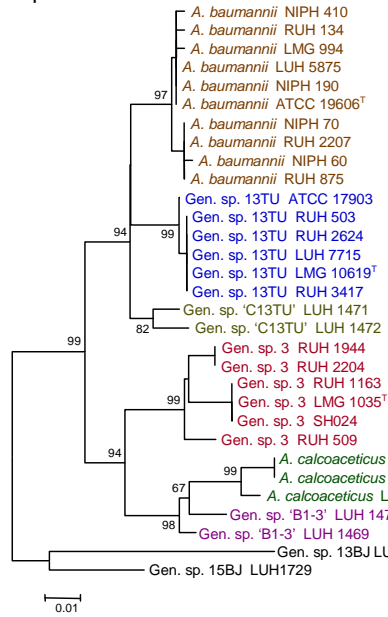
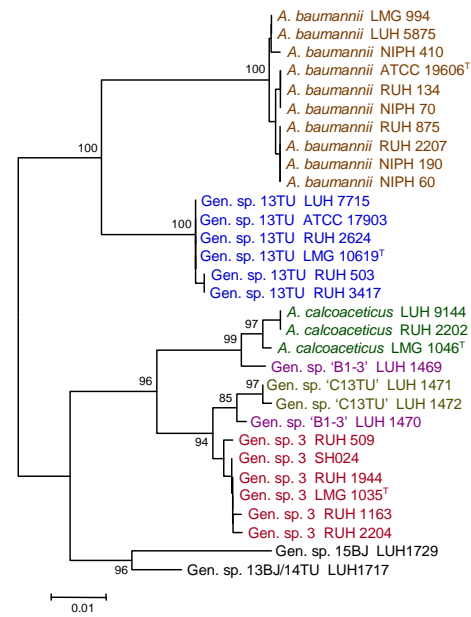


