

Pilzgattungen Europas - Liste 19: Liste der weltweit vorkommenden Gattungen der Prokaryonten mit pilzähnlichen Strukturen; Teil 1: Actinomyceten (Gattungen bis 2007)

Bernhard Oertel
INRES
Universität Bonn
Auf dem Hügel 6
D-53121 Bonn
E-mail: b.oertel@uni-bonn.de
24.06.2011

In dieser Datei sind nur die Gattungen enthalten, die bis 2007 beschrieben wurden; eine Fortführung der Datei über 2007 hinaus ist von der geplanten Anlage dieser Datensammlung her nicht vorgesehen.

Nicht immer ist angegeben, welche Actinomycetales äußerlich pilzartig und damit Mycel- bzw. Hyphen-bildend sind. Da außerdem noch keine Auflistung der europäischen Gattungen vorlag, handelt es sich um eine Liste der Gattungen der ganzen Welt.

Da es zwischen Actinomyceten und Pilzen teilweise nomenklatorische Überschneidungen im Gebrauch von Namen gibt, kann mit Hilfe dieser Datei auch ermittelt werden, zu welcher Organismengruppe bestimmte Namen wie z.B. *Frankiella*, *Frondicola*, *Microsphaera*, *Oospora* u. *Streptothrix* gehören.

Actinomyceten

Lebensweise: Z.T. phytoparasitisch, z.T. zooparasitisch u. z.T. humanparasitisch

Gattungen

Acaricomes Pukall et al. 2006 (Micrococcaceae, Actinomycetales):
Typus: *A. phytoseiuli* Pukall et al.
Erstbeschr.: Pukall, R. et al. (2006), *Acaricomes*

phytoseiuli gen. nov., sp. nov., isolated from the predatory mite *Phytoseiulus persimilis*, Int. J. Syst. Evol. Microbiol. **56**, 465-469

Acidothermus Mohagheghi et al. 1986 (Acidothermataceae, Actinomycetales):

Typus: *A. cellulolyticus* Mohagheghi et al.

Erstbeschr.: Mohagheghi, A. et al. (1986), Isolation and characterization of *Acidothermus cellulolyticus* gen. nov., sp. nov., a new genus of thermophilic, acidophilic, cellulolytic bacteria, Int. J. Syst. Bacteriol. **36**, 435-443

Acrocarpospora Tamura et al. 2000 (Streptosporangiaceae, Actinomycetales):

Typus: *A. pleiomorpha* Tamura et al.

Erstbeschr.: Tamura, T. et al. (2000), *Acrocarpospora* gen. nov., a new genus of the order Actinomycetales, Int. J. Syst. Evol. Microbiol. **50**, 1163-1171

Actinoalloteichus Tamura et al. 2000 (Pseudonocardiaceae, Actinomycetales):

Typus: *A. cyanogriseus* Tamura et al.

Erstbeschr.: Tamura, T. et al. (2000), *Actinoalloteichus cyanogriseus* gen. nov., sp. nov., Int. J. Syst. Evol. Microbiol. **50**, 1435-1440

Actinobaculum Lawson et al. 1997 (Actinomycetaceae, Actinomycetales) (Mycelbildner):

Typus: *A. suis* (Wegienek & Reddy) Lawson et al. (= *Corynebacterium suis* Soltys & Spratling)

Erstbeschr.: Lawson, P.A. et al. (1997), Characterization of some *Actinomyces*-like isolates from human clinical specimens: reclassification of *Actinomyces suis* (Soltys and Spratling) as *Actinobaculum suis* comb. nov. and description of *Actinobaculum schaalii* sp. nov., Int. J. Syst. Bacteriol. **47**, 899-903

Actinobispora Jiang et al. 1991 (Pseudonocardiaceae, Actinomycetales) (zu *Pseudonocardia*?):

Typus: *A. yunnanensis* Jiang et al. [= *Pseudonocardia yunnanensis* (Jiang et al.) Huang et al.]

Erstbeschr.: Jiang, C. et al. (1991), *Actinobispora*, a new genus of the order Actinomycetales, Int. J. Syst. Bacteriol. **41**, 526-528

Lit.: Holt et al. (1994), 627

Huang, Y. et al. (2002), Proposal to combine the genera *Actinobispora* and *Pseudonocardia* in an emended genus *Pseudonocardia*, and description of *Pseudonocardia*

zijingensis sp. nov., Int. J. Syst. Evol. Microbiol. **52**, 977-982

Actinocatenispora Thawai et al. 2006 (Micromonosporaceae, Actinomycetales):

Typus: *A. thailandica* Thawai et al.

Erstbeschr.: Thawai, C. et al. (2006), *Actinocatenispora thailandica* gen. nov., sp. nov., a new member of the family Micromonosporaceae, Int. J. Syst. Evol. Microbiol. **56**, 1789-1794

Actinocorallia Iinuma et al. 1994 emend. Zhang et al. 2001 (Thermomonosporaceae, Actinomycetales):

Typus: *A. herbida* Iinuma et al.

Erstbeschr.: Iinuma, S. et al. (1994), *Actinocorallia* gen. nov., a new genus of the order Actinomycetales, Int. J. Syst. Bacteriol. **44**, 230-234; Zhang, Z. (2001), Clarification of the relationship between the members of the family Thermomonosporaceae on the basis of 16S rDNA, 16S-23S rRNA internal transcribed spacer and 23S rDNA sequences and chemotaxonomic analyses, Int. J. Syst. Evol. Microbiol. **51**, 373-383

Actinokineospora Hasegawa 1988 (Actinosynnemataceae,

Actinomycetales) (Mycelbildner):

Typus: *A. riparia* Hasegawa

Erstbeschr.: Hasegawa, T. (1988), *Actinokineospora*: a new genus of the Actinomycetales, Actinomycetologica **2**, 31-45

Lit.: Holt et al. (1994), 628

Actinomadura Lechevalier, H.A. & M.P. Lechevalier 1970 (= *Excellospora*) (Thermomonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *A. madurae* (Vincent) Lechevalier, H.A. & M.P. Lechevalier (= *Streptothrix madurae* Vincent)

Erstbeschr.: Lechevalier, H.A. u. M.P. Lechevalier (1970), A critical evaluation of the genera of aerobic actinomycetes, in: Prauser, H. (Hrsg.), The Actinomycetales, VEB Gustav Fischer Verlag, Jena, 393-405

Lit.: Holt et al. (1994), 679

Vincent, H. (1894), Etude sur le parasite du pied le madura, Ann. Institut Pasteur (Paris) **8**, 129-151

Williams et al. (1989), 2511 u. 2616

Actinomyces Harz 1877 (= *Actinocladothrix*; = *Discomyces*) (Actinomycetaceae, Actinomycetales; die Actinomyceten hießen in den ersten Jahrzehnten des 19. Jahrhunderts

einheitlich *Actinomyces* oder z.T. auch *Streptothrix*;
daneben gab es auch schon die Gatt. *Mycobacterium*
(Mycelbildner) [non *Actinomyce* Meyen 1827]:

Typus: *A. bovis* Harz [Synonyma: *Oospora bovis* (Harz)
Sauvageau & Radais; *Cladothrix bovis* (Harz) Macé;
Nocardia bovis (Harz) Blanchard; *Streptothrix bovis*
(Harz) Chester; *Sphaerotilus bovis* (Harz) Engler]
Erstbeschr.: Harz, C.O. (1877/78), *Actinomyces bovis* ein
neuer Schimmel in den Geweben des Rindes, Deutsche
Z. Thiermedizin, **5**, 125-140

Actinoplanes Couch 1950 (= *Amorphosporangium*; = *Ampullariella*)
(Micromonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *A. philippinensis* Couch 1950
Erstbeschr.: Couch, J.N. (1950), *Actinoplanes*, a new
genus of the Actinomycetales, J. Elisha Mitchell
Sci. Soc. **66**, 87-92

Lit.: Couch, J.N. (1955), A new genus and family of the
Actinomycetales, with a revision of the genus
Actinoplanes, J. Elisha Mitchell Sci. Soc. **71**, 148-
155

Holt et al. (1994), 653 (auch als *Ampullariella*)
Stackebrandt, E. u. R.M. Kroppenstedt (1987), Union of
the genera *Actinoplanes* Couch, *Ampullariella* Couch,
and *Amorphosporangium* Couch in a redefined genus
Actinoplanes, Syst. Appl. Microbiol. **9**, 110-114
Williams et al. (1989), 2419, 2429 (*Ampullariella*) u.
2616

Actinopolymorpha Wang et al. 2001 (Nocardioidaceae,
Actinomycetales):

Typus: *A. singaporenensis* Wang et al.
Erstbeschr.: Wang, Y.M. et al. (2001), *Actinopolymorpha*
singaporenensis gen. nov., sp. nov., a novel
actinomycete from the tropical rainforest of
Singapore, Int. J. Syst. Evol. Microbiol. **51**, 467-
473

Actinopolyspora Gochnauer et al. 1975 (Pseudonocardiaceae,
Actinomycetales) (Mycelbildner):

Typus: *A. halophila* Gochnauer et al.
Erstbeschr.: Gochnauer, M.B. et al. (1975), Isolation and
characterization of *Actinopolyspora halophila*, gen.
et sp. nov., an extremely halophilic actinomycete,
Canad. J. Microbiol. **21**, 1500-1511

Lit.: Holt et al. (1994), 628
Williams et al. (1989), 2398

Actinopycnidium s. *Streptomyces*

Actinospica Cavaletti et al. 2006 (Actinospicaceae,

Actinomycetales):

Typus: *A. robiniae* Cavaletti et al.

Erstbeschr.: Cavaletti, L. et al. (2006), *Actinospica robiniae* gen. nov., sp. nov. and *Actinospica acidiphila* sp. nov.: proposal for Actinospicaceae fam. nov. and Catenulisporeineae subord. nov. in the order Actinomycetales, Int. J. Syst. Evol. Microbiol. **56**, 1747-1753

Actinosporangium s. *Streptomyces*

Actinosynnema Hasegawa et al. 1978 (Actinosynnemataceae,

Actinomycetales) (Mycelbildner):

Typus: *A. mirum* Hasegawa et al.

Erstbeschr.: Hasegawa, T. et al. (1978), A new genus of Actinomycetales: *Actinosynnema* gen. nov., Intern. J. Syst. Bact. **28**, 304-310

Lit.: Holt et al. (1994), 693

Williams et al. (1989), 2560

Actinotalea Yi et al. 2007 (Cellulomonadaceae,

Actinomycetales):

Typus: *A. fermentans* (Bagnara et al.) Yi et al. (= *Cellulomonas fermentans* Bagnara et al.)

Erstbeschr.: Yi, H. et al. (2007), *Demequina aestuarii* gen. nov., sp. nov., a novel actinomycete of the suborder Micrococcineae, and reclassification of *Cellulomonas fermentans* Bagnara et al. 1985 as *Actinotalea fermentans* gen. nov., comb. nov., Int. J. Syst. Evol. Microbiol. **57**, 151-156

Aeromicrobium Miller et al. 1991 emend. Yoon et al. 2005

(Nocardioidaceae, Actinomycetales):

Typus: *A. erythreum* Miller et al.

Erstbeschr.: Miller, E.S. et al. (1991), Description of the erythromycin-producing bacterium *Arthrobacter* sp. strain NRRL B-3381 as *Aeromicrobium erythreum* gen. nov., sp. nov., Int. J. Syst. Bacteriol. **41**, 363-368; Yoon, J.H. et al. (2005), *Aeromicrobium alkaliterrae* sp. nov., isolated from an alkaline soil, and emended description of the genus *Aeromicrobium*, Int. J. Syst. Evol. Microbiol. **55**, 2171-2175

Aestuariimicrobium Jung et al. 2007 (Propionibacteriaceae,

Actinomycetales):

Typus: *A. kwangyangense* Jung et al.

Erstbeschr.: Jung, S.Y. et al. (2007), *Aestuariimicrobium kwangyangense* gen. nov., sp. nov., an LL-diaminopimelic acid-containing bacterium isolated from tidal flat sediment, Int. J. Syst. Evol. Microbiol. **57**, 2114-2118

Agreia Evtushenko et al. 2001 (Microbacteriaceae, Actinomycetales) (kein Mycel bildend):

Typus: *A. bicolorata* Evtushenko et al.

Erstbeschr.: Evtushenko, L.I. et al. (2001), *Agreia bicolorata* gen. nov., sp. nov., to accommodate actinobacteria isolated from narrow reed grass infected by the nematode *Heteroanguina graminophila*, Int. J. Syst. Evol. Microbiol. **51**, 2073-2079

Agrococcus Groth et al. 1996 (Microbacteriaceae, Actinomycetales):

Typus: *A. jenensis* Groth et al.

Erstbeschr.: Groth, I. et al. (1996), *Agrococcus jenensis* gen. nov., sp. nov., a new genus of actinomycetes with diaminobutyric acid in the cell wall, Int. J. Syst. Bacteriol. **46**, 234-239

Agromyces Gledhill & Casida 1969 emend. Zgurskaya et al. 1992 (Microbacteriaceae, Actinomycetales) (Mycelbildner):

Typus: *A. ramosus* Gledhill & Casida

Erstbeschr.: Gledhill, W.E. u. L.E. Casida (1969), Predominant catalase-negative soil bacteria, III, *Agromyces*, gen. n., microorganisms intermediary to *Actinomyces* and *Nocardia*, Appl. Microbiol. **18**, 340-349; Zgurskaya, H.I. et al. (1992), Emended description of the genus *Agromyces* and description of *Agromyces cerinus* subsp. *cerinus* sp. nov., subsp. nov., *Agromyces cerinus* subsp. *nitratus* sp. nov., subsp. nov., *Agromyces fucosus* subsp. *fucosus* sp. nov., subsp. nov., and *Agromyces fucosus* subsp. *hippuratus* sp. nov., subsp. nov., Int. J. Syst. Bacteriol. **42**, 635-641

Amorphosporangium s. *Actinoplanes*

Ampullariella s. *Actinoplanes*

Amycolata s. *Pseudonocardia*

Amycolatopsis Lechevalier et al. 1986 (Pseudonocardiaceae,

Actinomycetales) (Mycelbildner):

Typus: *A. orientalis* (Pittenger & Brigham) Lechevalier et al. (= *Streptomyces orientalis* Pittenger & Brigham)

Erstbeschr.: Lechevalier, M.P. et al. (1986), Two new genera of nocardioform actinomycetes: *Amycolata* gen.

