

Supplemental Table A1: Bacterial species identified by clinical microbiological and NGS methods

PHD	ClinDX	Chimera no.	PathoScope		BLAST		NGS-DX					BLAST		
			Strain	RefSeq-ID	Abund	Similarity (%)	E-value	SMRTPortal					Similarity (%)	E-value
								Strain	RefSeq-ID	Abund	Reads	Cov (X)		
2	Moderate <i>Acinetobacter baumannii</i>	5	<i>Stenotrophomonas maltophilia</i>	AB294553	83.1%		0.00E+00	<i>Acinetobacter baumannii</i>	X81660	53.1%	7933	4126.88		0.00E+00
			<i>Acinetobacter baumannii</i>	X81660	16.7%	86%		<i>Stenotrophomonas maltophilia</i>	AB294553	29.8%	3322	2311.87	86%	
			<i>Achromobacter denitrificans</i>	AJ278451	0.2%	85%		<i>Acinetobacter calcoaceticus</i>	AJ888983	3.0%	1090	231.65	97%	
								<i>Achromobacter denitrificans</i>	AJ278451	2.9%	551	222.29	83%	
								<i>Stenotrophomonas pavanii</i>	FJ748683	2.5%	349	191.13	86%	
								<i>Achromobacter xylosoxidans</i>	Y14908	1.6%	311	125.46	83%	
								<i>Stenotrophomonas humi</i>	AM403587	1.5%	307	113	85%	
			Other		0.0%			Other		5.7%				
6	Moderate <i>Pseudomonas aeruginosa</i>	43	<i>Pseudomonas otitidis</i>	AY953147	98.1%		0.00E+00	<i>Pseudomonas otitidis</i>	AY953147	73.2%	36327	27360		0.00E+00
			<i>Shigella sonnei</i>	FR870445	1.0%	86%		<i>Pseudomonas aeruginosa</i>	X06684	13.9%	10619	5198	97%	
			<i>Enterobacter cancerogenus</i>	Z96078	0.8%	86%		<i>Pseudomonas panipatensis</i>	EF424401	2.5%	2732	952	97%	
								<i>Pseudomonas knackmussii</i>	AF039489	2.0%	2554	748	97%	
								<i>Pseudomonas sdeltiensis</i>	DQ339153	1.1%	1553	419	96%	
Other		0.1%		Other		7.2%								
10	Abundant <i>Stenotrophomonas maltophilia</i>	0	<i>Stenotrophomonas maltophilia</i>	AB294553	100.0%			<i>Stenotrophomonas maltophilia</i>	AB294553	83.6%	23353	16192		0.00E+00
								<i>Stenotrophomonas pavanii</i>	FJ748683	5.7%	2414	1111	99%	
								<i>Stenotrophomonas humi</i>	AM403587	4.0%	1983	773	98%	
								<i>Pseudomonas hibiscicola</i>	AB021405	5.7%	2414	367	99%	
								<i>Pseudomonas beteli</i>	AB021406	4.0%	1983	333	99%	
Other		0.0%		Other		-3.0%								
12	Abundant <i>Pseudomonas aeruginosa</i>	22	<i>Acinetobacter baumannii</i>	X81660	84.6%		0.00E+00	<i>Acinetobacter baumannii</i>	X81660	56.0%	19033	13737		0.00E+00
			<i>Pseudomonas otitidis</i>	AY953147	14.3%	88%		<i>Pseudomonas otitidis</i>	AY953147	27.3%	8489	6702	88%	
			<i>Enterococcus faecalis</i>	AB012212	1.1%	81%		<i>Pseudomonas aeruginosa</i>	X06684	6.8%	2970	1679	87%	
								<i>Acinetobacter calcoaceticus</i>	AJ888983	2.1%	2289	519	97%	
								<i>Pseudomonas knackmussii</i>	AF039489	1.1%	622	260	87%	
Other		0.0%		Other		6.7%								
14	Moderate yeast	0	<i>Stenotrophomonas maltophilia</i>	AB294553	99.6%		2.00E-160	<i>Stenotrophomonas maltophilia</i>	AB294553	84.6%	8359	5992		0.00E+00
			<i>Phocaeicola abscessus</i>	EU694176	0.3%	76%		<i>Stenotrophomonas pavanii</i>	FJ748683	5.8%	744	413	99%	