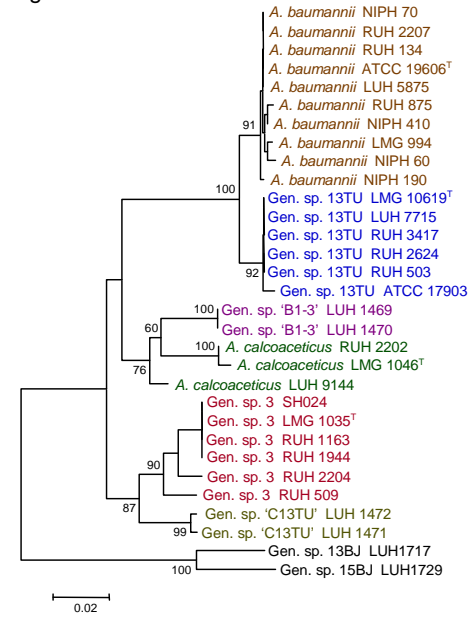
cpn60



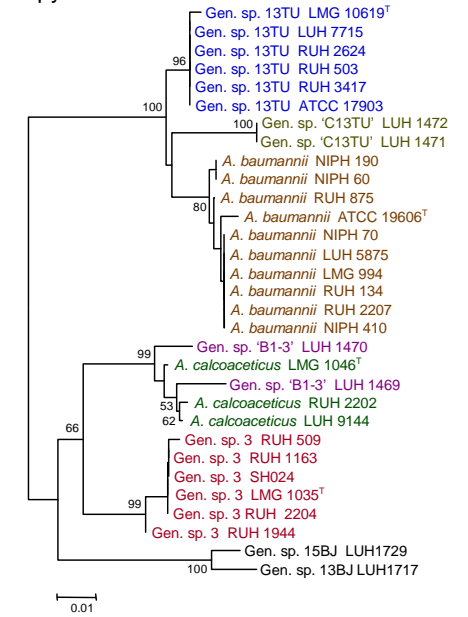
fusA



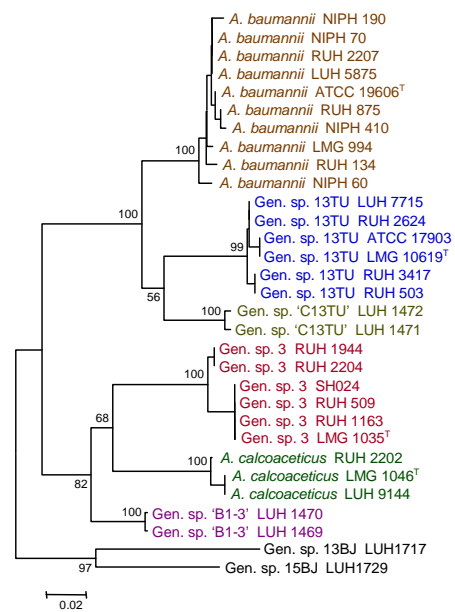
gltA



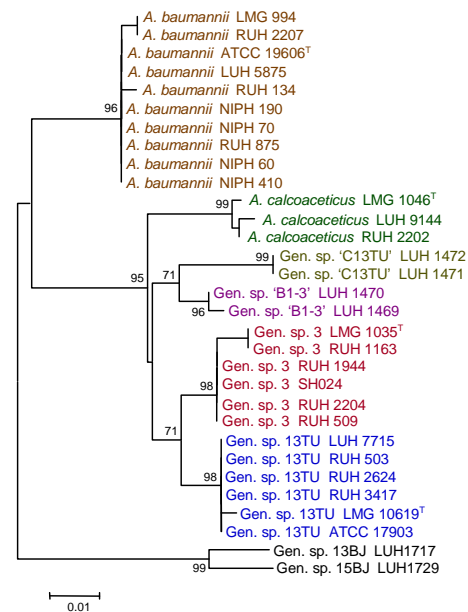
pyrG



recA



rplB



rpoB

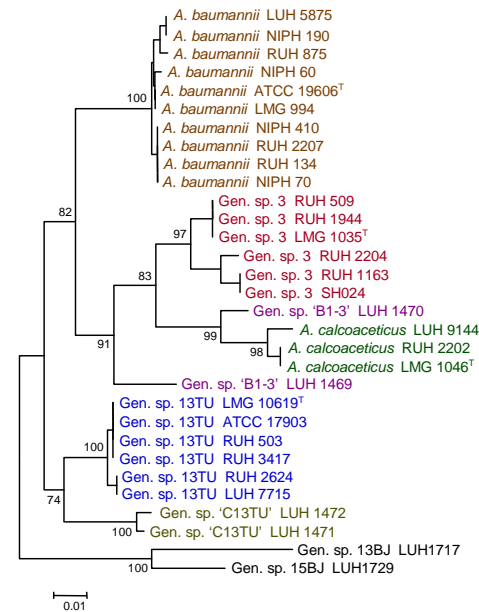


Fig. S1. Phylogenetic analysis of 29 strains of the ACB complex based on seven individual genes using the neighbor-joining method with Jukes-Cantor distance. Bootstrap values (> 50%) obtained after 1000 replicates are given at the nodes. Bar, 1% or 2% sequence divergence.

Table S1. The origin and genotypes of the strains of the *A. calcoaceticus* - *A. baumannii* complex investigated in this study.