nov. and *Amycolatopsis* gen. nov., Int. J. Syst. Bact. **36**, 29-37
Lit.: Holt et al. (1994), 629
Williams et al. (1989), 2616
Arachnia s. *Propionibacterium*
Arcanobacterium Collins et al. 1983 emend. Lehnen et al. 2006
(Actinomycetaceae, Actinomycetales) (Mycelbildner):
Typus: *A. haemolyticum* (Mac Lean et al.) Collins et al.
(= *Corynebacterium haemolyticum* Mac Lean et al.)
Erstbeschr.: Collins, M.D. et al. (1982),
Reclassification of "Corynebacterium haemolyticum"
(Mac Lean, Liebow & Rosenberg) in the genus
Arcanobacterium gen. nov. as *Arcanobacterium*
haemolyticum nom. rev., comb. nov., J. Gen. Microbiol. **128**, 1279-1281; Lehnen, A. et al. (2006),
Arcanobacterium bialowiezense sp. nov. and
Arcanobacterium bonasi sp. nov., isolated from the
prepuce of European bison bulls (*Bison bonasus*)
suffering from balanoposthitis, and emended
description of the genus *Arcanobacterium* Collins et
al. 1983, Int. J. Syst. Evol. Microbiol. **56**, 861-866
Arsenicicoccus Collins et al. 2004 (Intrasporangiaceae,
Actinomycetales):
Typus: *A. bolidensis* Collins et al.
Erstbeschr.: Collins, M.D. et al. (2004), *Arsenicicoccus bolidensis* gen. nov., sp. nov., a novel actinomycete
isolated from contaminated lake sediment, Int. J. Syst. Evol. Microbiol. **54**, 605-608
Arthrobacter Conn & Dimmick 1947 emend. Koch et al. 1995
(Micrococcaceae, Actinomycetales) (kein Mycel bildend):
Typus: *A. globiformis* (Conn) Conn & Dimmick (= *Bacterium globiforme* Conn)
Erstbeschr.: Conn, H.J. u. I. Dimmick (1947), Soil
bacteria similar in morphology to *Mycobacterium* and
Corynebacterium, J. Bact. **54**, 291-303; Koch, C. et
al. (1995), Reclassification of *Micrococcus agilis*
(Ali-Cohen 1889) to the genus *Arthrobacter* as
Arthrobacter agilis comb. nov. and emendation of the
genus *Arthrobacter*, Int. J. Syst. Bacteriol. **45**,
837-839
Asanoa Lee & Hah 2002 (Micromonosporaceae, Actinomycetales):
Typus: *A. ferruginea* (Asano & Kawamoto) Lee & Hah (=
Catellatospora ferruginea Asano & Kawamoto)
Erstbeschr.: Lee, S.D. u. Y.C. Hah (2002), Proposal to

transfer *Catellatospora ferruginea* and
'*Catellatospora ishikariense*' to *Asanoa* gen. nov. as
Asanoa ferruginea comb. nov. and *Asanoa*
ishikariensis sp. nov., with emended description of
the genus *Catellatospora*, Int. J. Syst. Evol.
Microbiol. **52**, 967-972

Aureobacterium s. *Microbacterium*

Bacterionema s. *Corynebacterium*

Beutenbergia Groth et al. 1999 (Beutenbergiaceae,

Actinomycetales):

Typus: *B. cavernae* Groth et al.

Erstbeschr.: Groth, I. et al. (1999), *Beutenbergia*
cavernae gen. nov., sp. nov., an L-lysine-containing
actinomycete isolated from a cave, Int. J. Syst.
Bacteriol. **49**, 1733-1740

Blastococcus Ahrens & Moll 1970 emend. Lee 2006

(Geodermatophilaceae, Actinomycetales):

Typus: *B. aggregatus* Ahrens & Moll 1970

Erstbeschr.: Ahrens, R. u. G. Moll (1970), Ein neues
Knospendedes Bakterium aus der Ostsee, Archiv
Mikrobiol. **70**, 243-265; Lee, S.D. (2006),
Blastococcus jejuensis sp. nov., an actinomycete
from beach sediment, and emended description of the
genus *Blastococcus* Ahrens and Moll 1970, Int. J.
Syst. Evol. Microbiol. **56**, 2391-2396

Bogoriella Groth et al. 1997 (Bogoriellaceae,

Actinomycetales):

Typus: *B. caseilytica* Groth et al.

Erstbeschr.: Groth, I. et al. (1997), *Bogoriella*
caseilytica gen. nov., sp. nov., a new alkaliphilic
actinomycete from a soda lake in Africa, Int. J.
Syst. Bacteriol. **47**, 788-794

Brachybacterium Collins et al. 1988 (Dermabacteraceae,

Actinomycetales):

Typus: *B. faecium* Collins et al.

Erstbeschr.: Collins, M.D. et al. (1988), *Brachybacterium*
faecium gen. nov., sp. nov., a coryneform bacterium
from poultry deep litter, Int. J. Syst. Bacteriol.
38, 45-48

Brevibacterium Breed 1953 (Brevibacteriaceae, Actinomycetales)

(kein Mycel bildend):

Typus: *B. linens* (Wolff) Breed (= *Bacterium linens* Wolff)

Erstbeschr.: Breed, R.S. (1953), The Brevibacteriaceae
fam. nov. of order Eubacterales, Riassunti delle

Communicazione 6. Congresso Internazionale di
Microbiologia, Roma, 1953, **1**, 13-14

Brooklawnia Rainey et al. in Bae et al. 2006

(Propionibacteriaceae, Actinomycetales) :

Typus: *B. cerclae* Rainey et al.

Erstbeschr.: Bae, H.S. et al. (2006), *Brooklawnia cerclae* gen. nov., sp. nov., a propionate-forming bacterium isolated from chlorosolvent-contaminated groundwater, Int. J. Syst. Evol. Microbiol. **56**, 1977-1983

Caseobacter s. *Corynebacterium*

Catellatospora Asano & Kawamoto 1986 emend. Ara et al. 2008

(Micromonosporaceae, Actinomycetales) (Mycelbildner) :

Typus: *C. citrea* Asano & Kawamoto

Erstbeschr.: Asano, K. u. I. Kawamoto (1986),
Catellatospora, a new genus of the Actinomycetales,
Int. J. Syst. Bact. **36**, 512-517; Ara, I. et al.
(2008), Transfer of *Catellatospora koreensis* Lee et al. 2000 as *Catelliglobosispora koreensis* gen. nov., comb. nov. and *Catellatospora tsunoense* Asano et al. 1989 as *Hamadaea tsunoensis* gen. nov., comb. nov., and emended description of the genus *Catellatospora* Asano and Kawamoto 1986 emend. Lee and Hah 2002, Int. J. Syst. Evol. Microbiol. **58**, 1950-1960

Lit.: Holt et al. (1994), 653

Williams et al. (1989), 2616

Catenulisporea Busti et al. 2006 (Catenulisporaceae,

Actinomycetales) :

Typus: *C. acidiphila* Busti et al.

Erstbeschr.: Busti, E. et al. (2006), *Catenulisporea acidiphila* gen. nov., sp. nov., a novel, mycelium-forming actinomycete, and proposal of Catenulisporaceae fam. nov., Int. J. Syst. Evol. Microbiol. **56**, 1741-1746; Tamura, T. et al. (2008), *Catenulisporea subtropica* sp. nov. and *Catenulisporea yoronensis* sp. nov., Int. J. Syst. Evol. Microbiol. **58**, 1552-1555

Catenuloplanes Yokota et al. 1993 emend. Kudo et al. 1999 (=

Planopolyspora) (Micromonosporaceae, Actinomycetales) :

Typus: *C. japonicus* Yokota et al.

Erstbeschr.: Yokota, A. et al. (1993), *Catenuloplanes japonicus* gen. nov., sp. nov., nom. rev., a new genus of the order Actinomycetales, Int. J. Syst. Bacteriol. **43**, 805-812; Kudo, T. et al. (1999),

Catenuloplanes crispus (Petrolini et al. 1993) comb. nov.: incorporation of the genus *Planopolyspora* Petrolini 1993 into the genus *Catenuloplanes* Yokota et al. 1993 with an amended description of the genus *Catenuloplanes*, Int. J. Syst. Bacteriol. **49**, 1853-1860

Cellulomonas Bergey et al. 1923 (vgl. *Oerskovia*)
(Cellulomonadaceae, Actinomycetales) (Mycelbildner):
Typus: *C. flavigena* (Kellerman & McBeth) Bergey et al. (= *Bacillus flavigenus* Kellerman & McBeth)
Erstbeschr.: Bergey, D.H. et al. (1923), Bergey's Manual of Determinative Bacteriology, 1. Aufl., Williams & Wilkins, Baltimore (442 S.)
Cellulosimicrobium Schumann et al. 2001 emend. Yoon et al. 2007 (Promicromonosporaceae, Actinomycetales):
Typus: *C. cellulans* (Metcalf & Brown) Schumann et al. (= *Nocardia cellulans* Metcalf & Brown)
Erstbeschr.: Schumann, P. et al. (2001), Reclassification of *Cellulomonas cellulans* (Stackebrandt and Keddie 1986) as *Cellulosimicrobium cellulans* gen. nov., comb. nov., Int. J. Syst. Evol. Microbiol. **51**, 1007-1010; Yoon, J.H. et al. (2007), *Cellulosimicrobium terreum* sp. nov., isolated from soil, Int. J. Syst. Evol. Microbiol. **57**, 2493-2497

Chainia s. *Streptomyces*

Citricoccus Altenburger et al. 2002 (Micrococcaceae, Actinomycetales):
Typus: *C. muralis* Altenburger et al.
Erstbeschr.: Altenburger, P. et al. (2002), *Citricoccus muralis* gen. nov., sp. nov., a novel actinobacterium isolated from a medieval wall painting, Int. J. Syst. Evol. Microbiol. **52**, 2095-2100

Clavibacter Davis et al. 1984 (Microbacteriaceae, Actinomycetales) (kein Mycel bildend):
Lebensweise: Z.T. phytopathogen und von Quarantänebestimmungen betroffen
Typus: *C. michiganensis* (Smith) Davis et al. (= *Bacterium michiganense* Smith)
Erstbeschr.: Davis, M.J. et al. (1984), *Clavibacter*: a new genus containing some phytopathogenic coryneform bacteria, including *Clavibacter xyli* subsp. *xyli* sp. nov., subsp. nov. and *Clavibacter xyli* subsp. *cynodontis* subsp. nov., pathogens that cause ratoon stunting disease of sugarcane and bermudagrass

stunting disease, Intern. J. Syst. Bacteriol. **34**,
107-117

Lit.: Sorauer (1928), u.a. S. 178-179 (als *Aplanobacter insidiosum*), 242-245 (als *Bacterium sepedonicum*) u. 256-258 (als *Aplanobacter michiganense*)

Corynebacterium Lehmann & Neumann 1896 (= *Bacterionema*; = *Caseobacter*) (Corynebacteriaceae, Actinomycetales) (z.T. Mycelbildner):

Typus: *C. diphtheriae* (Kruse in Flügge 1886) Lehmann & Neumann 1896 (= *Bacillus diphtheriae* Kruse in Flügge 1886)

Erstbeschr.: Lehmann, K.B. u. R. Neumann (1896), Atlas und Grundriss der Bakteriologie und Lehrbuch der speciellen bakteriologischen Diagnostik, Lehmann, München

Lit.: Collins, M.D. (1982), Reclassification of *Bacterionema matruchotii* (Mendel) in the genus *Corynebacterium*, as *Corynebacterium matruchotii* comb. nov., Zentralbl. Bakteriol. Parasitenkd. Infektionskr. Hyg., Abt. 1 Orig., **C3**, 364-367; Collins, M.D. et al. (1989), Phylogenetic evidence for the transfer of *Caseobacter polymorphus* (Crombach) to the genus *Corynebacterium*, Int. J. Syst. Bacteriol., 1989, **39**, 7-9

Crombach, W.H.J. (1978), *Caseobacter polymorphus* gen. nov., sp. nov., a coryne-form bacterium from cheese, Intern. J. Syst. Bact. **28**, 354-366

Gilmour, M.N. et al. (1961), The classification of organisms termed *Leptotrichia* (*Leptothrix*) *buccalis*, I, Review of the literature and proposed separation into *Leptotrichia buccalis* Trevisan 1879 and *Bacterionema* gen. nov., *B. matruchotii* (Mendel 1919) comb. nov., Bacteriol. Reviews **25**, 131-141 (*Bacterionema*)

Couchioplanes Tamura et al. 1994 (Micromonosporaceae, Actinomycetales):

Typus: *C. caeruleus* (Horan & Brodsky) Tamura et al. (= *Actinoplanes caeruleus* Horan & Brodsky)

Erstbeschr.: Tamura, T. et al. (1994), A new genus of the order Actinomycetales, *Couchioplanes* gen. nov., with descriptions of *Couchioplanes caeruleus* (Horan and Brodsky 1986) comb. nov. and *Couchioplanes caeruleus* subsp. *azureus* subsp. nov., Int. J. Syst. Bacteriol. **44**, 193-203

Crossiella Labeda 2001 (Pseudonocardiaceae, Actinomycetales):
Typus: *C. cryophila* (Labeda & Lechevalier) Labeda (=
Saccharothrix cryophilus Labeda & Lechevalier)
Erstbeschr.: Labeda, D.P. (2001), *Crossiella* gen. nov., a
new genus related to *Streptoalloteichus*, Int. J.
Syst. Evol. Microbiol. **51**, 1575-1579

Cryobacterium Suzuki et al. 1997 emend. Dastager et al. 2008
(Microbacteriaceae, Actinomycetales):
Typus: *C. psychrophilum* (Inoue & Komagata) Suzuki et al.
(= *Curtobacterium psychrophilum* Inoue & Komagata)
Erstbeschr.: Suzuki, K.I. et al. (1997), *Cryobacterium*
psychrophilum gen. nov., sp. nov., nom. rev., comb.
nov., an obligately psychrophilic actinomycete to
accommodate "*Curtobacterium psychrophilum*" Inoue and
Komagata 1976, Int. J. Syst. Bacteriol. **47**, 474-478;
Dastager, S.G. et al. (2008), *Cryobacterium*
mesophilum sp. nov., a novel mesophilic bacterium,
Int. J. Syst. Evol. Microbiol. **58**, 1241-1244

Cryptosporangium Tamura et al. 1998 (Kinesporiaceae,
Actinomycetales):
Typus: *C. arvum* Tamura et al.
Erstbeschr.: Tamura, T. et al. (1998), A new genus of the
order Actinomycetales, *Cryptosporangium* gen. nov.,
with descriptions of *Cryptosporangium arvum* sp. nov.
and *Cryptosporangium japonicum* sp. nov., Int. J.
Syst. Bacteriol. **48**, 995-1005

Curtobacterium Yamada & Komagata 1972 (Microbacteriaceae,
Actinomycetales) (kein Mycel bildend):
Lebensweise: Z.T. phytopathogen und von
Quarantänebestimmungen betroffen
Typus: *C. citreum* (Komagata & Iizuka) Yamada & Komagata
(= *Brevibacterium citreum* Komagata & Iizuka)
Erstbeschr.: Yamada, K. u. K. Komagata (1972), Taxonomic
studies on coryneform bacteria, V, Classification of
coryneform bacteria, J. General Applied Microbiol.
18, 417-431
Lit.: Sorauer (1928), 164-166 (*C. flaccumfaciens* als
Bacterium flaccumfaciens)

Dactylosporangium Thiemann et al. 1967 (Micromonosporaceae,
Actinomycetales) (Mycelbildner):
Typus: *D. aurantiacum* Thiemann et al.
Erstbeschr.: Thiemann, J.E. et al. (1967), A new genus of
the Actinoplanaceae: *Dactylosporangium*, gen. nov.
Archiv Mikrobiol., **58**, 42-52

Lit.: Holt et al. (1994), 654

Williams et al. (1989), 2437 u. 2616

Demequina Yi et al. 2007 (incertae sedis, Actinomycetales):

Typus: *D. aestuarii* Yi et al.

