ²Research Organization for Infection Control Sciences, Japan; ³Kitasato Institute for Life Sciences, Kitasato University, Tokyo, Japan)

O-18 3,6,7-tri-*epi*-invictolide, a diastereomer of queen recognition pheromone, and its analog from a marine derived actinomycete (SAJ-O).

○Fumie Iwata, Seizo Sato, Shoichi Yamada, and Hiroyuki Kawahara (Central Research Laboratory, Nippon Suisan Kaisha, Ltd., Japan)

O-19 Enhancing biocatalytic production of 25-hydroxyvitamin D₃ by the site-directed mutagenesis on the molecular surface of Vitamin D₃ hydroxylase (P450 Vdh) (SAJ-O).

○ Taiki Nishioka¹, Noriko Imoto¹, Yoshiaki Yasutake², and Tomohiro Tamura^{1,2} (¹Graduate School of Agriculture, Hokkaido University, Japan; ²Bioproduction research institute, National Institute of Advanced Industrial Science and Technology (AIST), Japan)

O-20 Rpf-like protein from *Tomitella biformata* promotes the growth and resuscitates from non-dividing state (SAJ-O).

○ Indun Dewi Puspita¹, Moe Uehara¹, Taiki Katayama², Michiko Tanaka¹, Yoichi Kamagata^{1,2}, and Kozo Asano¹ (¹Graduate School of Agriculture, Hokkaido University, Japan; ²National Institute of Advanced Industrial Science and Technology (AIST), Japan)

O-21 Studies on substances which promote colony formation of bacteria produced by actinomycetes (SAJ-O).

○ Ryo Kawai, Tetsuya Yamada, Noritomo Fujino, Hiromichi Nagasawa, and Shohei Sakuda (Department of Applied Biological Chemistry, The University of Tokyo, Japan)

10:45 - 11:00 Break

11:00 - 13:00 **SAJ2011 Symposium**

11:00 - 11:40 **S1**

Kissing the sleepy actinobacterial beauty: a molecular approach.

Erko Stackebrandt (DSMZ-German Collection of Microorganisms and Cell Cultures GmbH, Germany)

11:40 - 12:20 **S2**

Ecological importance of the presence of *Micromonospora* in legume root nodules.

Martha E. Trujillo (Departamento de Microbiología y Genética, Universidad de Salamanca, Spain)

12:20 – 13:00 **S3**

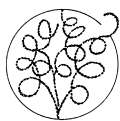
Genetic and biochemical analysis of precursor supply in secondary metabolite biosynthesis in Actinomycetes.

Wolfgang Wohlleben (Institute of Microbiology, University of Tuebingen, Germany)

13:00 – 13:15 **Awarding Ceremony for Poster Award**

13:15 **Closing Remarks**

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E-mail : ja@natureasia.com

Yoko Takahashi

President

The Society for Actinomycetes Japan