

Table S1: Characteristics of the *P. aeruginosa* isolates

Alias	Year	Origin	City	Country	Sample	Drug-resistance	ST	Ref
FrNa1	2010	Human	Narbonne	France	Catheter	XDR		
FrNa2	2010	Human	Narbonne	France	Urine	MDR		
FrNa3	2010	Human	Narbonne	France	Urine	MDR		
FrNa4	2010	Human	Narbonne	France	Urine	MDR		
FrNa5	2010	Human	Narbonne	France	Urethral swab	MDR		
FrNa6	2010	Human	Narbonne	France	Urine	MDR		
FrNa7	2010	Human	Narbonne	France	Catheter	MDR	ST235	
FrNa8	2010	Human	Narbonne	France	Catheter	MDR		
FrNa9	2010	Human	Narbonne	France	Catheter	XDR		
FrNa10	2010	Human	Narbonne	France	Urine	MDR		
FrNa11	2010	Human	Narbonne	France	Urine	MDR		
FrNa12	2010	Human	Narbonne	France	Urine	MDR		
FrNa13	2010	Human	Narbonne	France	BAL	MDR		
FrNa14	2010	Human	Narbonne	France	Urine	MDR		
FrNa15	2010	Human	Narbonne	France	BAL	MDR		
FrNa16	2010	Human	Narbonne	France	Urine	MDR	ST235	
FrNa17	2010	Human	Narbonne	France	Rectal swab	MDR		
FrNa18	2010	Human	Narbonne	France	PLE	MDR		
FrNa19	2010	Human	Narbonne	France	PLE	MDR		
FrNa20	2010	Human	Narbonne	France	PLE	MDR		
FrNa21	2010	Human	Narbonne	France	Pus	MDR	ST175	
FrNa22	2010	Human	Narbonne	France	Catheter	MDR		
FrNa23	2010	Human	Narbonne	France	PLE	MDR	ST308	
FrNa24	2010	Human	Narbonne	France	Pus	MDR		
FrNa25	2010	Human	Narbonne	France	Catheter	MDR		
FrNa26	2010	Human	Narbonne	France	PLE	MDR		
FrNa27	2010	Human	Narbonne	France	PLE	MDR		
FrNa28	2010	Human	Narbonne	France	PLE	MDR		
FrNa29	2011	Human	Narbonne	France	BAL	XDR		
FrNa30	2011	Human	Narbonne	France	BAL	XDR		
FrCl7	2011	Human	Clamart	France	Blood	XDR	ST111	
FrCl8	2011	Human	Clamart	France	BAL	XDR		
FrCl9	2011	Human	Clamart	France	Blood	XDR		
FrCl10	2011	Human	Clamart	France	Blood	MDR		
FrCl11	2011	Human	Clamart	France	Superficial pus	MDR	ST235	
FrCl12	2011	Human	Clamart	France	BAL	MDR		
FrCl13	2011	Human	Clamart	France	Bone biopsy	MDR		
FrCl15	2011	Human	Clamart	France	Superficial pus	MDR		
FrCl16	2011	Human	Clamart	France	Bone biopsy	MDR		
FrCl19	2011	Human	Clamart	France	Bone biopsy	MDR		
FrCl20	2011	Human	Clamart	France	Urine	MDR		
FrCl21	2011	Human	Clamart	France	Urine	MDR		
FrCl22	2011	Human	Clamart	France	Urine	MDR		