Erstbeschr.: Yi, H. et al. (2007), *Demequina aestuarii* gen. nov., sp. nov., a novel actinomycete of the suborder Micrococcineae, and reclassification of *Cellulomonas fermentans* Bagnara et al. 1985 as *Actinotalea fermentans* gen. nov., comb. nov., Int. J. Syst. Evol. Microbiol. **57**, 151-156

Demetria Groth et al. 1997 (Dermacoccaceae, Actinomycetales):

Typus: *D. terragena* Groth et al.

Erstbeschr.: Groth, I. et al. (1997), *Demetria terragena* gen. nov., sp. nov., a new genus of actinomycetes isolated from compost soil, Int. J. Syst. Bacteriol. **47**, 1129-1133

Dermabacter Jones & Collins 1989 (Dermabacteraceae,

Actinomycetales):

Typus: *D. hominis* Jones & Collins

Erstbeschr.: Jones, D. u. M.D. Collins (1989), Taxonomic studies on some human cutaneous coryneform bacteria: description of *Dermabacter hominis* gen. nov., sp. nov., FEMS Microbiol. Lett. **51**, 51-56

Dermacoccus Stackebrandt et al. 1995 (Dermacoccaceae,

Actinomycetales):

Typus: *D. nishinomiyaensis* (Oda) Stackebrandt et al. (= *Micrococcus nishinomiyaensis* Oda)

Erstbeschr.: Stackebrandt, E. et al. (1995), Taxonomic dissection of the genus *Micrococcus*: *Kocuria* gen. nov., *Nesterenkonia* gen. nov., *Kytococcus* gen. nov., *Dermacoccus* gen. nov., and *Micrococcus* Cohn 1872 gen. emend., Int. J. Syst. Bacteriol. **45**, 682-692

Dermatophilus (van Saceghem 1915) Gordon 1964 (= *Dermatophylus* van Saceghem 1915) (Dermatophilaceae, Actinomycetales)

(Mycelbildner):

Typus: *D. congolensis* (van Saceghem) Gordon (= *Dermatophylus congolensis* van Saceghem)

Erstbeschr.: Saceghem, Van, R. (1915), Dermatose contagieuse (Impétigo contagieux), Bull. Soc. Pathol. Exotique **8**, 354-359; Gordon, M.A. (1964), The genus *Dermatophilus*, J. Bacteriol. **88**, 509-522

Lit.: Holt et al. (1994), 651

Williams et al. (1989), 2409

Dietzia Rainey et al. 1995 (Dietziaceae, Actinomycetales)

(kein Mycel bildend):

Typus: *D. maris* (Nesterenko et al.) Rainey et al. (=
Rhodococcus maris Nesterenko et al.)

Erstbeschr.: Rainey, F.A. et al. (1995), *Dietzia*, a new genus including *Dietzia maris* comb. nov., formerly *Rhodococcus maris*, Int. J. Syst. Bacteriol. **45**, 32-36

Elytrosporangium s. *Streptomyces*

Excellospora s. *Actinomadura*

Faenia s. *Saccharopolyspora*

Falcivibrio s. *Mobiluncus*

Frankia Brunch. 1886 (Frankiaceae, Actinomycetales)

(Mycelbildner) [= *Frankiella* Maire & Tison 1909 (non Speschnew 1900; ist *Greeneria*, Coelomyceten)]:

Typus [einzige Art]: *F. subtilis* Brunch. [heute *F. alni* (Woron.) Tubeuf; Basionym: *Schinzia alni* Woron.]

Erstbeschr.: Brunchorst, J. (1886), Über einige Wurzelanschwellungen, besonders diejenigen von *Alnus* und den Elaeagnaceen, Untersuch. Bot. Inst. Tübingen **2**, 151-177 (S. 174)

Lit.: Hawker u. Fraymouth (1951), J. Gen. Microbiol. **5**, 369

Holt et al. (1994), 651

Kirk et al. (2008), 263 (Angaben hier falsch)

Maire u. Tison (1909), AM **7**, 242 (*Frankiella*)

Saccardo (1888), Sylloge Fungorum **7**, 464 (als *Plasmodiophora*)

Tubeuf, K. (1895), Pflanzenkrankheiten durch Kryptogame Parasiten verursacht, Springer, Berlin (599 S.)

Williams et al. (1989), 2410

Woronin, M. (1866), Über die bei der Schwarzerle (*Alnus glutinosa*) und der gewöhnlichen Garten-Lupine (*Lupinus mutabilis*) auftretenden Wurzelanschwellungen, Mém. Acad. Sci. St. Petersburg **10**, 1-10

Friedmanniella Schumann et al. 1997 (Nocardioidaceae, Actinomycetales) (kein Mycel bildend):

Typus: *F. antarctica* Schumann et al.

Erstbeschr.: Schumann, P. et al. (1997), *Friedmanniella antarctica* gen. nov., sp. nov., an LL-diaminopimelic acid-containing actinomycete from Antarctic sandstone, Int. J. Syst. Bacteriol. **47**, 278-283

Frigoribacterium Kämpfer et al. 2000 (Microbacteriaceae, Actinomycetales) (kein Mycel bildend):

Typus: *F. faeni* Kämpfer et al.

Erstbeschr.: Kämpfer, P. et al. (2000), *Frigoribacterium faeni* gen. nov., sp. nov., a novel psychrophilic genus of the family Microbacteriaceae, *Int. J. Syst. Evol. Microbiol.* **50**, 355-363

Frondicola Zhang et al. 2007 [non *Frondicola* Hyde 1992; Lit.: Hyde, K.D. (1992), *J. Linn. Soc., Bot.* **110**(2), 100; sind Pilze der Hyponectriaceae] (Microbacteriaceae, Actinomycetales):

Typus: *F. australicus* Zhang et al.

Erstbeschr.: Zhang, L. et al. (2007), *Frondicola australicus* gen. nov., sp. nov., isolated from decaying leaf litter from a pine forest, *Int. J. Syst. Evol. Microbiol.* **57**, 1177-1182

Geodermatophilus Luedemann 1968 (Geodermatophilaceae, Actinomycetales) (Mycelbildner):

Typus: *G. obscurus* Luedemann

Erstbeschr.: Luedemann, G.M. (1968), *Geodermatophilus*, a new genus of the Dermatophilaceae (Actinomycetales), *J. Bacteriol.* **96**, 1848-1858

Lit.: Holt et al. (1994), 652

Williams et al. (1989), 2406

Georgenia Altenburger et al. 2002 emend. Li et al. 2007 (Beutenbergiaceae, Actinomycetales):

Typus: *G. muralis* Altenburger et al.

Erstbeschr.: Altenburger, P. et al. (2002), *Georgenia muralis* gen. nov., sp. nov., a novel actinobacterium isolated from a medieval wall painting, *Int. J. Syst. Evol. Microbiol.* **52**, 875-881; Li, W.J. et al. (2007), *Georgenia ruanii* sp. nov., a novel actinobacterium isolated from forest soil in Yunnan (China), and emended description of the genus *Georgenia*, *Int. J. Syst. Evol. Microbiol.* **57**, 1424-1428

Glycomyces Labeda et al. 1985 emend. Labeda & Kroppenstedt 2004 (Glycomycetaceae, Actinomycetales) (Mycelbildner):

Typus: *G. harbinensis* Labeda et al.

Erstbeschr.: Labeda, D.P. et al. (1985), *Glycomyces*, a new genus of the Actinomycetales, *Int. J. Syst. Bacteriol.* **35**, 417-421; Labeda, D.P. u. R.M. Kroppenstedt (2004), Emended description of the genus *Glycomyces* and description of *Glycomyces algeriensis* sp. nov., *Glycomyces arizonensis* sp. nov. and *Glycomyces lechevalierae* sp. nov., *Int. J.*

Syst. Evol. Microbiol. **54**, 2343-2346

Lit.: Holt et al. (1994), 701

Williams et al. (1989), 2586

Goodfellowiella Labeda et al. 2008 (Pseudonocardiaceae, Actinomycetales) [= *Goodfellowia* Labeda & Kroppenstedt 2006 nom. illeg.; non *Goodfellowia* Hartert 1903; sind Vögel]:

Typus: *G. coeruleoviolacea* (Preobrazhenskaya & Terekhova)

Labeda et al. (= *Actinomadura coeruleoviolacea*

Preobrazhenskaya & Terekhova)

Erstbeschr.: Labeda, D.P. et al. (2008), Proposal of *Goodfellowiella* gen. nov. to replace the illegitimate genus name *Goodfellowia* Labeda and Kroppenstedt 2006, Int. J. Syst. Evol. Microbiol. **58**, 1047-1048

Gordonia (Tsukamura et al. 1971) Stackebrandt et al. 1989 (= *Gordona* Tsukamura et al. 1971) (Gordoniaceae, Actinomycetales) (Mycelbildner):

Typus: *Gordonia bronchialis* (Tsukamura et al.)

Stackebrandt et al. (= *Gordona bronchialis* Tsukamura et al.)

Erstbeschr.: Stackebrandt, E. et al. (1988), Evidence of phylogenetic heterogeneity within the genus

Rhodococcus: revival of the genus *Gordona*

(Tsukamura), J. Gen. Appl. Microbiol. **34**, 341-348; Stackebrandt, E. et al. (1997), Proposal for a new hierarchic classification system, Actinobacteria classis nov., Int. J. Syst. Bacteriol. **47**, 479-491

Lit.: Holt et al. (1994), 625

Granulicoccus Maszenan et al. 2007 (Propionibacteriaceae, Actinomycetales):

Typus: *G. phenolivorans* Maszenan et al.

Erstbeschr.: Maszenan, A.M. et al. (2007), *Granulicoccus phenolivorans* gen. nov., sp. nov., a Gram-positive, phenol-degrading coccus isolated from phenol-degrading aerobic granules, Int. J. Syst. Evol. Microbiol. **57**, 730-737

Gulosibacter Manaia et al. 2004 (Microbacteriaceae, Actinomycetales):

Typus: *G. molinativorax* Manaia et al.

Erstbeschr.: Manaia, C.M. et al. (2004), *Gulosibacter molinativorax* gen. nov., sp. nov., a molinate-degrading bacterium, and classification of 'Brevibacterium helvolum' DSM 20419 as

Pseudoclavibacter helvolus gen. nov., sp. nov., Int.
J. Syst. Evol. Microbiol. **54**, 783-789

Herbidospora Kudo et al. 1993 (Streptosporangiaceae,
Actinomycetales) (Mycelbildner):
Typus: *H. cretacea* Kudo et al.
Erstbeschr.: Kudo, T. et al. (1993), *Herbidospora* gen.
nov., a new genus of the family Streptosporangiaceae
Goodfellow et al. 1990, Int. J. Syst. Bacteriol. **43**,
319-328

Holophaga Liesack et al. 1995:

Typus: *H. foetida* Liesack et al.
Erstbeschr.: Liesack, W. et al. (1994), *Holophaga foetida*
gen. nov., sp. nov., a new, homoacetogenic bacterium
degrading methoxylated aromatic compounds, Arch.
Microbiol. **162**, 85-90

Hongia s. *Kribella*

Humicoccus Yoon et al. 2007 (Nakamurellaceae,
Actinomycetales):

Typus: *H. flavidus* Yoon et al.
Erstbeschr.: Yoon, J.H. et al. (2007), *Humicoccus*
flavidus gen. nov., sp. nov., isolated from soil,
Int. J. Syst. Evol. Microbiol. **57**, 56-59

Humihabitans Kageyama et al. 2007 (Intrasporangiaceae,
Actinomycetales):

Typus: *H. oryzae* Kageyama et al. 2007
Erstbeschr.: Kageyama, A. et al. (2007), *Humihabitans*
oryzae gen. nov., sp. nov., Int. J. Syst. Evol.
Microbiol. **57**, 2163-2166

Intrasporangium Kalakoutskii et al. 1967 (Intrasporangiaceae,
Actinomycetales) (Mycelbildner):

Typus: *I. calvum* Kalakoutskii et al.
Erstbeschr.: Kalakoutskii, L.V. et al. (1967), A new
genus of the Actinomycetales, *Intrasporangium* gen.
nov., J. General Microbiol. **48**, 79-85

Lit.: Holt et al. (1994), 667
Williams et al. (1989), 2395

Isoptericola Stackebrandt et al. 2004 (Promicromonosporaceae,
Actinomycetales):

Typus: *I. variabilis* (Bakalidou et al.) Stackebrandt et
al. (= *Cellulosimicrobium variabile* Bakalidou et
al.)

Erstbeschr.: Stackebrandt, E. et al. (2004),
Reclassification of *Cellulosimicrobium variabile*
Bakalidou et al. 2002 as *Isoptericola variabilis*

gen. nov., comb. nov., Int. J. Syst. Evol.
Microbiol. **54**, 685-688

Janibacter Martin et al. 1997 (Intrasporangiaceae,
Actinomycetales):

Typus: *J. limosus* Martin et al.

Erstbeschr.: Martin, K. et al. (1997), *Janibacter limosus* gen. nov., sp. nov., a new actinomycete with meso-diaminopimelic acid in the cell wall, Int. J. Syst. Bacteriol. **47**, 529-534

Jiangella Song et al. 2005 (Propionibacteriaceae,
Actinomycetales):

Typus: *J. gansuensis* Song et al.

Erstbeschr.: Song, L. et al. (2005), *Jiangella gansuensis* gen. nov., sp. nov., a novel actinomycete from a desert soil in north-west China, Int. J. Syst. Evol. Microbiol. **55**, 881-884

Jonesia Rocourt & Stackebrandt 1987 (Jonesiaceae,
Actinomycetales):

Typus: *J. denitrificans* (Prévot) Rocourt et al. (=
Listeria denitrificans Prévot)

Erstbeschr.: Rocourt, J. u. E. Stackebrandt in Rocourt, J. et al. (1987), Transfer of *Listeria denitrificans* to a new genus, *Jonesia* gen. nov., as *Jonesia denitrificans* comb. nov., Int. J. Syst. Bacteriol. **37**, 266-270

Lit.: Holt et al. (1994), 632

Kibdelosporangium Shearer et al. 1986 (Pseudonocardiaceae,
Actinomycetales) (Mycelbildner):

Typus: *K. aridum* Shearer et al.

Erstbeschr.: Shearer, M.C. et al. (1986), New genus of the Actinomycetales: *Kibdelosporangium aridum* gen. nov., sp. nov., Int. J. Syst. Bacteriol. **36**, 47-54

Lit.: Holt et al. (1994), 629

Williams et al. (1989), 2590 u. 2616

Kineococcus Yokota et al. 1993 (Kinesporiaceae,
Actinomycetales):

Typus: *K. aurantiacus* Yokota et al.

Erstbeschr.: Yokota, A. et al. (1993), *Kineococcus aurantiacus* gen. nov., sp. nov., a new aerobic, gram-positive, motile coccus with meso-diaminopimelic acid and arabinogalactan in the cell wall, Int. J. Syst. Bacteriol. **43**, 52-57

Kineosphaera Liu et al. 2002 (Dermatophilaceae,
Actinomycetales):

Typus: *K. limosa* Liu et al.