			<i>Achromobacter denitrificans</i>	AJ278451	0.1%	85%		<i>Stenotrophomonas humi</i>	AM403587	4.0%	861	284	98%	
								<i>Pseudomonas hibiscicola</i>	AB021405	1.9%	354	137	99%	
								<i>Pseudomonas beteli</i>	AB021406	1.4%	379	96	99%	
Other		0.0%		Other		2.3%								
19	Moderate MRSA	1	<i>Lactobacillus rhamnosus</i>	D16552	48.3%		0.00E+00	<i>Enterobacter cancerogenus</i>	Z96078	14.8%	905	752		0.00E+00
			<i>Enterobacter cancerogenus</i>	Z96078	19.9%	79%		<i>Citrobacter braakii</i>	AF025368	14.3%	756	729	98%	
			<i>Lactobacillus pontis</i>	X76329	16.5%	92%		<i>Citrobacter murlinae</i>	AF025369	7.7%	462	390	98%	
			<i>Lactobacillus gasseri</i>	AF519171	7.2%	89%		<i>Enterobacter ludwigii</i>	AJ853891	6.5%	418	329	99%	
			<i>Achromobacter denitrificans</i>	AJ278451	3.6%	79%		<i>Escherichia vulneris</i>	AF530476	5.3%	400	270	98%	
			Other		4.6%			Other		51.5%				
43	Abundant <i>Pseudomonas aeruginosa</i>	40	<i>Pseudomonas otitidis</i>	AY953147	94.6%		0.00E+00	<i>Pseudomonas otitidis</i>	AY953147	74.8%	22045	16735		0.00E+00
			<i>Gemella haemolysans</i>	L14326	3.2%	81%		<i>Pseudomonas aeruginosa</i>	X06684	13.8%	5808	3097	97%	
			<i>Staphylococcus aureus</i>	L36472	2.1%	79%		<i>Pseudomonas panipatensis</i>	EF424401	2.1%	1327	478	97%	
								<i>Pseudomonas knackmussii</i>	AF039489	1.7%	1214	376	97%	
								<i>Pseudomonas delhiensis</i>	DQ339153	1.0%	755	221	96%	
Other		0.1%		Other		6.6%								
48	Moderate MRSA	0	<i>Staphylococcus aureus</i>	L36472	98.3%		0.00E+00	<i>Staphylococcus aureus</i>	L36472	59.1%	515	320		0.00E+00
			<i>Veillonella parvula</i>	AY995767	0.7%	81%		<i>Veillonella parvula</i>	AY995767	11.1%	110	60	81%	
			<i>Prevotella oulorum</i>	L16472	0.5%	73%		<i>Prevotella multiformis</i>	AB182483	8.8%	90	47	73%	
			Other		0.5%			Other		21.0%				
49	Abundant <i>Pseudomonas aeruginosa</i>	11	<i>Pseudomonas otitidis</i>	AY953147	90.0%		0.00E+00	<i>Pseudomonas otitidis</i>	AY953147	73.2%	2457	1971		0.00E+00
			<i>Staphylococcus aureus</i>	L36472	4.6%	79%		<i>Pseudomonas aeruginosa</i>	X06684	17.0%	829	457	97%	
			<i>Shigella flexneri</i>	X96963	4.4%	86%		<i>Pseudomonas panipatensis</i>	EF424401	2.8%	210	76	97%	

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			PathoScope			BLAST		SMRTPortal					BLAST		
			Strain	RefSeq-ID	Abund	Similarity (%)	E-value	Strain	RefSeq-ID	Abund	Reads	Cov (X)	Similarity (%)	E-value	
			Other		1.0%				Other		7.0%				
50	Moderate Enterobacter aerogenes	0	<i>Raoultella ornithinolytica</i>	U78182	92.2%			<i>Raoultella ornithinolytica</i>	X87276	41.5%	520	430			
			<i>Streptococcus sanguinosus</i>	AF104678	3.7%	78%	0.00E+00	<i>Enterobacter aerogenes</i>	U78182	17.0%	241	177	99%	0.00E+00	
			<i>Prevotella melaninogenica</i>	CP002122	2.2%	74%	7.00E-126	<i>Citrobacter murlinae</i>	AB004750	14.7%	61	152	98%		