FrCl23	2011	Human	Clamart	France	Urine	MDR		
FrCl24	2011	Human	Clamart	France	Urine	XDR		
FrCl25	2011	Human	Clamart	France	Urine	MDR		
FrCl26	2011	Human	Clamart	France	Urine	MDR		
Ko1	2005	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko2	2005	Human	Daegu	Korea	UN	MDR	ST235	(1)
Ko3	2006	Human	Daegu	Korea	Wound swab	MDR	ST235	(1)
Ko4	2006	Human	Daegu	Korea	Urine	MDR		(1)
Ko5	2006	Human	Daegu	Korea	Others	MDR		(1)
Ko6	2006	Human	Daegu	Korea	Blood	MDR	ST560	(1)
Ko7	2006	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko8	2006	Human	Daegu	Korea	Sputum	MDR		(1)
Ko10	2006	Human	Daegu	Korea	Bile	XDR		(1)
Ko11	2005	Human	Daegu	Korea	UN	MDR		(1)
Ko13	2005	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko14	2006	Human	Daegu	Korea	Urine	MDR		(1)
Ko15	2005	Human	Daegu	Korea	Sputum	MDR		(1)
Ko16	2006	Human	Daegu	Korea	Urine	MDR		(1)
Ko18	2006	Human	Daegu	Korea	Urine	XDR		(1)
Ko19	2005	Human	Daegu	Korea	Urine	MDR		(1)
Ko20	2006	Human	Daegu	Korea	Ascitic fluid	XDR		(1)
Ko21	2006	Human	Daegu	Korea	Sputum	MDR		(1)
Ko22	2006	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko23	2006	Human	Daegu	Korea	UN	XDR		(1)
Ko24	2005	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko25	2005	Human	Daegu	Korea	Urine	MDR		(1)
Ko26	2006	Human	Daegu	Korea	UN	XDR		(1)
Ko27	2006	Human	Daegu	Korea	Blood	MDR		(1)
Ko31	2005	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko32	2005	Human	Daegu	Korea	Sputum	MDR		(1)
Ko33	2005	Human	Daegu	Korea	Bile	MDR		(1)
Ko34	2005	Human	Daegu	Korea	UN	MDR		(1)
Ko35	2005	Human	Daegu	Korea	Wound swab	MDR		(1)
Ko37	2005	Human	Daegu	Korea	Urine	MDR		(1)
Ko38	2006	Human	Daegu	Korea	Sputum	MDR		
Ko39	2006	Human	Daegu	Korea	Urine	XDR		
Ko41	2005	Human	Daegu	Korea	Urine	MDR		
Ko42	2005	Human	Daegu	Korea	Urine	MDR		
Ko43	2006	Human	Daegu	Korea	Ascitic fluid	MDR		
Ko45	2006	Human	Daegu	Korea	Wound swab	MDR		
Ko46	2005	Human	Daegu	Korea	UN	MDR		
Ko47	2005	Human	Daegu	Korea	Wound swab	XDR		
Ko48	2005	Human	Daegu	Korea	Urine	XDR		
Ko49	2005	Human	Daegu	Korea	UN	XDR		
Hu1	2001	Human	Szolnok	Hungary	UN	MDR		

Hu2	2005	Human	Belgrade	Serbia	UN	MDR		
Hu3	2005	Human	Budapest	Hungary	Urine	MDR	ST395	(2)
Hu4	2006	Human	Székesfehérvár	Hungary	Bile	MDR		
Hu5	2007	Human	Szolnok	Hungary	Wound swab	MDR	ST175	(2)
Hu6	2002	Human	Budapest	Hungary	Urine	MDR	ST229	(3)
Hu7	2003	Human	Pécs	Hungary	Urine	MDR	ST229	(3)
Hu8	2002	Human	Tatabánya	Hungary	Eye	epidemic		
Hu9	2005	Human	Mosonmagyar.	Hungary	Blood	MDR	ST235	(3)
Hu10	2003	Human	Budapest	Hungary	Blood	MDR		
Hu11	2004	Human	Budapest	Hungary	Blood	invasive		
Hu12	2004	Human	Székesfehérvár	Hungary	Blood	MDR		
Hu13	2004	Human	Tatabánya	Hungary	Blood	MDR		
Hu14	2004	Human	Gyula	Hungary	Blood	MDR		
Hu16	2006	Human	Veszprém	Hungary	Blood	epidemic		
Hu17	2006	Mouse	Budapest	Hungary	autopsy	experimental		
Hu18	2006	Bovine	n.a.	Hungary	Faeces	healthy		(4)
Hu19	2006	Bovine	n.a.	Hungary	Milk	healthy		(4)
Hu20	2006	Bovine	n.a.	Hungary	Milk	healthy		(4)
Ro1	2001	Human	Bucharest	Romania	TS	MDR	ST235	
Ro2	2001	Human	Bucharest	Romania	TS	MDR	ST235	
Ro3	2001	Human	Bucharest	Romania	BAL	MDR	ST235	
Ro4	2002	Human	Bucharest	Romania	BrA	MDR	ST235	
Ro5	2002	Human	Bucharest	Romania	BAL	MDR	ST235	
Ro6	2003	Human	Bucharest	Romania	BAL	MDR	ST235	
Ro7	2003	Human	Bucharest	Romania	BAL	MDR	ST235	
Ro8	2003	Human	Bucharest	Romania	BAL	MDR	ST235	
Ro9	2004	Human	Bucharest	Romania	PLE	MDR	ST235	
Ro10	2004	Human	Bucharest	Romania	TA	MDR	ST266	
Ro11	2004	Human	Bucharest	Romania	TA	MDR	ST235	
Ro12	2004	Human	Bucharest	Romania	BrA	MDR	ST713	
Ro13	2004	Human	Bucharest	Romania	TA	MDR	ST111	
Ro14	2004	Human	Bucharest	Romania	PLE	MDR	ST712	
Ro15	2004	Human	Bucharest	Romania	TS	MDR	ST235	
Ro16	2004	Human	Bucharest	Romania	TBA	MDR	ST235	
Ro17	2004	Human	Bucharest	Romania	TS	MDR	ST235	
Ro18	2003	Human	Bucharest	Romania	PLE	MDR	ST712	

Legend: BAL Bronchoalveolar lavage
TBA Tracheobronchial aspirate
PLE Pleural exudate
TS Tracheal secretion
TA Tracheal aspirate
BrA Bronchial aspirate