Erstbeschr.: Liu, W.T. et al. (2002), *Kineosphaera limosa* gen. nov., sp. nov., a novel Gram-positive polyhydroxyalkanoate-accumulating coccus isolated from activated sludge, Int. J. Syst. Evol. Microbiol. **52**, 1845-1849

Kineosporia Pagani & Parenti 1978 emend. Kudo et al. 1998

(Kinesporiaceae, Actinomycetales) (Mycelbildner):

Typus: *K. aurantiaca* Pagani & Parenti

Erstbeschr.: Pagani, H. u. F. Parenti (1978),

Kineosporia, a new genus of the order Actinomycetales, Intern. J. Syst. Bact. **28**, 401-406; Kudo, T. et al. (1998), Description of four new species of the genus *Kineosporia*: *Kineosporia succinea* sp. nov., *Kineosporia rhizophila* sp. nov., *Kineosporia mikuniensis* sp. nov. and *Kineosporia rhamnosa* sp. nov., isolated from plant samples, and amended description of the genus *Kineosporia*, Int. J. Syst. Bacteriol. **48**, 1245-1255

Lit.: Holt et al. (1994), 667

Williams et al. (1989), 2504

Kitasatoa s. *Streptomyces*

Kitasatospora Omura et al. 1983 corr. Zhang et al. 1997 (=

Kitasatosporia Omura et al. 1983) (zu *Streptomyces*?)

(Streptomycetaceae, Actinomycetales) (Mycelbildner):

Typus: *K. setae* Omura et al. 1983 corr. Zhang et al. 1997

Erstbeschr.: Zhang, Z. et al. (1997), A proposal to revive the genus *Kitastospora* (Omura, Takahashi, Iwai, and Tanaka 1982), Int. J. Syst. Bacteriol. **47**, 1048-1054

Lit.: Holt et al. (1994), 701

Takahashi, Y. et al. (1982), *Kitasatospora*, a new genus of the order Actinomycetales, J. Antibiot. **35**, 1013-1019

Wellington, E.M.H. et al. (1992), Taxonomic status of *Kitasatosporia*, and proposal unification with *Streptomyces* on the basis of phenotypic and 16S rRNA analysis and emendation of *Streptomyces* Waksman and Henrici 1943, Int. J. Syst. Bacteriol. **42**, 156-160

Williams et al. (1989), 2594 u. 2616

Knoellia Groth et al. 2002 (Intrasporangiaceae, Actinomycetales):

Typus: *K. sinensis* Groth et al. 2002

Erstbeschr.: Groth, I. et al. (2002), *Knoellia sinensis*

gen. nov., sp. nov. and *Knoellia subterranea* sp. nov., two novel actinobacteria isolated from a cave, Int. J. Syst. Evol. Microbiol. **52**, 77-84

Kocuria Stackebrandt et al. 1995 (= *Pelczaria*)

(Micrococcaceae, Actinomycetales):

Typus: *K. rosea* (Flügge) Stackebrandt et al. (= *Micrococcus roseus* Flügge)

Erstbeschr.: Stackebrandt, E. et al. (1995), Taxonomic dissection of the genus *Micrococcus*: *Kocuria* gen. nov., *Nesterenkonia* gen. nov., *Kytococcus* gen. nov., *Dermacoccus* gen. nov., and *Micrococcus* Cohn 1872 gen. emend., Int. J. Syst. Bacteriol. **45**, 682-692

Krasilnikovia Ara & Kudo 2007 (Micromonosporaceae,

Actinomycetales):

Typus: *K. cinnamomea* Ara & Kudo

Erstbeschr.: Ara, I. u. T. Kudo (2007), *Krasilnikovia* gen. nov., a new member of the family Micromonosporaceae and description of *Krasilnikovia cinnamomea* sp. nov., Actinomycetologica **21**, 1-10

Kribbella Park et al. 1999 emend. Sohn et al. 2003 (= *Hongia*)

(Nocardioidaceae, Actinomycetales):

Typus: *K. flavigena* Park et al.

Erstbeschr.: Park, Y.H. et al. (1999), Classification of "Nocardioides fulvus" IFO (now NBRC) 14399 and *Nocardioides* sp. ATCC 39419 in *Kribbella* gen. nov., as *Kribbella flavigena* sp. nov. and *Kribbella sandramycini* sp. nov., Int. J. Syst. Bacteriol. **49**, 743-752; Sohn, K. et al. (2003), Transfer of *Hongia koreensis* Lee et al. 2000 to the genus *Kribbella* Park et al. 1999 as *Kribbella koreensis* comb. nov., Int. J. Syst. Evol. Microbiol. **53**, 1005-1007

Lit.: Lee, S.D. et al. (2000), *Hongia* gen. nov., a new genus of the order Actinomycetales, Int. J. Syst. Evol. Microbiol. **50**, 191-199

Sohn, K. et al. (2003), Transfer of *Hongia koreensis* Lee et al. 2000 to the genus *Kribbella* Park et al. 1999 as *Kribbella koreensis* comb. nov., Int. J. Syst. Evol. Microbiol. **53**, 1005-1007

Kribbia Jung et al. 2006 (Intrasporangiaceae,

Actinomycetales):

Typus: *K. dieselivorans* Jung et al.

Erstbeschr.: Jung, S.Y. et al. (2006), *Kribbia dieselivorans* gen. nov., sp. nov., a novel member of the family Intrasporangiaceae, Int. J. Syst. Evol.

Microbiol. **56**, 2427-2432

Kutzneria Stackebrandt et al. 1994 (Pseudonocardiaceae,
Actinomycetales) (Mycelbildner):

Typus: *K. viridogrisea* (Okuda et al.) Stackebrandt et al.
(= *Streptosporangium viridogriseum* Okuda et al.)

Erstbeschr.: Stackebrandt, E. et al. (1994), Transfer of
Streptosporangium viridogriseum (Okuda et al. 1966),
Streptosporangium viridogriseum subsp. *kofuense*
(Nonomura and Ohara 1969), and *Streptosporangium*
albidum (Furumai et al. 1968) to *Kutzneria* gen. nov.
as *Kutzneria viridogrisea* comb. nov., *Kutzneria*
kofuensis comb. nov., and *Kutzneria albida* comb.
nov., respectively, and emendation of the genus
Streptosporangium, *Int. J. Syst. Bacteriol.* **44**, 265-
269

Kytococcus Stackebrandt et al. 1995 (Dermacoccaceae,
Actinomycetales):

Typus: *K. sedentarius* (ZoBell & Upham) Stackebrandt et
al. (= *Micrococcus sedentarius* ZoBell & Upham)

Erstbeschr.: Stackebrandt, E. et al. (1995), Taxonomic
dissection of the genus *Micrococcus*: *Kocuria* gen.
nov., *Nesterenkonia* gen. nov., *Kytococcus* gen. nov.,
Dermacoccus gen. nov., and *Micrococcus* Cohn 1872
gen. emend., *Int. J. Syst. Bacteriol.* **45**, 682-692

Lapilllicoccus Lee & Lee 2007 (Intrasporangiaceae,
Actinomycetales):

Typus: *L. jejuensis* Lee & Lee

Erstbeschr.: Lee, S.D. u. D.W. Lee (2007), *Lapilllicoccus*
jejuensis gen. nov., sp. nov., a novel
actinobacterium of the family Intrasporangiaceae,
isolated from stone, *Int. J. Syst. Evol. Microbiol.*
57, 2794-2798

Lebedella (Microbacteriaceae, Actinomycetales) [nicht in der
LPSN]

Lechevalieria Labeda et al. 2001 (Actinosynnemataceae,
Actinomycetales):

Typus: *L. aerocolonigenes* (Shinobu & Kawato) Labeda et
al. (= *Streptomyces aerocolonigenes* Shinobu &
Kawato)

Erstbeschr.: Labeda, D.P. et al. (2001), Revival of the
genus *Lentzea* and proposal for *Lechevalieria* gen.
nov., *Int. J. Syst. Evol. Microbiol.* **51**, 1045-1050

Leifsonia Evtushenko et al. 2000 (Microbacteriaceae,
Actinomycetales):

Typus: *L. aquatica* (Leifson) Evtushenko et al. (=
Corynebacterium aquaticum Leifson)
Erstbeschr.: Evtushenko, L.I. et al. (2000), *Leifsonia*
poae gen. nov., sp. nov., isolated from nematode
galls on *Poa annua*, and reclassification of
'*Corynebacterium aquaticum*' Leifson 1962 as
Leifsonia aquatica (ex Leifson 1962) gen. nov., nom.
rev., comb. nov. and *Clavibacter xyli* Davis et al.
1984 with two subspecies as *Leifsonia xyli* (Davis et
al. 1984) gen. nov., comb. nov., Int. J. Syst. Evol.
Microbiol. **50**, 371-380

Lit.: Suzuki, K. et al. (1999), *Leifsonia* gen. nov., a
genus for 2,4-diaminobutyric acid-containing
actinomycetes to accomodate "*Corynebacterium*
aquaticum" Leifson 1962 and *Clavibacter xyli* subsp.
cynodontis Davis et al. 1984, J. Gen. Appl.
Microbiol. **45**, 253-262

Lentzea s. *Saccharothrix*

Leucobacter Takeuchi et al. 1996 (Microbacteriaceae,
Actinomycetales) (kein Mycel bildend):

Typus: *L. komagatae* Takeuchi et al.

Erstbeschr.: Takeuchi, M. et al. (1996), *Leucobacter*
komagatae gen. nov., sp. nov., a new aerobic gram-
positive, nonsporulating rod with 2,4-diaminobutyric
acid in the cell wall, Int. J. Syst. Bacteriol. **46**,
967-971

Longispora Matsumoto et al. 2003 (Micromonosporaceae,

Actinomycetales):

Typus: *L. albida* Matsumoto et al.

Erstbeschr.: Matsumoto, A. et al. (2003), *Longispora*
albida gen. nov., sp. nov., a novel genus of the
family Micromonosporaceae, Int. J. Syst. Evol.
Microbiol. **53**, 1553-1559

Luedemannella Ara & Kudo 2007 (Micromonosporaceae,

Actinomycetales):

Typus: *L. helvata* Ara & Kudo

Erstbeschr.: Ara, I. u. T. Kudo (2007), *Luedemannella*
gen. nov., a new member of the family
Micromonosporaceae and description of *Luedemannella*
helvata sp. nov. and *Luedemannella flava* sp. nov.,
J. Gen. Appl. Microbiol. **53**, 39-51

Luteococcus Tamura et al. 1994 emend. Collins et al. 2000

(Propionibacteriaceae, Actinomycetales) (kein Mycel
bildend):

Typus: *L. japonicus* Tamura et al.

Erstbeschr.: Tamura, T. et al. (1994), *Luteococcus japonicus* gen. nov., sp. nov., a new gram-positive coccus with LL-diaminopimelic acid in the cell wall, *Int. J. Syst. Bacteriol.* **44**, 348-356; Collins, M.D. et al. (2000), *Luteococcus peritonei* sp. nov., isolated from the human peritoneum, *Int. J. Syst. Evol. Microbiol.* **50**, 179-181

Marmoricola Urzi et al. 2000 emend. Dastager et al. 2008
(Nocardoidaceae, Actinomycetales):

Typus: *M. aurantiacus* Urzi et al.

Erstbeschr.: Urzi, C. et al. (2000), *Marmoricola aurantiacus* gen. nov., sp. nov., a coccoid member of the family Nocardoidaceae isolated from a marble statue, *Int. J. Syst. Evol. Microbiol.* **50**, 529-536; Dastager, S.G. et al. (2008), *Marmoricola bigeumensis* sp. nov., a member of the family Nocardoidaceae, *Int. J. Syst. Evol. Microbiol.* **58**, 1060-1063

Microbacterium Orla-Jensen 1919 emend. Takeuchi & Hatano 1998
(= *Aureobacterium*) (Microbacteriaceae, Actinomycetales)
(kein Mycel bildend):

Typus: *M. lacticum* Orla-Jensen

Erstbeschr.: Orla-Jensen, S. (1919), The lactic acid bacteria, Høst, Copenhagen (196 S.); Takeuchi, M. u. K. Hatano (1998), Union of the genera *Microbacterium* Orla-Jensen and *Aureobacterium* Collins et al. in a redefined genus *Microbacterium*, *Int. J. Syst. Bacteriol.* **48**, 739-747

Lit.: Collins, M.D. et al. (1983), Classification of some coryneform bacteria in a new genus *Aureobacterium*, *Syst. Appl. Microbiol.* **4**, 236-252 (*Aureobacterium*)

Takeuchi, M. u. K. Hatano (1998), Union of the genera *Microbacterium* Orla-Jensen and *Aureobacterium* Collins et al. in a redefined genus *Microbacterium*, *Int. J. Syst. Bacteriol.* **48**, 739-747

Yokota, A. et al. (1993), Proposal of six new species in the genus *Aureobacterium* and transfer of *Flavobacterium esteraromaticum* Omelianski to the genus *Aureobacterium* as *Aureobacterium esteraromaticum* comb. nov., *Int. J. Syst. Bacteriol.* **43**, 555-564 (*Aureobacterium*)

Microbispora Nonomura & Ohara 1957 emend. Zhang et al. 1998
(Streptosporangiaceae, Actinomycetales) (Mycelbildner):

Typus: *M. rosea* Nonomura & Ohara
Erstbeschr.: Nonomura, H. u. Y. Ohara (1957),
Distribution of Actinomycetes in the soil, II,
Microbispora, a new genus of the Streptomycetaceae,
J. Fermentation Technol. **35**, 307-311; Zhang, Z. et
al. (1998), Reclassification of *Thermomonospora* and
Microtetraspora, Int. J. Syst. Bacteriol. **48**, 411-
422

Lit.: Holt et al. (1994), 677

Nonomura, H. u. Y. Ohara (1971), Distribution of
actinomycetes in soil, IX, New species of the genus
Microbispora and *Microtetraspora* and their isolation
methods, J. Fermentation Technol. **49**, 887-894

Williams et al. (1989), 2526 u. 2616

Microcella Tiago et al. 2005 emend. Tiago et al. 2006

(Microbacteriaceae, Actinomycetales):

Typus: *M. putealis* Tiago et al.

Erstbeschr.: Tiagom, I. et al. (2005), *Microcella*
putealis gen. nov., sp. nov., a Gram-positive
alkaliphilic bacterium isolated from a nonsaline
alkaline groundwater, Syst. Appl. Microbiol. **28**,
479-487; Tiago, I. et al. (2006), *Microcella*
alkaliphila sp. nov., a novel member of the family
Microbacteriaceae isolated from a non-saline
alkaline groundwater, and emended description of the
genus *Microcella*, Int. J. Syst. Evol. Microbiol. **56**,
2313-2316

Micrococcus Cohn 1872 emend. Wieser et al. 2002

(Micrococcaceae, Actinomycetales) (kein Mycel bildend):

Typus: *M. luteus* (Schröt.) Cohn (= *Bacteridium luteum*
Schröt.)

Erstbeschr.: Cohn, F. (1872), Untersuchungen über
Bakterien, Beiträge Biologie Pflanzen **1**, 127-224;
Wieser, M. et al. (2002), Emended descriptions of
the genus *Micrococcus*, *Micrococcus luteus* (Cohn
1872) and *Micrococcus lylae* (Kloos et al. 1974),
Int. J. Syst. Evol. Microbiol. **52**, 629-637

Lit.: Stackebrandt, E. et al. (1995), Taxonomic
dissection of the genus *Micrococcus*: *Kocuria* gen.
nov., *Nesterenkonia* gen. nov., *Kytococcus* gen. nov.,
Dermacoccus gen. nov., and *Micrococcus* Cohn 1872
gen. emend., Int. J. Syst. Bacteriol. **45**, 682-692

Microellobosporia s. *Streptomyces*

Microlunatus Nakamura et al. 1995 (Propionibacteriaceae,

Actinomycetales) (kein Mycel bildend):

Typus: *M. phosphovorus* Nakamura et al.