			Other		1.9%			Other		26.8%					
53	Abundant Enterobacter aerogenes	4	<i>Enterobacter aerogenes</i>	AB004750	100.0%			<i>Citrobacter murlinae</i>	U78182	37.4%	10161	8620			
								<i>Raoultella ornithinolytica</i>	AB004750	16.3%	4911	3765	99%	0.00E+00	
								<i>Enterobacter aerogenes</i>	AF025369	13.1%	3860	3007	98%		
			Other		0.0%			Other		33.2%					
54	Few Pseudomonas aeruginosa	28	<i>Pseudomonas otitidis</i>	AY953147	100.0%			<i>Pseudomonas otitidis</i>	AY953147	79.0%	313	219			0.00E+00
								<i>Pseudomonas aeruginosa</i>	X06684	21.0%	123	57	97%		
			Other		100.0%			Other		0.0%					
61	Moderate oropharyngeal flora	1	<i>Achromobacter denitrificans</i>	AJ278451	58.7%			<i>Achromobacter denitrificans</i>	AJ278451	46.2%	2933	1611			
			<i>Enterococcus duras</i>	AJ276354	35.6%	78%	0.00E+00	<i>Achromobacter xylosoxidans</i>	Y14908	19.1%	1285	667	99%	0.00E+00	
			<i>Pseudomonas migulae</i>	AF074383	3.7%	84%		<i>Achromobacter insolitus</i>	AY170847	7.0%	510	243	99%		
			<i>Stenotrophomonas maltophilia</i>	AB294553	1.3%	85%		<i>Achromobacter spanius</i>	AY170848	6.3%	405	219	99%		
			Other		0.7%			Other		21.4%					
64	Moderate Pseudomonas aeruginosa, Few Acinetobacter baumannii	9	<i>Prevotella melaninogenica</i>	CP002122	79.6%			<i>Prevotella melaninogenica</i>	AY995767	61.1%	15173	9188			
			<i>Lactobacillus gasseri</i>	AF519171	9.3%	76%	1.00E-170	<i>Acinetobacter baumannii</i>	CP002122	10.0%	2578	1499	76%	1.00E-160	
			<i>Acinetobacter baumannii</i>	X81660	6.6%	76%	1.00E-160	<i>Pseudomonas otitidis</i>	FJ545434	7.0%	1542	1055	74%	2.00E-159	
			<i>Veillonella parvula</i>	AY995767	2.5%	74%	5.00E-135	<i>Veillonella parvula</i>	AY953147	4.5%	1240	677	74%	4.00E-135	
			<i>Pseudomonas otitidis</i>	AY953147	1.5%	74%	2.00E-159	<i>Prevotella scopos</i>	X81660	1.6%	881	234	98%	0.00E+00	
			Other		0.5%			Other		15.9%					
67	Few oropharyngeal flora	0	<i>Obesumbacterium proteus</i>	AJ233422	54.2%			<i>Acinetobacter baumannii</i>	X81660	45.1%	9	6			
			<i>Achromobacter denitrificans</i>	AJ278451	31.4%	82%	0.00E+00	<i>Bacteroides intestinalis</i>	AB214328	13.4%	3	2	77%	0.00E+00	
			<i>Pseudomonas otitidis</i>	AY953147	10.8%	86%		<i>Lactobacillus gasseri</i>	AF519171	9.5%	5	1	80%		
			<i>Streptococcus mitis</i>	AF003929	3.5%	78%		<i>Prevotella melaninogenica</i>	CP002122	8.9%	6	1	76%	1.00E-163	
			Other		0.1%			Other		23.1%					
70	Abundant oropharyngeal flora	6	<i>Neisseria cinerea</i>	ACDY02000019	96.4%			<i>Neisseria cinerea</i>	ACDY02000019	62.0%	15690	10515			
			<i>Streptococcus mitis</i>	AF003929	1.8%	78%	0.00E+00	<i>Neisseria sicca</i>	ACKO02000016	14.4%	5200	2448	97%		
			<i>Corynebacterium pseudodiphtheriticum</i>	AJ439343	1.6%	79%		<i>Corynebacterium pseudodiphtheriticum</i>	AJ439343	7.1%	2262	1202	79%	0.00E+00	