Strain designation ^a	Specimen	Location and year of isolation ^b	Reference (depositor)	The <i>ppoB</i> gene accession no.	The 16S rRNA gene accession no.	ARDRA ^d	MLST ^e
Genomic sp. 3 (<i>Acinetobacter pittii</i>; n=20)							
LMG 1035 ^T (= CIP 70.29 ^T = ATCC 19004 ^T)	Cerebrospinal fluid	Before 1967	1, 2, 6, 9	EU477114	HQ180184	21313	ST63
RUH 37 (= LMG 10560)	Blood	Rotterdam, NL, 1981	6	HQ123371		21313	
RUH 408 (= LMG 10561)	Not known	Basel, CH, 1984	6	HQ123372		2+31313	
RUH 468 (= LMG 10562)	Urine	Rotterdam, NL, 1984	6	HQ123373		21313	
RUH 502 (= LMG 10554)	Drain	Nijmegen, NL, 1984	6	HQ123374		21313	
RUH 509 (= LMG 10559)	Bronchus	Nijmegen, NL, 1984	2, 6	HQ123375		21313	ST72
RUH 532 (= LMG 10564)	Urine	Vlaardingen, NL, 1984	6	HQ123376		21313	
RUH 1020 (= LMG 10557)	Bronchus	Nijmegen, NL, 1984	6	HQ123377		21313	
RUH 1163 (= LMG 10555)	Toe web	Rotterdam, NL, 1985	2, 6	HQ123378	HQ180185	2+31313	ST75
RUH 2204 (= LMG 10553)	Wound	Malmö, SE, 1980	2, 6	HQ123379	HQ180186	21313	ST73
RUH 2205 (= LMG 10556)	Wound	Malmö, SE, 1980	6	HQ123380		21313	
RUH 1944	Urine	The Hague, NL, 1986	2	HQ123381		21313	ST70
LUH 3538	Trachea	Debrecen, HU, 1994	(L. Kiss)	HQ123382		21313	
LUH 5968	Urine	Leiden, NL, 1999		HQ123383		21new13	
SH024 (= LUH 13119 = CCUG 57818)	Axilla	Cologne, DE, 1993	(H. Seifert)	ADCH01000044	ADCH01000068	21313	ST93 (ADCH00000000)
NIPH 14 (= LUH 3786)	Burn	Praha, CZ, 1991	7	HQ123384		21313	
NIPH 76 (= LUH 14361)	Urine	Praha, CZ, 1992	7	HQ123385		21313	
NIPH 95 (= LUH 14362)	Urine	Praha, CZ, 1993	7	HQ123386		21313	
NIPH 336 (= LUH 14366)	Urine	Tábor, CZ, 1993	7	HQ123387		21313	
ANC 3678 (= LUH 14368)	Water (pond)	CZ, 2008		HQ123388		21313	
Genomic sp. 13TU (<i>Acinetobacter nosocomialis</i>; n=20)							
LMG 10619 ^T (= RUH 2376 ^T = CCM 7791 ^T)	Sputum	Rotterdam, NL, 1987	2, 6	HQ123389	HQ180192	21113	ST76
ATCC 17903 (= LMG 993)	Not known	Before 1950	1, 2, 6, 9	EU477118	HQ180187	21111	ST74
RUH 412 (= LMG 10624)	Blood	Leiden, NL, 1975-1980	6	HQ123390		21111	
RUH 503 (= LMG 10620)	Urine	Nijmegen, NL, 1984	2, 6	HQ123391		21113	ST68
RUH 2041 (= LMG 10621)	Autopsy	Venlo, NL, 1986	6	HQ123392		21111+3	
RUH 2211 (= LMG 10625)	Gastric fistula	Malmö, SE, 1980-1981	6	HQ123393		21113	
RUH 2212 (= LMG 10626)	Urine	Malmö, SE, 1980-1981	6	HQ123394		21113	
RUH 2284 (= LMG 10622)	Bronchus	Rotterdam, NL, 1987	6	HQ123395		21113	
RUH 2624 (= LMG 10617)	Skin	Rotterdam, NL, 1987	6	ACQF01000029	ACQF01000094	21111+3	ST71 (ACQF00000000)
RUH 2627 (= LMG 10623)	Rectum	Rotterdam, NL, 1987	6	HQ123396	FJ860868	21113	
RUH 3417	Sputum	Odense, DK, 1984-1985	2, 3 (P. Gerner-Smidt)	HQ123397		21113	ST68
LUH 6585	Burn	Leiden, NL, 2001		HQ123398		21113	
LUH 7150	Bronchial secretion	Aberdeen, UK, 2000	(R. Spence)	HQ123399		21113	
LUH 7430	Skin	Hong Kong, China, 2001	(E. Huang)	HQ123400		2+31111+3	
LUH 7715	Sputum	Utrecht, NL, 2000	2	HQ123401		31111+3	ST71
LUH 8732	Sputum	Leiden, NL, 2003		HQ123402		31111+3	
NIPH 12 (= LUH 3784)	Burn	Praha, CZ, 1991	7	HQ123403		21111+3	
NIPH 97 (= LUH 14363)	Bronchial secretion	Praha, CZ, 1993		HQ123404		21113	
NIPH 106 (= LUH 3791)	Tracheal secretion	Praha, CZ, 1993	7	HQ123405		21111	
NIPH 386 (= LUH 14367)	Sputum	Přibram, CZ, 1996	7 (P. Ježek)	HQ123406		21111+3	