Erstbeschr.: Nakamura, K. et al. (1995), *Microlunatus phosphovorus* gen. nov., sp. nov., a new gram-positive polyphosphate-accumulating bacterium isolated from activated sludge, *Int. J. Syst. Bacteriol.* **45**, 17-22

Micromonospora Ørskov 1923 emend. Kasai et al. 2000

(Micromonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *M. chalcea* (Foulerton 1905) Ørskov 1923 (= *Streptothrix chalcea* Foulerton 1905)

Erstbeschr.: Ørskov, J. (1923), Investigations into the morphology of the ray fungi, Levin u. Munksgaard, Copenhagen; Kasai, H. et al. (2000), Intrageneric relationships among *Micromonospora* species deduced from gyrB-based phylogeny and DNA relatedness, *Int. J. Syst. Evol. Microbiol.* **50**, 127-134

Lit.: Holt et al. (1994), 654

Lee, S.D. et al. (1999), A phylogenetic analysis of the genus *Catellatospora* based on 16S ribosomal DNA sequences, including transfer of *Catellatospora matsumotoense* to the genus *Micromonospora* as *Micromonospora matsumotoense* comb. nov., FEMS *Microbiol. Lett.* **178**, 349-354

Williams et al. (1989), 2442 u. 2616

Micropolyspora Lechevalier et al. 1961 (vgl. *Nocardia* u.

Saccharopolyspora) (Nocardiaceae, Actinomycetales)

(Mycelbildner):

Typus: *M. brevicatena* Lechevalier et al.

Erstbeschr.: Lechevalier, H.A. et al. (1961), A new genus of the Actinomycetales: *Micropolyspora* gen. nov., *J. General Microbiol.* **26**, 11-18

Lit.: Goodfellow, M. u. T. Pirouz (1982), Numerical classification of sporoactinomyces containing meso-diaminopimelic acid in the cell wall, *J. Gen. Microbiol.* **128**, 503-527

McCarthy, A.J. et al. (1983), Conservation of the name *Micropolyspora* Lechevalier, Solotorovsky, and McDurmott and designation of *Micropolyspora faeni* Cross, Maciver, and Lacey as the type species of the genus; request for an opinion, *Int. J. Syst. Bacteriol.* **33**, 430-433

Micropruina Shintani et al. 2000 (Nocardioidaceae,

Actinomycetales):

Typus: *M. glycogenica* Shintani et al.

Erstbeschr.: Shintani, T. et al. (2000), *Micropruina glycogenica* gen. nov., sp. nov., a new Gram-positive glycogen-accumulating bacterium isolated from activated sludge, *Int. J. Syst. Evol. Microbiol.* **50**, 201-207

Microterricola Matsumoto et al. 2008 (Microbacteriaceae, Actinomycetales):

Typus: *M. viridarii* Matsumoto et al.

Erstbeschr.: Matsumoto, A. et al. (2008), *Microterricola viridarii* gen. nov., sp. nov., a new member of the family Microbacteriaceae, *Int. J. Syst. Evol. Microbiol.* **58**, 1019-1023

Microtetraspora Thiemann et al. 1968 emend. Zhang et al. 1998 (Streptosporangiaceae, Actinomycetales) (Mycelbildner):

Typus: *M. glauca* Thiemann et al.

Erstbeschr.: Thiemann, J.E. et al. (1968), A new genus of the Actinomycetales: *Microtetraspora* gen. nov., *J. General Microbiol.* **50**, 295-303; Zhang, Z. et al. (1998), Reclassification of *Thermomonospora* and *Microtetraspora*, *Int. J. Syst. Bacteriol.* **48**, 411-422

Lit.: Holt et al. (1994), 677

Nonomura, H. u. Y. Ohara (1971), Distribution of actinomycetes in soil, IX, New species of the genus *Microbispora* and *Microtetraspora* and their isolation methods, *J. Fermentation Technol.* **49**, 887-894

Williams et al. (1989), 2531

Millisia Sod dell et al. 2006 (Gordoniaceae, Actinomycetales):

Typus: *M. brevis* Sod dell et al.

Erstbeschr.: Sod dell, J.A. et al. (2006), *Millisia brevis* gen. nov., sp. nov., an actinomycete isolated from activated sludge foam, *Int. J. Syst. Evol. Microbiol.* **56**, 739-744

Mobiluncus Spiegel & Roberts 1984 emend. Hoyle s et al. 2004 (= *Falcivibrio*) (Actinomycetaceae, Actinomycetales) (Mycelbildner):

Typus: *M. curtisi* Spiegel & Roberts

Erstbeschr.: Spiegel, C.A. u. M. Roberts (1984), *Mobiluncus* gen. nov., *Mobiluncus curtisi* subsp. *curtisi* sp. nov., *Mobiluncus curtisi* subsp. *holmesii* subsp. nov., and *Mobiluncus mulieris* sp. nov., curved rods from the human vagina, *Int. J. Syst. Bacteriol.* **34**, 177-184; Hoyle, L. et al.

(2004), Transfer of members of the genus *Falcivibrio* to the genus *Mobiluncus*, and emended descriptions of the genus *Mobiluncus*, *Syst. Appl. Microbiol.* **27**, 72-83

Lit.: Hammann, R., A. Kronibus, A. Viebahn u. H. Brandis (1984), *Falcivibrio grandis* gen. nov. sp. nov., and *Falcivibrio vaginalis* gen. nov. sp. nov., a new genus and species to accommodate anaerobic motile curved rods formerly described as "Vibrio mulieris" (Prévot 1940) Breed et al. 1948, *Syst. Appl. Microbiol.* **5**, 81-96

Modestobacter Mevs et al. 2000 emend. Reddy et al. 2007 (Geodermatophilaceae, Actinomycetales):

Typus: *M. multiseptatus* Mevs et al.

Erstbeschr.: Mevs, U. et al. (2000), *Modestobacter multiseptatus* gen. nov., sp. nov., a budding actinomycete from soils of the Asgard Range (Transantarctic Mountains), *Int. J. Syst. Evol. Microbiol.* **50**, 337-346; Reddy, G.S.N. et al. (2007), *Modestobacter versicolor* sp. nov., an actinobacterium from biological soil crusts that produces melanins under oligotrophy, with emended descriptions of the genus *Modestobacter* and *Modestobacter multiseptatus* Mevs et al. 2000, *Int. J. Syst. Evol. Microbiol.* **57**, 2014-2020

Myceligerans Cui et al. 2004 (Promicromonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *M. xiliogouense* Cui et al.

Erstbeschr.: Cui, X. et al. (2004), *Myceligerans xiliogouense* gen. nov., sp. nov., a novel hyphae-forming member of the family Promicromonosporaceae, *Int. J. Syst. Evol. Microbiol.* **54**, 1287-1293

Mycetocola Tsukamoto et al. 2001 (Microbacteriaceae, Actinomycetales) (kein Mycel bildend):

Typus: *M. saprophilus* Tsukamoto et al.

Erstbeschr.: Tsukamoto, T. et al. (2001), Proposal of *Mycetocola* gen. nov. in the family Microbacteriaceae and three new species, *Mycetocola saprophilus* sp. nov., *Mycetocola tolaasinivorans* sp. nov. and *Mycetocola lacteus* sp. nov., isolated from cultivated mushroom, *Pleurotus ostreatus*, *Int. J. Syst. Evol. Microbiol.* **51**, 937-944

Mycobacterium Lehmann & Neumann 1896 (Mycobacteriaceae, Actinomycetales) (Mycelbildner, doch Mycel sehr rudimentär

od. fehlend) :

Typus: *M. tuberculosis* (Zopf) Lehmann & Neumann (=
Bacterium tuberculosis Zopf)

Erstbeschr.: Lehmann, K.B. u. R. Neumann (1896), Atlas
und Grundriss der Bakteriologie und Lehrbuch der
speciellen bakteriologischen Diagnostik, 1. Aufl.,
Lehmann, München

Nakamurella Tao et al. 2004 [= *Microsphaera* Yoshimi et al.
1996; non *Microsphaera* (Wallr.) Lév., sind Mehltau-Pilze,
die heute zu *Erysiphe* gehören (s. Pyrenomyceten-Datei)]
(*Nakamurellaceae*, *Actinomycetales*):

Typus: *N. multipartita* (Yoshimi et al.) Tao et al. (=
Microsphaera multipartita Yoshimi et al.)

Erstbeschr.: Tao, T.S. et al. (2004), Proposal of
Nakamurella gen. nov. as a substitute for the
bacterial genus *Microsphaera* Yoshimi et al. 1996 and
Nakamurellaceae fam. nov. as a substitute for the
illegitimate bacterial family *Microsphaeraceae*
Rainey et al. 1997, Int. J. Syst. Evol. Microbiol.
54, 999-1000

Nesterenkonia Stackebrandt et al. 1995 emend. Li et al. 2005
(*Micrococcaceae*, *Actinomycetales*):

Typus: *N. halobia* (Onishi & Kamekura) Stackebrandt et al.
(= *Micrococcus halobius* Onishi & Kamekura)

Erstbeschr.: Stackebrandt, E. et al. (1995), Taxonomic
dissection of the genus *Micrococcus*: *Kocuria* gen.
nov., *Nesterenkonia* gen. nov., *Kytococcus* gen. nov.,
Dermacoccus gen. nov., and *Micrococcus* Cohn 1872
gen. emend., Int. J. Syst. Bacteriol. **45**, 682-692;
Li, W.J. et al. (2005), *Nesterenkonia sandarakina*
sp. nov. and *Nesterenkonia lutea* sp. nov., novel
actinobacteria, and emended description of the genus
Nesterenkonia, Int. J. Syst. Evol. Microbiol. **55**,
463-466

Nocardia Trevisan 1889 (vgl. *Micropolyspora*) (*Nocardiaceae*,
Actinomycetales) (Mycelbildner):

Typus: *N. asteroides* (Eppinger) Blanchard (= *Cladothrix*
asteroides Eppinger)

Erstbeschr.: Trevisan, V. (1889), Generi e le Specie
delle Batteriacee, Zanaboni u. Gabuzzi, Milano

Lit.: Goodfellow, M. u. T. Pirouz (1982), Numerical
classification of sporoactinomyces containing meso-
diaminopimelic acid in the cell wall, J. Gen.
Microbiol. **128**, 503-527 (*Micropolyspora*)

Holt et al. (1994), 626

Williams et al. (1989), 2350 u. 2616

Nocardiooides Prauser 1976 (Nocardioidaceae, Actinomycetales)
(Mycelbildner):

Typus: *N. albus* Prauser

Erstbeschr.: Prauser, H. (1976), *Nocardiooides*, a new genus of the order Actinomycetales, Int. J. Syst. Bact. **26**, 58-65

Lit.: Holt et al. (1994), 631

Williams et al. (1989), 2371

Nocardiopsis (Brocq-Rousseau 1904) Meyer 1976

(Nocardiopsidaceae, Actinomycetales) (Mycelbildner):

Typus: *N. dassonvillei* (Brocq-Rousseau) Meyer (= *Streptothrix dassonvillei* Brocq-Rousseau)

Erstbeschr.: Meyer, J. (1976), *Nocardiopsis*, a new genus of the order Actinomycetales, Int. J. Syst. Bact. **26**, 487-493; Brocq-Rousseau, D. (1904), Sur un *Streptothrix* cause de l'altération desavoines moisies, Rev. Gén. Bot. **16**, 219-230

Lit.: Holt et al. (1994), 693

Williams et al. (1989), 2562

Nonomuraea Zhang et al. 1998 corr. Chiba et al. 1999 (= *Nonomuria*) (Streptosporangiaceae, Actinomycetales)
(Mycelbildner):

Typus: *N. pusilla* (Nonomura & Ohara) Zhang et al. (= *Actinomadura pusilla* Nonomura & Ohara)

Erstbeschr.: Zhang, Z. et al. (1998), Reclassification of *Thermomonospora* and *Microtetraspora*, Int. J. Syst. Bact. **48**, 411-422; Chiba, S. et al. (1999), Taxonomic re-evaluation of 'Nocardiopsis' sp. K-252T (= NRRL 15532T): a proposal to transfer this strain to the genus *Nonomuraea* as *Nonomuraea longicatena* sp. nov., Int. J. Syst. Bact. **49**, 1623-1630

Oerskovia Prauser et al. 1970 emend. Stackebrandt et al. 2002 (vgl. *Cellulomonas*) (Cellulomonadaceae, Actinomycetales)
(Mycelbildner):

Typus: *O. turbata* (Erikson) Prauser et al. (= *Nocardia turbata* Erikson)

Erstbeschr.: Prauser, H. et al. (1970), Description of *Oerskovia* gen. n. to harbor Ørskov's motile *Nocardia*, Appl. Microbiol. **19**, 534; Stackebrandt, E. et al. (2002), Re-evaluation of the status of the genus *Oerskovia*, reclassification of *Promicromonospora enterophila* (Jager et al. 1983) as

Oerskovia enterophila comb. nov. and description of
Oerskovia jenensis sp. nov. and *Oerskovia*
paurometabola sp. nov., Int. J. Syst. Evol.
Microbiol. **52**, 1105-1111

Lit.: Holt et al. (1994), 632

Williams et al. (1989), 2379

Okibacterium Evtushenko et al. 2002 (Microbacteriaceae,
Actinomycetales) (kein Mycel bildend):
Typus: *O. fritillariae* Evtushenko et al.
Erstbeschr.: Evtushenko, L.I. et al. (2002), *Okibacterium*
fritillariae gen. nov., sp. nov., a novel genus of
the family Microbacteriaceae, Int. J. Syst. Evol.
Microbiol. **52**, 987-993

Oospora: Dieser Name von *Oidium*-ähnlichen Hyphomyceten wurde
in der Vergangenheit verschiedentlich auch für
Actinomyceten benutzt

Ornithinicoccus Groth et al. 1999 (Intrasporangiaceae,
Actinomycetales):
Typus: *O. hortensis* Groth et al.
Erstbeschr.: Groth, I. et al. (1999), *Ornithinicoccus*
hortensis gen. nov., sp. nov., a soil actinomycete
which contains L-ornithine, Int. J. Syst. Bacteriol.
49, 1717-1724

Ornithinimicrobium Groth et al. 2001 (Intrasporangiaceae,
Actinomycetales):
Typus: *O. humiphilum* Groth et al. 2001
Erstbeschr.: Groth, I. et al. (2001), *Ornithinimicrobium*
humiphilum gen. nov., sp. nov., a novel soil
actinomycete with L-ornithine in the peptidoglycan,
Int. J. Syst. Evol. Microbiol. **51**, 81-87

Oryzihumus Kageyama et al. 2005 (Intrasporangiaceae,
Actinomycetales):
Typus: *O. leptocrescens* Kageyama et al.
Erstbeschr.: Kageyama, A. et al. (2005), *Oryzihumus*
leptocrescens gen. nov., sp. nov., Int. J. Syst.
Evol. Microbiol. **55**, 2555-2559

Phycicoccus Lee 2006 (Intrasporangiaceae, Actinomycetales):
Typus: *P. jejuensis* Lee
Erstbeschr.: Lee, S.D. (2006), *Phycicoccus jejuensis* gen.
nov., sp. nov., an actinomycete isolated from
seaweed, Int. J. Syst. Evol. Microbiol. **56**, 2369-
2373

Pilimelia Kane 1966 (Micromonosporaceae, Actinomycetales)
(Mycelbildner):

Typus: *P. terevasa* Kane

Erstbeschr.: Kane, W.D. (1966), A new genus of the Actinoplanaceae, *Pilimelia*, with a description of two species, *Pilimelia terevasa* and *Pilimelia anulata*, J. Elisha Mitchell Sci. Soc. **82**, 220-230

Lit.: Holt et al. (1994), 654

Williams et al. (1989), 2433

Pimelobacter Suzuki & Komagata 1983 (Nocardioidaceae, Actinomycetales):

Typus: *P. simplex* (Jensen) Suzuki & Komagata (= *Corynebacterium simplex* Jensen)

Erstbeschr.: Suzuki, K. u. K. Komagata (1983), *Pimelobacter* gen. nov., a new genus of coryneform bacteria with LL-diaminopimelic acid in the cell wall, J. Gen. Appl. Microbiol. **29**, 59-71

Planobispora (*Planibispora*) Thiemann & Beretta 1968

(Streptosporangiaceae, Actinomycetales) (Mycelbildner):

Typus: *P. longispora* Thiemann & Beretta 1968

Erstbeschr.: Thiemann, J.E. u. G. Beretta (1968), A new genus of the Actinoplanaceae: *Planobispora* gen. nov., Arch. Mikrobiol. **62**, 157-166

Lit.: Holt et al. (1994), 678

Williams et al. (1989), 2536

Planomonospora Thiemann et al. 1967 (Streptosporangiaceae, Actinomycetales) (Mycelbildner):

Typus: *P. parontospora* Thiemann et al.