								<i>Neisseria flavescens</i>	L06168	3.8%	2158	645	97%		
								<i>Streptococcus mitis</i>	AF003929	2.5%	704	430	78%		
			Other		0.1%			Other		10.2%					
71	Abundant MRSA	3	<i>Staphylococcus aureus</i>	L36472	99.8%			<i>Staphylococcus aureus</i>	L36472	80.2%	13572	8890			
			<i>Enterococcus faecalis</i>	AB012212	0.2%	89%	0.00E+00	<i>Staphylococcus aureus</i>	D83355	5.3%	951	592	99%	0.00E+00	
								<i>Staphylococcus simiae</i>	AY727530	4.6%	1009	512	99%		
								<i>Enterococcus faecalis</i>	AB012212	4.4%	823	490	89%		
			Other		0.0%			Other		5.4%					
73	Abundant Aeromonas hydrophila, Abundant Pantoea species	20	<i>Aeromonas punctata</i>	X60408	92.5%			<i>Serratia grimesii</i>	AJ233430	12.4%	3109	2792			
			<i>Serratia grimesii</i>	AJ233430	2.1%	91%	0.00E+00	<i>Dysgonomonas capnocytophagoides</i>	U41355	9.8%	4321	2192	74%	2.00E-126	
			<i>Streptococcus salivarius</i>	AY188352	1.6%	78%		<i>Yersinia entomophaga</i>	DQ400782	9.3%	2887	2085	96%		
			<i>Dysgonomonas capnocytophagoides</i>	U41355	1.5%	76%	1.00E-162	<i>Aeromonas punctata</i>	X60408	5.7%	1596	1274	91%	0.00E+00	
			<i>Pseudomonas extremaustralis</i>	AJ583501	1.0%	89%	0.00E+00	<i>Aeromonas hydrophila</i>	FR870443	5.3%	2697	1193	91%		
			<i>Stenotrophomonas maltophilia</i>	AB294553	1.0%	86%		<i>Hafnia paralvei</i>	FM179943	5.3%	1678	1192	98%		
			Other		0.3%			Other		52.3%					
75	Moderate yeast	0	<i>Pseudomonas otitidis</i>	AY953147	99%			<i>Pseudomonas otitidis</i>	AY953147	0.834	695	539			
			<i>Achromobacter denitrificans</i>	AJ278451	1.0%	84%	0.00E+00	<i>Pseudomonas aeruginosa</i>	X06684	12.0%	167	78	97%	0.00E+00	
								<i>Pseudomonas panipatensis</i>	EF424401	2.9%	53	19	97%		
								<i>Pseudomonas knackmussii</i>	AF039489	1.7%	55	11	97%		
			Other		0.0%			Other		0.0%					

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			Strain	RefSeq-ID	Abund	Similarity (%)	E-value	SMRTPortal					Similarity (%)	E-value	
								Strain	RefSeq-ID	Abund	Reads	Cov (X)			Similarity (%)
77	Few <i>Moraxella catarrhalis</i> , Few oropharyngeal flora	1	<i>Staphylococcus aureus</i>	L36472	79.5%		0.00E+00	<i>Streptococcus mitis</i>	AF003929	12.1%	188	55		0.00E+00	
			<i>Streptococcus mitis</i>	AF003929	13.5%	86%		<i>Moraxella catarrhalis</i>	AF005185	9.5%	182	43	79%		
			<i>Moraxella catarrhalis</i>	AF005185	2.3%	79%		<i>Shewanella donghaensis</i>	AY326275	5.7%	611	26	78%		
			<i>Corynebacterium accolens</i>	AJ439346	1.1%	79%		<i>Desulfovibrio piger</i>	AF192152	5.7%	693	26	79%		
			Other		3.6%			Other		67.0%					
78	Few <i>Enterobacter aerogenes</i>	12	<i>Streptococcus mitis</i>	AF003929	75.1%		0.00E+00	<i>Streptococcus mitis</i>	AF003929	16.4%	3277	2050		0.00E+00	
			<i>Haemophilus influenzae</i>	M35019	4.8%	77%		<i>Corynebacterium accolens</i>	AJ439346	14.3%	3159	1788	79%		