<i>Acinetobacter baumannii</i> (n=25)							
LMG 1041 ^T (= ATCC 19606 ^T)	Urine	Before 1949	1, 2, 6, 8, 9	EU477108	ACQB01000091	11121	ST52
RUH 1019 (= LMG 10536)	Wound	Nijmegen, NL, 1984	6			11121	
RUH 2207 (= LMG 10519)	Sputum	Malmö, SE, 1980	2, 6	HQ123407	HQ180179	11123	ST53
LMG 994 (= ATCC 17904)	Urine	Before 1963	2, 6	HQ123408	HQ180180	11123	ST54
RUH 875 (= LMG 10543 = CCM 7289)	Urine	Dordrecht, NL, 1984	2, 4	HQ123409	FJ867355	11121	ST1
RUH 134 (= LMG 10541 = CCM 7290)	Urine	Rotterdam, NL, 1982	2, 4	HQ123410		11123	ST2
RUH 2180	Sputum	Nijmegen, NL, 1987	2, 8			11123	ST27
RUH 2688	Pharynx	Rotterdam, NL, 1987	2, 8			11121+3	ST55
RUH 3414	Nail fold	London, UK, 1988	2, 8		FJ867357	11121	ST57
LUH 5875	Blood	Utrecht, NL, 1997	2, 10	HQ123411		11121	ST3
LUH 8326	Wound	Leiden, NL, 2002	2, 8			11123	ST18
LUH 8088	Sputum	Leiden, NL, 2002	2		FJ860865	11121	ST48
NIPH 60 (= LUH 4631)	Sputum	Praha, CZ, 1992	2, 7	HQ123412		11121	ST34
NIPH 67 (= LUH 4707)	Tracheal secretion	Praha, CZ, 1992	2, 7			11121	ST35
NIPH 70 (= LUH 4708)	Tracheal secretion	Praha, CZ, 1992	2, 7	HQ123413		11121+3	ST36
NIPH 80 (= LUH 4709)	I. V. cannula	Praha, CZ, 1993	2, 7			11121	ST37
NIPH 146 (= LUH 14364)	Wound	Praha, CZ, 1993				11121	
NIPH 190 (= LUH 4633)	Tracheal secretion	Praha, CZ, 1993	2, 7	HQ123414		11121	ST9
NIPH 201 (= LUH 4711)	Nasal swab	Liberec, CZ, 1992	2, 7			11121	ST38
NIPH 329 (= LUH 4718)	Tracheal secretion	Tábor, CZ, 1994	2, 7			11121	ST11
NIPH 335 (= LUH 4641)	Sputum	Tábor, CZ, 1994	2, 7			11121+3	ST10
NIPH 410 (= LUH 4722)	Cannula	Brno, CZ, 1996	2, 7	HQ123415		11123	ST39
NIPH 601 (= LUH 4725)	Urine	Praha, CZ, 1993	2, 7			11121+3	ST40
NIPH 615 (= LUH 4727)	Tracheal secretion	Praha, CZ, 1994	2, 7			11121+3	ST12
NIPH 1734 (= LUH 8406)	Sputum	M. Boleslav, CZ, 2001	2, 7			11121+3	ST15
<i>Acinetobacter calcoaceticus</i> (n=11)							
LMG 1046 ^T (= RUH 2201 ^T = ATCC 23055 ^T)	Soil	Delft, NL, 1900-1910	1, 2, 6, 9	EU477149	AJ633632	22113	ST62
RUH 582 (= LMG 10516)	Soil	Rotterdam, NL, 1984	6	HQ123416		22113	
RUH 944 (= LMG 10515)	I. V. cannula	Nijmegen, NL, 1984	6	HQ123417	FJ867363	22113	
RUH 2202 (= LMG 10517)	Wound	Malmö, SE, 1980-1981	6	HQ123418	ACPK01000075	22113	ST92 (ACPK00000000)
RUH 2203 (= LMG 10518)	Wound	Malmö, SE, 1980-1981	6	HQ123419	HQ180182	22113	
LUH 2005	Amputation stump	Enschede, NL, 1994		HQ123420		22113	
LUH 9144	Urinary catheter	Leiden, NL, 2004	2	HQ123421	HQ180183	22113	ST61
LUH 11899	Eye	Leiden, NL, 2006				22113	
NIPH 13 (= CCM 4665 = LUH 3784)	Burn	Praha, CZ, 1991	7	HQ123422		22113	
NIPH 2706 (= LUH 12679)	Sputum	Pardubice, CZ, 2006		HQ123423		22113	
ANC 3680 (= LUH 14369)	Soil (beech forest)	CZ, 2008		HQ123424		22113	
Genomic sp. 'Between 1 and 3' (n=2)							
LUH 1469 (= 10095 ^f)	Abscess	DK, 1990-1991	5, 6 (P. Gerner-Smidt)	EU477122	FJ860877	35113	ST88 (this study)
LUH 1470 (= 10169 ^f)	Sputum	DK, 1990-1991	5, 6 (P. Gerner-Smidt)	HQ123425		35113	ST89 (this study)
Genomic sp. 'Close to 13TU' (n=2)							
LUH 1472 (= 10090 ^f)	Ulcer	DK, 1990-1991	5, 6 (P. Gerner-Smidt)	EU477126	FJ860878	311+313	ST91 (this study)
LUH 1471 (= 5804 ^f)	Blood	DK, 1990-1991	5, 6 (P. Gerner-Smidt)	HQ123426		31313	ST90 (this study)