Erstbeschr.: Thiemann, J.E. et al. (1967), A new genus of the Actinoplanaceae: *Planomonospora*, gen. nov., Giornale Microbiol. **15**, 27-38

Lit.: Holt et al. (1994), 678

Williams et al. (1989), 2539

Planopolyspora s. *Catenuloplanes*

Planotetraspora Runmao et al. 1993 emend. Tamura & Sakane 2004 (Streptosporangiaceae, Actinomycetales) (Mycelbildner):

Typus: *P. mira* Runmao et al.

Erstbeschr.: Runmao, H. et al. (1993), A new genus of actinomycetes, *Planotetraspora* gen. nov., Int. J. Syst. Bact. **43**, 468-470; Tamura, T. u. T. Sakane (2004), *Planotetraspora silvatica* sp. nov. and emended description of the genus *Planotetraspora*, Int. J. Syst. Evol. Microbiol. **54**, 2053-2056

Plantibacter Behrendt et al. 2002 (Microbacteriaceae, Actinomycetales):

Typus: *P. flavus* Behrendt et al.

Erstbeschr.: Behrendt, U. et al. (2002), Diversity of grass-associated Microbacteriaceae isolated from the phyllosphere and litter layer after mulching the sward; polyphasic characterization of *Subtercola pratensis* sp. nov., *Curtobacterium herbarum* sp. nov. and *Plantibacter flavidus* gen. nov., sp. nov., Int. J. Syst. Evol. Microbiol. **52**, 1441-1454

Polymorphospora Tamura et al. 2006 (Micromonosporaceae, Actinomycetales):

Typus: *P. rubra* Tamura et al. 2006

Erstbeschr.: Tamura, T. et al. (2006), A new genus of the family Micromonosporaceae, *Polymorphospora* gen. nov., with description of *Polymorphospora rubra* sp. nov., Int. J. Syst. Evol. Microbiol. **56**, 1959-1964

Prauserella Kim & Goodfellow 1999 emend. Li et al. 2003

(Pseudonocardiaceae, Actinomycetales) (Mycelbildner):

Typus: *P. rugosa* (Lechevalier et al.) Kim & Goodfellow (Basionym?)

Erstbeschr.: Kim, S.B. u. M. Goodfellow (1999), Reclassification of *Amycolatopsis rugosa* Lechevalier et al. 1986 as *Prauserella rugosa* gen. nov., comb. nov., Int. J. Syst. Bact. **49**, 507-512; Li, W.J. et al. (2003), *Prauserella halophila* sp. nov. and *Prauserella alba* sp. nov., moderately halophilic actinomycetes from saline soil, Int. J. Syst. Evol. Microbiol. **53**, 1545-1549

Promicromonospora Krasilnikov et al. 1961

(Promicromonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *P. citrea* Krasilnikov et al.

Erstbeschr.: Krasilnikov, N.A. et al. (1961), A new genus of Actinomycetales, *Promicromonospora* gen. nov., Bull. Acad. Sci. USSR, Ser. Biol., **1**, 107-112

Lit.: Holt et al. (1994), 633

Williams et al. (1989), 2392

Propionibacterium Orla-Jensen 1909 emend. Charfreitag et al. 1988 (= *Arachnia*) (Propionibacteriaceae, Actinomycetales) (nur z.T. Mycelbildner):

Typus: *P. freudenreichii* van Niel

Erstbeschr.: Orla-Jensen, S. (1909), Die Hauptlinien des natürlichen Bakteriensystems, Centralbl. Bakt., Parasitenk., Infektionskr. Hygiene, Abt. 2, **22**, 305-346; Charfreitag, O. et al. (1988), Reclassification of *Arachnia propionica* as *Propionibacterium propionicus* comb. nov., Int. J. Syst. Bact. **38**, 354-

Lit.: Pine, L. u. L.K. Georg (1969), Reclassification of *Actinomyces propionicus*, Intern. J. Syst. Bact. **19**, 267-272 (Arachnia)

Propionicicella Bae et al. 2006 (Nocardioidaceae,
Actinomycetales):

Typus: *P. superfundia* Bae et al.

Erstbeschr.: Bae, H.S. et al. (2006), *Propionicicella superfundia* gen. nov., sp. nov., a chlorosolvent-tolerant propionate-forming, facultative anaerobic bacterium isolated from contaminated groundwater, Syst. Appl. Microbiol. **29**, 404-413

Propionicimonas Akasaka et al. 2003 (Nocardioidaceae,
Actinomycetales):

Typus: *P. paludicola* Akasaka et al.

Erstbeschr.: Akasaka, H. et al. (2003), *Propionicimonas paludicola* gen. nov., sp. nov., a novel facultatively anaerobic, Gram-positive, propionate-producing bacterium isolated from plant residue in irrigated rice-field soil, Int. J. Syst. Evol. Microbiol. **53**, 1991-1998

Propioniferax Yokota et al. 1994 (Propionibacteriaceae,
Actinomycetales) (kein Mycel bildend):

Typus: *P. innocua* (Pitcher & Collins) Yokota et al. (= *Propionibacterium innocuum* Pitcher & Collins)

Erstbeschr.: Yokota, A. et al. (1994), Transfer of *Propionibacterium innocuum* Pitcher and Collins 1991 to *Propioniferax* gen. nov. as *Propioniferax innocua* comb. nov., Int. J. Syst. Bact. **44**, 579-582

Propionimicrobium Stackebrandt et al. 2002

(Propionibacteriaceae, Actinomycetales):

Typus: *P. lymphophilum* (Torrey) Johnson & Cummins (= *Bacillus lymphophilus* Torrey)

Erstbeschr.: Stackebrandt, E. et al. (2002), *Propionimicrobium* gen. nov., a new genus to accommodate *Propionibacterium lymphophilum* (Torrey 1916) Johnson and Cummins 1972 as *Propionimicrobium lymphophilum* comb. nov., Int. J. Syst. Evol. Microbiol. **52**, 1925-1927

Pseudoamycolata s. *Pseudonocardia*

Pseudoclavibacter Manaia et al. 2004 (= *Zimmermannella*)

(Microbacteriaceae, Actinomycetales):

Typus: *P. helvolus* Manaia et al.

Erstbeschr.: Manaia, C.M. et al. (2004), *Gulosibacter*

molinativorax gen. nov., sp. nov., a molinate-degrading bacterium, and classification of '*Brevibacterium helvolum*' DSM 20419 as *Pseudoclavibacter helvolus* gen. nov., sp. nov., Int. J. Syst. Evol. Microbiol. **54**, 783-789

Lit.: Lin, Y.C. et al. (2004), *Zimmermannella helvola* gen. nov., sp. nov., *Zimmermannella alba* sp. nov., *Zimmermannella bifida* sp. nov., *Zimmermannella faecalis* sp. nov. and *Leucobacter albus* sp. nov., novel members of the family Microbacteriaceae, Int. J. Syst. Evol. Microbiol. **54**, 1669-1676

Pseudonocardia Henssen 1957 emend. Huang et al. 2002 (= *Amycolata*; = *Pseudoamycolata*) (vgl. *Actinobispora*) (Pseudonocardiaceae, Actinomycetales) (Mycelbildner): Typus: *P. thermophila* Henssen

Erstbeschr.: Henssen, A. (1957), Beiträge zur Morphologie und Systematik der thermophilen Actinomyceten, Arch. Mikrobiol. **26**, 373-414; Huang, Y. (2002), Proposal to combine the genera *Actinobispora* and *Pseudonocardia* in an emended genus *Pseudonocardia*, and description of *Pseudonocardia zijingensis* sp. nov., Int. J. Syst. Evol. Microbiol. **52**, 977-982

Lit.: Akimov, V.N. et al. (1989), *Pseudoamycolata halophobica* gen. nov., sp. nov., Int. J. Syst. Bact. **39**, 457-461 (*Pseudoamycolata*)

Holt et al. (1994), 629 (auch als *Pseudoamycolata*) u. 628 (*Amycolata*)

Huang, Y. et al. (2002), Proposal to combine the genera *Actinobispora* and *Pseudonocardia* in an emended genus *Pseudonocardia*, and description of *Pseudonocardia zijingensis* sp. nov., Int. J. Syst. Evol. Microbiol. **52**, 977-982

Jiang, C. et al. (1991), *Actinobispora* ..., Int. J. Syst. Bacteriol. **41**, 526-528

Lechevalier et al. (1986), Int. J. Syst. Bact. **36**, 29-37 (*Amycolata*)

McVeigh, H.P. et al. (1994), The phylogenetic position of *Pseudoamycolata halophobica* (Akimov et al. 1989) and a proposal to reclassify it as *Pseudonocardia halophobica*, Int. J. Syst. Bact. **44**, 300-302

Williams et al. (1989), 2376 u. 2616 (*Amycolata*)

Quadrisphaera Maszenan et al. 2005 (Nakamurellaceae, Actinomycetales):

Typus: *Q. granulorum* Maszenan et al.

Erstbeschr.: Maszenan, A.M. et al. (2005), *Quadrisphaera granulorum* gen. nov., sp. nov., a Gram-positive polyphosphate-accumulating coccus in tetrads or aggregates isolated from aerobic granules, Int. J. Syst. Evol. Microbiol. **55**, 1771-1777

Rarobacter Yamamoto et al. 1988 (Rarobacteraceae, Actinomycetales):

Typus: *R. faecitabidus* Yamamoto et al.

Erstbeschr.: Yamamoto, N. et al. (1988), *Rarobacter faecitabidus* gen. nov., sp. nov., a yeast-lysing coryneform bacterium, Int. J. Syst. Bacteriol. **38**, 7-11

Rathayibacter Zgurskaya et al. 1993 (Microbacteriaceae, Actinomycetales) (kein Mycel bildend):

Typus: *R. rathayi* (Smith) Zgurskaya et al. (= *Aplanobacter rathayi* Smith)

Erstbeschr.: Zgurskaya, H.I. et al. (1993), *Rathayibacter* gen. nov., including the species *Rathayibacter rathayi* comb. nov., *Rathayibacter tritici* comb. nov., *Rathayibacter iranicus* comb. nov., and six strains from annual grasses, Int. J. Syst. Bacteriol. **43**, 143-149

Renibacterium Sanders & Fryer 1980 (Micrococcaceae, Actinomycetales) (kein Mycel bildend):

Typus: *R. salmoninarum* Sanders & Fryer

Erstbeschr.: Sanders, J.E. u. J.L. Fryer (1980), *Renibacterium salmoninarum* gen. nov., sp. nov., the causative agent of bacterial kidney disease in salmonid fishes, Int. J. Syst. Bact. **30**, 496-502

Rhodococcus Zopf 1891 (non *Rhodococcus* Hansgirg 1884; sind Algen) (Nocardiaceae, Actinomycetales) (Mycelbildner):

Lebensweise: Z.T. parasitisch an verschiedenen Pflanzen (plurivor) (Triebverlängerung od. Blattgallen hervorrufend)

Typus: *R. rhodochrous* (Zopf) Tsukamura (= *Staphylococcus rhodochrous* Zopf)

Erstbeschr.: Zopf, W. (1891), Über Ausscheidung von Fettfarbstoffen (Lipochromen) seitens gewisser Spaltpilze, Ber. Deutschen Bot. Ges. **9**, 22-28

Lit.: Goodfellow, M. u. G. Alderson (1977), The actinomycete-genus *Rhodococcus*: a home for the "rhodochrous" complex, J. Gen. Microbiol. **100**, 99-122

Holt et al. (1994), 626

Williams et al. (1989), 2362

Rhodoglobus Sheridan et al. 2003 (Microbacteriaceae,
Actinomycetales):

Typus: *R. vestalii* Sheridan et al.

Erstbeschr.: Sheridan, P.P. et al. (2003), *Rhodoglobus vestalii* gen. nov., sp. nov., a novel psychrophilic organism isolated from an Antarctic Dry Valley lake, *Int. J. Syst. Evol. Microbiol.* **53**, 985-994

Rothia Georg & Brown 1967 (= *Stomatococcus*) (Micrococcaceae,
Actinomycetales) (z.T. Mycelbildner):

Typus: *R. dentocariosa* (Onishi) Georg & Brown (= *Actinomyces dentocariosus* Onishi)

Erstbeschr.: Georg, L.K. u. J.M. Brown (1967), *Rothia*, gen. nov., an aerobic genus of the family Actinomycetaceae, *Int. J. Syst. Bact.* **17**, 79-88

Lit.: Bergan, T. u. M. Kocur (1982), *Stomatococcus mucilaginosus* gen. nov., sp. nov., a member of the family Micrococcaceae, *Int. J. Syst. Bacteriol.*, 1982, 32, 374-377 (*Stomatococcus*)

Collins, M.D. et al. (2000), Characterization of a *Rothia*-like organism from a mouse: description of *Rothia nasimurium* sp. nov. and reclassification of *Stomatococcus mucilaginosus* as *Rothia mucilaginosa* comb. nov., *Int. J. Syst. Evol. Microbiol.* **50**, 1247-1251

Ruania Gu et al. 2007 (incertae sedis, Actinomycetales):

Typus: *R. albidiiflava* Gu et al.

Erstbeschr.: Gu, Q. et al. (2007), *Ruania albidiiflava* gen. nov., sp. nov., a novel member of the suborder Micrococcineae, *Int. J. Syst. Evol. Microbiol.* **57**, 809-814

Saccharomonospora Nonomura & Ohara 1971 (Pseudonocardiaceae,
Actinomycetales) (Mycelbildner):

Typus: *S. viridis* (Schuurmans et al.) Nonomura & Ohara (= *Thermoactinomyces viridis* Schuurmans et al.)