			<i>Streptococcus anginosus</i>	AF104678	3.9%	93%		<i>Neisseria cinerea</i>	ACDY02000019	8.5%	1567	1058	78%		
			<i>Gemella haemolysans</i>	L14326	3.5%	85%		<i>Streptococcus anginosus</i>	AF104678	6.4%	1494	799	93%		
			<i>Streptococcus intermedius</i>	AF104671	3.4%	95%		<i>Prevotellamela ninogenica</i>	CP002122	4.1%	1080	508	76%		6.00E-166
			<i>Corynebacterium accolens</i>	AJ439346	2.6%	79%		<i>Streptococcus pneumoniae</i>	AF003930	3.6%	902	456	99%		0.00E+00
			<i>Staphylococcus epidermidis</i>	D83363	2.2%	85%		<i>Streptococcus intermedius</i>	AF104671	3.5%	727	433	95%		
			<i>Neisseria flavescens</i>	L06168	2.0%	78%		<i>Haemophilus parainfluenzae</i>	AY362908	3.2%	822	406	79%		
			<i>Neisseria sicca</i>	ACKO02000016	1.2%	80%		<i>Haemophilus pittmaniae</i>	AJ290755	2.8%	394	355	77%		
			Other		1.3%			Other		37.2%					
			80	Few oropharyngeal flora	0	<i>Achromobacter denitrificans</i>		AJ278451	96.7%		0.00E+00	<i>Achromobacter denitrificans</i>	AJ278451		41.3%
<i>Pseudomonas otitidis</i>	AY953147	1.5%				84%	<i>Achromobacter xylosoxidans</i>	Y14908	13.6%	143		84	94%		
<i>Streptococcus pneumoniae</i>	AF003930	1.2%				78%	<i>Pseudomonas otitidis</i>	AY953147	5.9%	48		36	84%		
							<i>Achromobacter insolitus</i>	AY170847	4.3%	54		27	99%		
Other		0.6%					Other		34.9%						
83	Few <i>Enterobacter cloacae</i>		<i>Enterobacter ludwigii</i>	AJ853891	80.2%		0.00E+00	<i>Enterobacter ludwigii</i>	AJ853891	40.8%	5495	4471		0.00E+00	
			<i>Veillonella parvula</i>	AY995767	6.1%	79%		<i>Acinetobacter guillouiae</i>	X81659	12.8%	1834	1400	85%		
			<i>Acinetobacter guillouiae</i>	X81659	5.7%	85%		<i>Porphyromonas catoniae</i>	X82823	5.4%	903	596	76%		6.00E-166
			<i>Enterococcus faecalis</i>	AB012212	2.6%	78%		<i>Actinomyces odontolyticus</i>	AJ234040	5.4%	736	594	79%		0.00E+00
			<i>Streptococcus pneumoniae</i>	AF003930	2.0%	77%		<i>Veillonella parvula</i>	AY995767	5.1%	876	558	79%		
			<i>Klebsiella pneumoniae</i>	X87276	1.9%	98%		<i>Acinetobacter bereziniae</i>	Z93443	4.8%	911	522	85%		
			<i>Lautropia mirabilis</i>	AEQP01000026	1.1%	83%		<i>Abiotrophia defectiva</i>	D50541	2.8%	436	309	78%		
			Other		0.5%			Other		23.0%					
85	Moderate MSSA		<i>Lactobacillus gasseri</i>	AF519171	54.8%		0.00E+00	<i>Streptococcus salivarius</i>	AY188352	46.2%	1710	1148		0.00E+00	
			<i>Streptococcus salivarius</i>	AY188352	35.6%	85%		<i>Streptococcus mitis</i>	AF003929	11.0%	369	274	95%		
			<i>Gemella morbillorum</i>	L14327	4.6%	85%		<i>Prevotella histicola</i>	EU126661	6.6%	250	164	76%		3.00E-154
			<i>Streptococcus mutans</i>	AY188348	2.6%	86%		<i>Streptococcus vestibularis</i>	AY188353	5.0%	285	123	99%		0.00E+00
			Other		2.4%			Other		31.2%					
86	Abundant MSSA		<i>Staphylococcus aureus</i>	L36472	47.9%		0.00E+00	<i>Haemophilus influenzae</i>	M35019	56.2%	6829	3879		0.00E+00	