References

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Ko2	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko3	R	R	S	R	R	R	R	R	R	S	IMP-1
Ko4	R	S	S	R	R	R	R	S	R	R	IMP-1
Ko5	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko6	R	s	S	R	R	R	R	S	R	S	IMP-1
Ko7	R	S	S	R	R	R	R	S	R	S	IMP-1
Ko8	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko10	R	R	R	R	R	R	R	R	R	R	IMP-1
Ko11	R	R	S	R	R	R	R	R	R	S	IMP-1
Ko13	R	S	S	R	R	R	R	S	R	S	IMP-1
Ko14	R	S	S	R	R	R	R	S	R	S	IMP-1
Ko15	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko16	R	S	S	R	R	R	R	S	R	S	IMP-1
Ko18	R	R	R	R	R	R	R	R	R	R	IMP-1
Ko19	R	S	S	R	R	R	R	R	R	S	IMP-1
Ko20	R	R	R	R	R	R	R	R	R	R	IMP-1
Ko21	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko22	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko23	R	R	R	R	R	R	R	R	R	R	IMP-1
Ko24	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko25	R	R	R	R	R	R	R	S	R	S	IMP-1
Ko26	R	R	R	R	R	R	R	R	R	R	IMP-1
Ko27	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko31	R	R	R	R	R	R	R	R	R	S	IMP-1
Ko32	R	R	S	R	R	R	R	R	R	S	IMP-1
Ko33	R	R	S	R	R	R	R	S	R	S	IMP-1
Ko34	R	R	R	R	R	R	R	R	R	S	VIM-2
Ko35	R	S	S	R	R	R	R	S	R	S	IMP-1
Ko37	R	R	S	R	R	R	R	R	R	R	
Ko38	R	R	R	R	NT	R	R	R	S	R	
Ko39	R	R	R	R	NT	R	R	R	R	R	
Ko41	R	R	S	R	NT	S	S	R	S	S	
Ko42	R	R	R	R	NT	R	R	R	R	R	
Ko43	R	R	R	R	NT	R	R	R	S	R	
Ko45	R	R	R	R	NT	R	R	R	S	R	
Ko46	R	S	R	R	NT	S	R	R	S	R	
Ko47	R	R	R	R	NT	R	R	R	R	R	
Ko48	R	R	R	R	NT	R	R	R	R	R	
Ko49	R	R	R	R	NT	R	R	R	R	R	
Hu1	R	R	R	S	NT	R	R	R	R	R	
Hu2	R	R	R	S	NT	R	R	R	R	R	
Hu3	R	R	R	S	NT	R	R	R	R	R	
Hu4	R	R	S	I	NT	R	R	R	R	R	
Hu5	R	R	R	I	NT	R	R	R	R	R	
Hu6	R	R	R	R	NT	R	R	R	R	R	
Hu7	R	R	R	R	NT	R	R	R	R	I	
Hu8	S	S	S	NT	NT	S	S	S	NT	I	
Hu9	R	R	R	R	NT	R	R	R	R	I	VIM-4
Hu10	R	R	S	NT	NT	R	R	R	NT	R	
Hu11	S	S	S	NT	NT	R	I	S	NT	R	

Hu12	R	R	R	NT	NT	I	S	R	NT	R
Hu13	R	R	R	NT	NT	I	S	R	NT	R
Hu14	R	R	R	NT	NT	I	S	R	NT	R
Hu16	S	S	S	NT	NT	S	S	S	NT	S
Hu17	S	S	S	NT	NT	S	S	S	NT	I
Hu18	S	S	S	NT	NT	S	S	S	NT	I
Hu19	S	S	S	NT	NT	S	S	S	NT	I
Hu20	S	S	S	NT	NT	S	S	S	NT	S
Ro1	R	I	S	R	NT	R	R	R	R	R
Ro2	R	R	R	R	NT	R	R	R	R	R
Ro3	R	R	R	R	NT	R	R	R	R	R
Ro4	R	R	R	R	NT	R	R	R	R	R
Ro5	R	R	R	R	NT	R	R	R	R	R
Ro6	R	R	R	R	NT	R	R	R	R	R
Ro7	R	R	R	R	NT	R	R	R	R	R
Ro8	R	R	R	R	NT	R	R	R	R	R
Ro9	R	R	R	R	NT	R	R	R	R	R
Ro10	I	S	I	S	NT	R	S	I	R	I
Ro11	R	R	R	R	NT	R	R	R	R	R
Ro12	R	S	R	R	NT	R	R	S	R	R
Ro13	R	R	S	R	NT	R	R	R	R	R
Ro14	S	S	R	R	NT	R	I	S	R	R
Ro15	R	R	R	R	NT	R	R	R	R	R
Ro16	R	R	R	R	NT	R	R	R	R	R
Ro17	R	S	S	R	NT	R	I	R	R	R
Ro18	I	S	R	R	NT	R	R	S	R	R

Figure S1: clustering analysis of 126 isolates