Erstbeschr.: Nonomura, H. u. Y. Ohara (1971), Distribution of actinomycetes in soil, X, new genus and species of monosporic actinomycetes in soil, *J. Fermentation Technol.* **49**, 895-903

Lit.: Holt et al. (1994), 630

Williams et al. (1989), 2402 u. 2616

Saccharopolyspora Lacey & Goodfellow 1975 emend. Korn-Wendisch et al. 1989 (= *Faenia*) (vgl. *Micropolyspora*) (Pseudonocardiaceae, Actinomycetales) (Mycelbildner):

Typus: *S. hirsuta* Lacey & Goodfellow

Erstbeschr.: Lacey, J. u. M. Goodfellow (1975), A novel actinomycete from sugar-cane bagasse,
Saccharopolyspora hirsuta gen. et sp. nov., J. General Microbiol. **88**, 75-85; Korn-Wendisch, F. et al. (1989), Transfer of *Faenia rectivirgula* Kurup and Agre 1983 to the genus *Saccharopolyspora* Lacey and Goodfellow 1975, elevation of *Saccharopolyspora hirsuta* subsp. *taberi* Labeda 1987 to species level, and emended description of the genus

Saccharopolyspora, Int. J. Syst. Bact. **39**, 430-441

Lit.: Holt et al. (1994), 630

Kurup, V.P. u. N.S. Agre (1983), Transfer of *Micropolyspora rectivirgula* (Krasil'nikov and Agre 1964) Lechevalier, Lechevalier, and Becker 1966 to *Faenia* gen. nov., Int. J. Syst. Bacteriol. **33**, 663-665

Williams et al. (1989), 2382 u. 2387 (*Faenia*)

Saccharothrix Labeda et al. 1984 emend. Labeda & Lechevalier 1989 (= *Lentzea*) (Actinosynnemataceae, Actinomycetales) (Mycelbildner):

Typus: *S. australiensis* Labeda et al.

Erstbeschr.: Labeda, D.P. et al. (1984), *Saccharothrix*: a new genus of the Actinomycetales related to *Nocardiopsis*, Int. J. Syst. Bact. **34**, 426-431; Labeda, D.P. u. M.P. Lechevalier (1989), Amendment of the genus *Saccharothrix* Labeda et al. 1984 and descriptions of *Saccharothrix espanaensis* sp. nov., *Saccharothrix cryophilis* sp. nov. and *Saccharothrix mutabilis* comb. nov., Int. J. Syst. Bact. **39**, 420-423

Lit.: Holt et al. (1994), 701

Labeda, D.P. et al. (2001), Revival of the genus *Lentzea* and proposal for *Lechevalieria* gen. nov., Int. J. Syst. Evol. Microbiol. **51**, 1045-1050

Lee, S.D. et al. (2000), *Saccharothrix violacea* sp. nov., isolated from a gold mine cave, and *Saccharothrix albidiocapillata* comb. nov., Int. J. Syst. Evol. Microbiol., **50**, 1315-1323

Williams et al. (1989), 2599

Yassin, A.F. et al. (1995), *Lentzea* gen. nov., a new genus of the order Actinomycetales, Int. J. Syst. Bacteriol. **45**, 357-363

Salana Wintzingerode et al. 2001 (Beutenbergiaceae,

Actinomycetales):

Typus: *S. multivorans* Wintzingerode et al.

Erstbeschr.: Wintzingerode, v., F. et al. (2001), *Salana multivorans* gen. nov., sp. nov., a novel actinobacterium isolated from an anaerobic bioreactor and capable of selenate reduction, *Int. J. Syst. Evol. Microbiol.* **51**, 1653-1661

Salinibacterium Han et al. 2003 (Microbacteriaceae,

Actinomycetales):

Typus: *S. amurskyense* Han et al.

Erstbeschr.: Han, S.K. et al. (2003), *Salinibacterium amurskyense* gen. nov., sp. nov., a novel genus of the family Microbacteriaceae from the marine environment, *Int. J. Syst. Evol. Microbiol.* **53**, 2061-2066

Salinispora Maldonado et al. 2005 (Micromonosporaceae,

Actinomycetales):

Typus: *S. arenicola* Maldonado et al.

Erstbeschr.: Maldonado, L.A. et al. (2005), *Salinispora arenicola* gen. nov., sp. nov. and *Salinispora tropica* sp. nov., obligate marine actinomycetes belonging to the family Micromonosporaceae, *Int. J. Syst. Evol. Microbiol.* **55**, 1759-1766

Sanguibacter Fernandez-Garayzabal et al. 1995

(Sanguibacteraceae, *Actinomycetales*):

Typus: *S. keddieii* Fernandez-Garayzabal et al.

Erstbeschr.: Fernandez-Garayzabal, J.F. et al. (1995), Phenotypic and phylogenetic characterization of some unknown coryneform bacteria isolated from bovine blood and milk: description of *Sanguibacter* gen. nov., *Lett. Appl. Microbiol.* **20**, 69-75

Segniliparus Butler et al. 2005 (Segniliparaceae,

Actinomycetales):

Typus: *S. rotundus* Butler et al.

Erstbeschr.: Butler, W.R. et al. (2005), Novel mycolic acid-containing bacteria in the family Segniliparaceae fam. nov., including the genus *Segniliparus* gen. nov., with descriptions of *Segniliparus rotundus* sp. nov. and *Segniliparus rugosus* sp. nov., *Int. J. Syst. Evol. Microbiol.* **55**, 1615-1624

Serinicoccus Yi et al. 2004 (Intrasporangiaceae,

Actinomycetales):

Typus: *S. marinus* Yi et al.

Erstbeschr.: Yi, H. et al. (2004), *Serinicoccus marinus* gen. nov., sp. nov., a novel actinomycete with L-ornithine and L-serine in the peptidoglycan, Int. J. Syst. Evol. Microbiol. **54**, 1585-1589

Skermania Chun et al. 1997 (Gordoniaceae, Actinomycetales) (Mycelbildner):

Typus: *S. piniformis* Chun et al. (= *Nocardia pinensis* Blackall et al.)

Erstbeschr.: Chun, J. et al. (1997), A proposal to reclassify *Nocardia pinensis* Blackall et al. as *Skermania piniformis* gen. nov., comb. nov., Int. J. Syst. Bact. **47**, 127-131

Smaragdicoccus Adachi et al. 2007 (Nocardiaceae, Actinomycetales):

Typus: *S. niigatensis* Adachi et al.

Erstbeschr.: Adachi, K. et al. (2007), *Smaragdicoccus niigatensis* gen. nov., sp. nov., a novel member of the suborder Corynebacterineae, Int. J. Syst. Evol. Microbiol. **57**, 297-301

Sphaerisporangium Ara & Kudo 2007 (= *Sphaerosporangium*) (Streptosporangiaceae, Actinomycetales):

Typus: *S. melleum* Ara & Kudo

Erstbeschr.: Ara, I. u. T. Kudo (2007), *Sphaerosporangium* gen. nov., a new member of the family Streptosporangiaceae, with descriptions of three new species as *Sphaerosporangium melleum* sp. nov., *Sphaerosporangium rubeum* sp. nov. and *Sphaerosporangium cinnabarinum* sp. nov., and transfer of *Streptosporangium viridialbum* Nonomura and Ohara 1960 to *Sphaerosporangium viridialbum* comb. nov., Actinomycetologica **21**, 11-21

Spirilliplanes Tamura et al. 1997 (Micromonosporaceae, Actinomycetales):

Typus: *S. yamanashiensis* Tamura et al.

Erstbeschr.: Tamura, T. et al. (1997), A new genus of the order Actinomycetales, *Spirilliplanes* gen. nov., with description of *Spirilliplanes yamanashiensis* sp. nov., Int. J. Syst. Bact. **47**, 97-102

Spirilllospora Couch 1963 (Thermomonosporaceae, Actinomycetales) (Mycelbildner):

Typus: *S. albida* Couch

Erstbeschr.: Couch, N.J. (1963), Some new genera and species of the Actinoplanaceae, J. Elisha Mitchell Sci. Soc. **79**, 53-70

Lit.: Holt et al. (1994), 679

Williams et al. (1989), 2543

Sporichthya Lechevalier et al. 1968 (Sporichthyaceae,
Actinomycetales) (Mycelbildner):

Typus: *S. polymorpha* Lechevalier et al.

Erstbeschr.: Lechevalier, M.P. et al. (1968),

Sporichthya, un nouveau genre de Streptomycetaceae,
Ann. Inst. Pasteur (Paris) **114**, 277-285

Lit.: Holt et al. (1994), 667

Williams et al. (1989), 2507

Stackebrandtia Labeda & Kroppenstedt 2005 (Glycomycetaceae,
Actinomycetales):

Typus: *S. nassauensis* Labeda & Kroppenstedt

Erstbeschr.: Labeda, D.P. u. R.M. Kroppenstedt (2005),
Stackebrandtia nassauensis gen. nov., sp. nov. and
emended description of the family Glycomycetaceae,
Int. J. Syst. Evol. Microbiol. **55**, 1687-1691

Stomatococcus s. *Rothia*

Streptacidiphilus Kim et al. 2003 (Streptomycetaceae,

Actinomycetales):

Typus: *S. albus* Kim et al.

Erstbeschr.: Kim, S.B. et al. (2003), *Streptacidiphilus*
gen. nov., acidophilic actinomycetes with wall
chemotype I and emendation of the family
Streptomycetaceae (Waksman and Henrici 1943) emend.
Rainey et al. 1997, Antonie Leeuwenhoek **83**, 107-116

Streptoalloteichus Tomita et al. 1978 rev. Tomita et al. 1987
emend. Tamura et al. 2008 (Pseudonocardiaceae,
Actinomycetales) (Mycelbildner):

Typus: *S. hindustanus* Tomita et al. 1978 emend. Tomita et
al. 1987

Erstbeschr.: Tomita, K. et al. (1987), New genus of the
Actinomycetales: *Streptoalloteichus hindustanus* gen.
nov., nom. rev., sp. nov., nom. rev., Int. J. Syst.
Bacteriol. **37**, 211-213; Tamura, T. et al. (2008),
Classification of '*Streptomyces tenebrarius*' Higgins
and Kastner as *Streptoalloteichus tenebrarius* nom.
rev., comb. nov., and emended description of the
genus *Streptoalloteichus*, Int. J. Syst. Evol.
Microbiol. **58**, 688-691

Lit.: Holt et al. (1994), 693

Williams et al. (1989), 2569

Streptomonospora Cui et al. 2001 emend. Li et al. 2003 (=
Streptimonospora) (Nocardiopsidaceae, Actinomycetales):

Typus: *S. salina* Cui et al.

Erstbeschr.: Cui, X.L. et al. (2001), *Streptimonospora salina* gen. nov., sp. nov., a new member of the family Nocardiopsaceae, *Int. J. Syst. Evol. Microbiol.* **51**, 357-363; Li, W.J. et al. (2003), *Streptomonospora alba* sp. nov., a novel halophilic actinomycete, and emended description of the genus *Streptomonospora* Cui et al. 2001, *Int. J. Syst. Evol. Microbiol.* **53**, 1421-1425

Streptomyces Waksman & Henrici 1943 (= *Actinopycnidium*; = *Actinosporangium*; = *Chainia*; = *Elytrosporangium*; = *Kitasatoa*; = *Macrospora*; = *Microechinospora*; = *Microellobosporia*; = *Streptoverticillium*) (vgl. *Kitasatospora*) (Streptomycetaceae, Actinomycetales) (Mycelbildner):

Lebensweise: Z.T. phytoparasitisch

Typus: *S. albus* (Rossi Doria) Waksman & Henrici (= *Streptothrix albus* Rossi Doria)

Erstbeschr.: Waksman, S.A. u. A.T. Henrici (1943), The nomenclature and classification of the actinomycetes, *J. Bact.* **46**, 337-341

Lit.: Cross, T. et al. (1963), A new genus of the Actinomycetales: *Microellobosporia* gen. nov., *J. General Microbiol.* **31**, 421-429

Goodfellow, M. et al. (1986), Transfer of *Elytrosporangium brasiliense* Falcao de Moraes et al., *Elytrosporangium carpinense* Falcao de Moraes et al., *Elytrosporangium spirale* Falcao de Moraes, *Microellobosporia cinerea* Cross et al., *Microellobosporia flavea* Cross et al., *Microellobosporia grisea* (Konev et al.) Pridham and *Microellobosporia violacea* (Tsyganov et al.) Pridham to the genus *Streptomyces*, with emended descriptions of the species, *Syst. Appl. Microbiol.* **8**, 48-54

Holt et al. (1994), 668 (auch als *Streptoverticillium*)

Wellington, E.M.H. et al. (1992), Taxonomic status of *Kitasatosporia*, and proposal unification with *Streptomyces* on the basis of phenotypic and 16S rRNA analysis and emendation of *Streptomyces* Waksman and Henrici 1943, *Int. J. Syst. Bacteriol.* **42**, 156-160

Williams et al. (1989), 2452-2491 u. 2492
(*Streptoverticillium*) u. 2616-2617

Witt, D. u. E. Stackebrandt (1990), Unification of the genera *Streptoverticillium* and *Streptomyces*, and

amendment of *Streptomyces* Waksman and Henrici 1943,
Syst. Appl. Microbiol. **13**, 361-371
Wollenweber in Sorauer (1932), 834-841 (phytoparasitische
Arten als *Actinomyces*)

Streptosporangium Couch 1955 emend. Stackebrandt et al. 1994
(*Streptosporangiaceae*, *Actinomycetales*) (Mycelbildner):
Typus: *S. roseum* Couch
Erstbeschr.: Couch, J.N. (1955), A new genus and family
of the Actinomycetales, with a revision of the genus
Actinoplanes, J. Elisha Mitchell Sci. Soc. **71**, 148-
155; Stackebrandt, E. et al. (1994), Transfer of
Streptosporangium viridogriseum (Okuda et al. 1966),
Streptosporangium viridogriseum subsp. *kofuense*
(Nonomura and Ohara 1969), and *Streptosporangium*
albidum (Furumai et al. 1968) to *Kutzneria* gen. nov.
as *Kutzneria viridogrisea* comb. nov., *Kutzneria*
kofuensis comb. nov., and *Kutzneria albida* comb.
nov., respectively, and emendation of the genus
Streptosporangium, Int. J. Syst. Bact. **44**, 265-269
Lit.: Holt et al. (1994), 679
Williams et al. (1989), 2545

Streptoverticillium: Dieser Name musste bezüglich der Actinomyceten
wegen Vieldeutigkeit aufgegeben werden [die Typus-Art von
Streptoverticillium (*S. fusca* Corda, heute zu *Conoplea*) gehört
zu den Hyphomyceten, daher steht der Name *Streptoverticillium*
für die Actinomyceten nicht zur Verfügung]

Streptoverticillium s. *Streptomyces*
Subtercola Männistö et al. 2000 (*Microbacteriaceae*,
Actinomycetales) (kein Mycel bildend):
Typus: *S. boreus* Männistö et al.
Erstbeschr.: Männistö, M.K. et al. (2000), *Subtercola*
boreus gen. nov., sp. nov. and *Subtercola*
frigoramans sp. nov., two new psychrophilic
actinobacteria isolated from boreal groundwater,
Int. J. Syst. Evol. Microbiol. **50**, 1731-1739

Terrabacter Collins et al. 1989 (*Intrasporangiaceae*,
Actinomycetales):
Typus: *T. tumescens* (Jensen) Collins et al. (=
Corynebacterium tumescens Jensen)
Erstbeschr.: Collins, M.D. et al. (1989), Transfer of
Pimelobacter tumescens to *Terrabacter* gen. nov. as
Terrabacter tumescens comb. nov. and of *Pimelobacter*
jensenii to *Nocardiooides* as *Nocardiooides jensenii*
comb. nov., Int. J. Syst. Bact. **39**, 1-6

Lit.: Holt et al. (1994), 631

Terracoccus Prauser et al. 1997 (Intrasporangiaceae,
Actinomycetales):

Typus: *T. luteus* Prauser et al.