			<i>Haemophilus influenzae</i>	M35019	27.5%	78%		<i>Streptococcus mitis</i>	AF003929	13.0%	1778	900	77%		
			<i>Streptococcus pneumoniae</i>	AF003930	22.4%	85%		<i>Streptococcus pneumoniae</i>	AF003930	11.6%	1300	804	78%		
			<i>Raoultella ornithinolytica</i>	U78182	1.6%	79%		<i>Haemophilus aegyptius</i>	AY362905	6.2%	1031	431	99%		
								<i>Streptococcus pseudopneumoniae</i>	AY612844	5.8%	773	399	78%		
								<i>Staphylococcus aureus</i>	L36472	1.6%	200	113	78%		
			Other		0.6%			Other		5.5%					
89	Moderate <i>Klebsiella pneumoniae</i> , Moderate <i>Providencia stuartii</i>		<i>Streptococcus agalactiae</i>	AB023574	72.2%		0.00E+00	<i>Streptococcus agalactiae</i>	AB023574	66.8%	22695	15220		0.00E+00	
			<i>Lactobacillus gasseri</i>	AF519171	11.4%	87%		<i>Klebsiella pneumoniae</i>	X87276	13.5%	4181	3069	78%		
			<i>Streptococcus anginosus</i>	AF104678	7.5%	93%		<i>Streptococcus anginosus</i>	AF104678	8.8%	3184	1999	93%		
			<i>Klebsiella pneumoniae</i>	X87276	6.5%	78%		<i>Klebsiella pneumoniae</i>	AF130982	1.7%	694	388	78%		
								<i>Enterococcus faecalis</i>	AB012212	1.6%	641	356	89%		

Supplemental Table A1: Bacterial species identified by clinical microbiological and NGS methods

PHD	ClinDX	Chimera no.	NGS-DX																
			PathoScope			BLAST			SMRTPortal				BLAST						
			Strain	RefSeq-ID	Abund	Similarity (%)	E-value	Strain	RefSeq-ID	Abund	Reads	Cov (X)	Similarity (%)	E-value					
			Other			2.3%				<i>Klebsiella pneumoniae</i>	Y17657	1.2%	451	271	78%				
			Other							Other				6.5%					
90	Standard culture negative		<i>Lactobacillus gasseri</i>	AF519171	41.5%				<i>Enterobacter cancerogenus</i>	Z96078	14.1%	479	397						
			<i>Lactobacillus rhamnosus</i>	D16552	38.9%	89%			<i>Citrobacter braakii</i>	AF025368	13.0%	402	368	98%					
			<i>Enterobacter cancerogenus</i>	Z96078	4.4%	81%			<i>Citrobacter murlinae</i>	AF025369	8.1%	263	228	98%					
			<i>Pseudomonas otitidis</i>	AY953147	3.3%	81%			<i>Enterobacter ludwigii</i>	AJ853891	7.2%	262	204	99%					
			<i>Streptococcus anginosus</i>	AF104678	2.5%	86%	0.00E+00		<i>Citrobacter werkmanii</i>	AF025373	5.6%	273	158	98%					0.00E+00
			<i>Streptococcus agalactiae</i>	AB023574	2.5%	87%			<i>Escherichia vulneris</i>	AF530476	5.0%	205	142	98%					
			<i>Streptococcus pneumoniae</i>	AF003930	2.3%	85%			<i>Lactobacillus rhamnosus</i>	D16552	4.5%	176	126	79%					
			<i>Shigella flexneri</i>	X96963	2.2%	81%			<i>Citrobacter freundii</i>	AJ233408	3.9%	130	109	98%					
			<i>Haemophilus influenzae</i>	M35019	1.1%	79%			<i>Haemophilus influenzae</i>	M35019	3.8%	160	108	87%					
			<i>Achromobacter denitrificans</i>	AJ278451	1.0%	79%			<i>Salmonella enterica</i>	AE006468	3.2%	141	90	97%					
					Other			0.4%			Other				31.6%				

Average CHIMERA /sample 9

Average (No. Reads/Cov per sample)

2739 1662