^a ATCC, American Type Culture Collection, Manassas, U.S.A.; CCM, Czech Collection of Microorganisms, Brno, Czech Republic; CCUG, Culture Collection, University of Göteborg, Sweden; LMG, Bacteria Collection, Laboratorium voor Microbiologie Gent, Gent, Belgium; CIP, Collection de l'Institut Pasteur, Institut Pasteur, Paris, France. ANC and NIPH, strain designation used by A. Nemeč; LUH and RUH, strain designation used by L. Dijkshoorn.

^b CH, Switzerland; CZ, Czech Republic; DE, Germany; DK, Denmark; HU, Hungary; NL, the Netherlands; SE, Sweden.

^c 1, Bouvet and Grimont (1986); 2, Diancourt et al. (2010); 3, Dijkshoorn et al. (1993); 4, Dijkshoorn et al. (1996); 5, Gerner-Smidt and Tjernberg (1993); 6, Janssen et al. (1998); 7, Nemeč et al. (1999); 8, Nemeč et al. (2007); 9, Tjernberg and Ursing (1989); 10, van Dessel et al. (2004).

^d Profiles designations according to Dijkshoorn et al. (1998).

^e The sequences of the STs are available at www.pasteur.fr/mlst.

^f Strain designation used by the depositor.

Table S2. Distinctness of the proposed species with their most closely related (genomic) species based on concatenated sequences of seven MLST genes.

	Mean % divergence within species ^a	Mean % divergence between species ^b	Ratio (between/within) ^c
<i>A. baumannii</i> vs gen. sp. 13TU	0.38+/-0.047 ; 0.18+/-0.032	4.64+/- 0.905	16.57
<i>A. baumannii</i> vs gen. sp. 'Close to 13TU'	0.38+/-0.047 ; 0.51+/-0.253	6.96+/-1.842	15.66
Gen. sp. 13TU vs gen. sp. 'Close to 13TU'	0.18+/-0.032 ; 0.51+/-0.253	5.73+/-2.276	16.61
Gen. sp. 13TU vs gen. sp. 'Between 1 and 3'	0.18+/-0.032 ; 1.80+/-0.901	8.00+/-3.173	8.08
Gen. sp. 3 vs gen. sp. 'Between 1 and 3'	0.85+/-0.152 ; 1.80+/-0.901	5.30+/-1.797	4.00
Gen. sp. 3 vs <i>A. calcoaceticus</i>	0.85+/-0.152 ; 0.86+/-0.263	6.10+/-1.763	7.13
<i>A. calcoaceticus</i> vs gen. sp. 'Between 1 and 3'	0.86+/-0.263 ; 1.80+/-0.901	3.76+/-1.672	2.83

^a Mean +/- standard error for pairwise divergence within each of the species shown in order of appearance in the comparison column

^b Mean +/- standard error for pairwise divergence between the species, based on all pairwise comparisons of strains from different species

^c *k* parameter: Ratio of the between-species divergence to the average of the within-species divergence levels