Erstbeschr.: Prauser, H. et al. (1997), *Terracoccus luteus* gen. nov., sp. nov., an LL-diaminopimelic acid-containing coccoid actinomycete from soil, Int. J. Syst. Bacteriol. **47**, 1218-1224

Tessaracoccus Maszenan et al. 1999 (Propionibacteriaceae,
Actinomycetales) (kein Mycel bildend):

Typus: *T. bendigoensis* Maszenan et al.

Erstbeschr.: Maszenan, A.M. et al. (1999), *Tessaracoccus bendigoensis* gen. nov., sp. nov., a Gram-positive coccus occurring in regular packages or tetrads, isolated from activated sludge biomass, Int. J. Syst. Bact. **49**, 459-468

Tetrasphaera Maszenan et al. 2000 emend. Ishikawa & Yokota 2006 (Intrasporangiaceae, Actinomycetales):

Typus: *T. japonica* Maszenan et al.

Erstbeschr.: Maszenan, A.M. et al. (2000), Three isolates of novel polyphosphate-accumulating Gram-positive cocci, obtained from activated sludge, belong to a new genus, *Tetrasphaera* gen. nov., and description of two new species, *Tetrasphaera japonica* sp. nov. and *Tetrasphaera australiensis* sp. nov., Int. J. Syst. Evol. Microbiol. **50**, 593-603; Ishikawa, T. u. Yokota (2006), Reclassification of *Arthrobacter duodecadis* Lochhead 1958 as *Tetrasphaera duodecadis* comb. nov. and emended description of the genus *Tetrasphaera*, Int. J. Syst. Evol. Microbiol. **56**, 1369-1373

Thermoactinomyces Tsilinsky 1899 emend. Yoon et al. 2005

(Thermoactinomycetes) (Mycelbildner):

Typus: *T. vulgaris* Tsilinsky

Erstbeschr.: Tsilinsky, P. (1899), Sur les mucédinées thermophiles, Ann. Inst. Pasteur (Paris) **13**, 500-505; Yoon, J.H. et al. (2005), Proposal of the genus *Thermoactinomyces* sensu stricto and three new genera, *Laceyella*, *Thermoflavimicrobium* and *Seinonella*, on the basis of phenotypic, phylogenetic and chemotaxonomic analyses, Int. J. Syst. Evol. Microbiol. **55**, 395-400

Lit.: Holt et al. (1994), 699

Williams et al. (1989), 2574

Thermobifida Zhang et al. 1998 emend. Yang et al. 2008
(Nocardiopsidaceae, Actinomycetales) (Mycelbildner):
Typus: *T. alba* (Locci et al.) Zhang et al. (=
Actinobifida alba Locci et al.)
Erstbeschr.: Zhang, Z. et al. (1998), Reclassification of
Thermomonospora and *Microtetraspora*, Int. J. Syst.
Bacteriol. **48**, 411-422; Yang, L.L. et al. (2008),
Thermobifida halotolerans sp. nov., isolated from a
salt mine sample, and emended description of the
genus *Thermobifida*, Int. J. Syst. Evol. Microbiol.
58, 1821-1825

Thermobispora Wang et al. 1996 (Pseudonocardiaceae,
Actinomycetales):
Typus: *T. bispora* (Henssen) Wang et al. (=
Thermopolyspora bispora Henssen)
Erstbeschr.: Wang, Y. et al. (1996), A proposal to
transfer *Microbispora bispora* (Lechevalier 1965) to
a new genus, *Thermobispora* gen. nov., as
Thermobispora bispora comb. nov., Int. J. Syst.
Bacteriol. **46**, 933-938

Thermocrispum Korn-Wendisch et al. 1995 (Pseudonocardiaceae,
Actinomycetales):
Typus: *T. municipale* Korn-Wendisch et al.
Erstbeschr.: Korn-Wendisch, F. et al. (1995),
Thermocrispum gen. nov., a new genus of the order
Actinomycetales, and description of *Thermocrispum*
municipale sp. nov. and *Thermocrispum agreste* sp.
nov., Int. J. Syst. Bact. **45**, 67-77

Thermomonospora Henssen 1957 emend. Zhang et al. 1998
(Thermomonosporaceae, Actinomycetales) (Mycelbildner):
Typus: *T. curvata* Henssen
Erstbeschr.: Henssen, A. (1957), Beiträge zur Morphologie
und Systematik der thermophilen Actinomyceten, Arch.
Mikrobiol. **26**, 373-414; Zhang, Z. et al. (1998),
Reclassification of *Thermomonospora* and
Microtetraspora, Int. J. Syst. Bact. **48**, 411-422
Lit.: Holt et al. (1994), 694
Williams et al. (1989), 2553

Thermopolyspora Krasilnikov & Agre 1964 ex Goodfellow et al.
2005 (Streptosporangiaceae, Actinomycetales)
(Mycelbildner):
Typus: *T. flexuosa* (Krasilnikov & Agre) Cross &
Goodfellow (= *Acetomadura flexuosa* Krasilnikov &
Agre)

Erstbeschr.: Goodfellow, M. et al. (2005),
Reclassification of *Nonomuraea flexuosa* (Meyer 1989)
Zhang et al. 1998 as *Thermopolyspora flexuosa* gen.
nov., comb. nov., nom. rev., Int. J. Syst. Evol.
Microbiol. **55**, 1979-1983

Tropheryma La Scola et al. 2001 nom. illeg.

(Cellulomonadaceae, Actinomycetales):

Typus: *T. whipplei* La Scola et al.

Erstbeschr.: La Scola, B. et al. (2001), Description of
Tropheryma whipplei gen. nov., sp. nov., the
Whipple's disease bacillus, Int. J. Syst. Evol.
Microbiol. **51**, 1471-1479

Tsukamurella Collins et al. 1988 (Tsukamurellaceae,

Actinomycetales):

Typus: *T. paurometabola* (Steinhaus) Collins et al. (=
Corynebacterium paurometabolum Steinhaus)

Erstbeschr.: Collins, M.D. et al. (1988), *Tsukamurella*
gen. nov. harboring *Corynebacterium paurometabolum*
and *Rhodococcus aurantiacus*, Int. J. Syst.
Bacteriol. **38**, 385-391

Lit.: Holt et al. (1994), 627

Umezawaea Labeda & Kroppenstedt 2007 (Actinosynnemataceae,

Actinomycetales):

Typus: *U. tangerina* (Kinoshita et al.) Labeda &
Kroppenstedt (= *Saccharothrix tangerinus* Kinoshita
et al.)

Erstbeschr.: Labeda, D.P. u. R.M. Kroppenstedt (2007),
Proposal of *Umezawaea* gen. nov., a new genus of the
Actinosynnemataceae related to *Saccharothrix*, and
transfer of *Saccharothrix tangerinus* Kinoshita et
al. 2000 as *Umezawaea tangerina* gen. nov., comb.
nov., Int. J. Syst. Evol. Microbiol. **57**, 2758-2761

Varibaculum Hall et al. 2003 (Actinomycetaceae,

Actinomycetales):

Typus: *V. cambriense* Hall et al.

Erstbeschr.: Hall, V. et al. (2003), Characterization of
some *Actinomyces*-like isolates from human clinical
sources: description of *Varibaculum cambriensis* gen.
nov., sp. nov., J. Clin. Microbiol. **41**, 640-644

Verrucosispora Rheims et al. 1998 (Micromonosporaceae,

Actinomycetales):

Typus: *V. gifhornensis* Rheims et al.

Erstbeschr.: Rheims, H. et al. (1998), *Verrucosispora*
gifhornensis gen. nov., sp. nov., a new member of

the actinobacterial family Micromonosporaceae, Int.

J. Syst. Bact. **48**, 1119-1127

Virgisorangium (*Virgosporangium*) Tamura et al. 2001

(Micromonosporaceae, Actinomycetales):

Typus: *V. ochraceum* Tamura et al.

Erstbeschr.: Tamura, T. et al. (2001), A new genus of the order Actinomycetales, *Virgisorangium* gen. nov., with descriptions of *Virgisorangium ochraceum* sp. nov. and *Virgisorangium aurantiacum* sp. nov., Int.

J. Syst. Evol. Microbiol. **51**, 1809-1816

Williamsia Kämpfer et al. 1999 (Williamsiaceae,

Actinomycetales):

Typus: *W. muralis* Kämpfer et al.

Erstbeschr.: Kämpfer, P. et al. (1999), *Williamsia muralis* gen. nov., sp. nov., isolated from the indoor environment of a children's day care centre, Int. J. Syst. Bact. **49**, 681-687

Xylanibacterium Rivas et al. 2004 (Promicromonosporaceae,

Actinomycetales):

Typus: *X. ulmi* Rivas et al.

Erstbeschr.: Rivas, R. et al. (2004), *Xylanibacterium ulmi* gen. nov., sp. nov., a novel xylanolytic member of the family Promicromonosporaceae, Int. J. Syst. Evol. Microbiol. **54**, 557-561

Xylanimonas Rivas et al. 2003 (Promicromonosporaceae,

Actinomycetales):

Typus: *X. cellullosilytica* Rivas et al.

Erstbeschr.: Rivas, R. et al. (2003), *Xylanimonas cellullosilytica* gen. nov., sp. nov., a xylanolytic bacterium isolated from a decayed tree (*Ulmus nigra*), Int. J. Syst. Evol. Microbiol. **53**, 99-103

Yaniella Li et al. 2008 (= *Yania* Li et al. 2004 nom. illeg.;

non *Yania* Roewer 1919; sind Arthropoda) (Yaniellaceae, Actinomycetales):

Typus: *Yaniella halotolerans* (Li et al. 2004) Li et al. 2008 (= *Yania halotolerans* Li et al. 2004)

Erstbeschr.: Li, W.J. et al. (2008), Proposal of Yaniellaceae fam. nov., *Yaniella* gen. nov. and *Sinobaca* gen. nov. as replacements for the illegitimate prokaryotic names *Yaniaceae* Li et al. 2005, *Yania* Li et al. 2004, emend. Li et al. 2005, and *Sinococcus* Li et al. 2006, respectively, Int. J. Syst. Evol. Microbiol. **58**, 525-527

Yonghaparkia Yoon et al. 2006 (Microbacteriaceae,

Actinomycetales):

Typus: *Y. alkaliphila* Yoon et al.

Erstbeschr.: Yoon, J.H. et al. (2006), *Yonghaparkia alkaliphila* gen. nov., sp. nov., a novel member of the family Microbacteriaceae isolated from an alkaline soil, *Int. J. Syst. Evol. Microbiol.* **56**, 2415-2420

Zhihengliuella Zhang et al. 2007 (Micrococcaceae,

Actinomycetales):

Typus: *Z. halotolerans* Zhang et al.

Erstbeschr.: Zhang, Y.Q. et al. (2007), *Zhihengliuella halotolerans* gen. nov., sp. nov., a novel member of the family Micrococcaceae, *Int. J. Syst. Evol. Microbiol.* **57**, 1018-1023

Zimmermannella s. *Pseudoclavibacter*

Allgemeine Literatur und Datenbasen

Balows et al. (1992), *The Prokaryotes*, 2. Aufl. (s. hiernach die 3. Aufl. unter Dworkin et al., 2006)

Bergey's Manual of Determinative Bacteriology s. Holt et al. (1994)

Bergey's Manual of Systematic Bacteriology s. Williams et al. (1989)

Brandis, H. et al. (1994), Lehrbuch der medizinischen Mikrobiologie, 7. Aufl., G. Fischer, Stuttgart etc. (927 S.)

Buchanan et al. (1966), *Index Bergeyana*, Williams & Wilkins, Baltimore (1472 S.); Gibbons et al. (1982), Supplement to *Index Bergeyana* (442 S.)

Dworkin, M. et al. (2006), *The Prokaryotes*, Band **3**, 3. Aufl., Springer, New York etc.

Dye, D.W. et al. (1980), Standards for naming ..., *Rev. Plant Pathol.* **59**, 153-168 [Code für phytopathogene Bakterien]

Goodfellow, M. (1984), *The Biology of the Actinomycetes*, Acad. Press, London etc. (544 S.)

Holt, J.G. et al. (1994), *Bergey's Manual of Determinative Bacteriology*, 9. Aufl., Williams & Wilkins, Baltimore et al., 605-703

<http://www.ncbi.nlm.nih.gov/Taxonomy/Browser>

Kirk, P.M., P.F. Cannon, J.C. David u. J.A. Stalpers (2001), *Dictionary of the Fungi*, 9th edition, CABI Bioscience, Wallingford, Oxon (655 S.)

- Kirk, P.M., P.F. Cannon, D.W. Minter u. J.A. Stalpers (2008),
Dictionary of the Fungi, 10th edition, CABI, Wallingford,
Oxon (771 S.) (S. 8)
- Kolkwitz, R. (1915), Schizomycetes, Kryptogamenflora der Mark
Brandenburg, als Teil von Bd. 5, Borntraeger, Leipzig
- Lapage, S.P. et al. (1992), International Code of Nomenclature
of Bacteria
- LPSN (früher LBSN), List of Prokaryotic Names with Standing in
Nomenclature: <http://www.bacterio.cict.fr>
- Prauser, H. (Hrsg.) (1970), The Actinomycetales, VEB Gustav
Fischer Verlag, Jena
- Saccardo, Sylloge Fungorum 8, 923-1087 u. Folgebände
- Schüssnig, B. (1953/60), Handbuch der Protophytenkunde, Bd. 1
u. 2, G. Fischer, Jena
- Skerman, V.B.D. et al. (1980), Approved Lists of Bacterial
Names, Int. J. Syst. Bacteriol. 30, 225-420 [s. aber auch
Skerman et al. (1989)]
- Skerman, V.B.D. et al. (1989), Approved Lists of Bacterial
Names, Amended Edition, Amer. Soc. Microbiol., Washington
DC (188 S.) [andere Namen sind bis auf weiteres ungültig]
- Sorauer, P. (1928), Handbuch der Pflanzenkrankheiten, Band 2,
Die pflanzlichen Parasiten, 1. Teil, 5. Aufl., Parey
Berlin (758 S.) [u.a. Bakterien]
- Sorauer, P. (1932), Handbuch der Pflanzenkrankheiten, Band 3,
Die pflanzlichen Parasiten, 2. Teil, 5. Aufl., Parey
Berlin, 830-843 [Actinomyceten]
- Stackebrandt et al. (1997), Int. J. Syst. Bact. 47, 479
[Übersicht über die Actinomyceten]
- Williams, S.T. et al. (1989), Bergey's Manual of Systematic
Bacteriology, Bd. 4, The Actinomycetes, Williams &
Wilkins, Baltimore etc. (S. 2299-2648) [das Kapitel über
die nocardioformen Actinomyceten aus Band 2 ist hier noch
einmal in revidierter Form enthalten]