Supplemental materials for the article: **Accuracy of MALDI-TOF mass spectrometry for the identification of clinical pathogenic fungi: a meta-analysis**
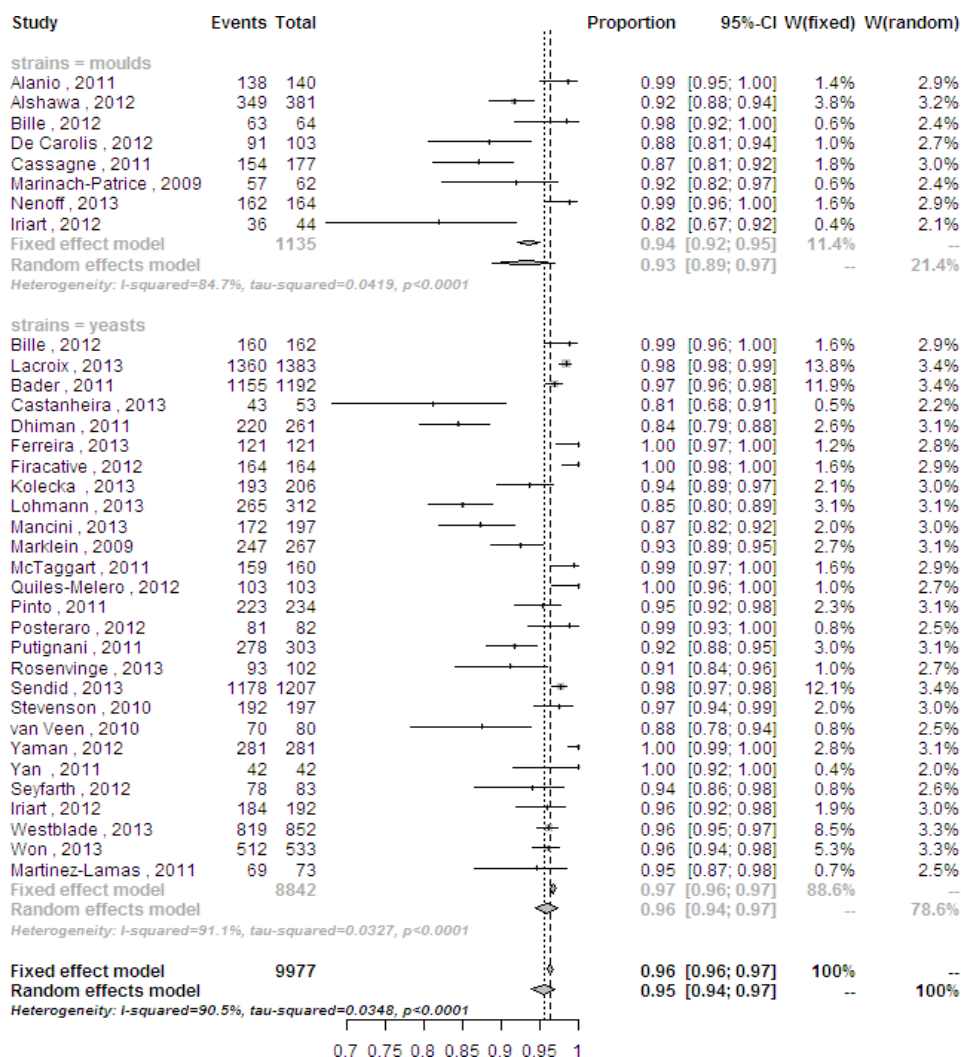

Study	Events	Total	Proportion	95%-CI	W(fixed)	W(random)
strains = moulds						
Alanio , 2011	138	140	0.99	[0.95; 1.00]	1.4%	2.9%
Alshawa , 2012	349	381	0.92	[0.88; 0.94]	3.8%	3.2%
Bille , 2012	63	64	0.98	[0.92; 1.00]	0.6%	2.4%
De Carolis , 2012	91	103	0.88	[0.81; 0.94]	1.0%	2.7%
Cassagne , 2011	154	177	0.87	[0.81; 0.92]	1.8%	3.0%
Marinach-Patrice , 2009	57	62	0.92	[0.82; 0.97]	0.6%	2.4%
Nenoff , 2013	162	164	0.99	[0.96; 1.00]	1.6%	2.9%
Iriart , 2012	36	44	0.82	[0.67; 0.92]	0.4%	2.1%
Fixed effect model		1135	0.94	[0.92; 0.95]	11.4%	--
Random effects model			0.93	[0.89; 0.97]	--	21.4%
Heterogeneity: I-squared=84.7%, tau-squared=0.0419, p<0.0001						
strains = yeasts						
Bille , 2012	160	162	0.99	[0.96; 1.00]	1.6%	2.9%
Lacroix , 2013	1360	1383	0.98	[0.98; 0.99]	13.8%	3.4%
Bader , 2011	1155	1192	0.97	[0.96; 0.98]	11.9%	3.4%
Castanheira , 2013	43	53	0.81	[0.68; 0.91]	0.5%	2.2%
Dhiman , 2011	220	261	0.84	[0.79; 0.88]	2.6%	3.1%
Ferreira , 2013	121	121	1.00	[0.97; 1.00]	1.2%	2.8%
Firacative , 2012	164	164	1.00	[0.98; 1.00]	1.6%	2.9%
Kolecka , 2013	193	206	0.94	[0.89; 0.97]	2.1%	3.0%
Lohmann , 2013	265	312	0.85	[0.80; 0.89]	3.1%	3.1%
Mancini , 2013	172	197	0.87	[0.82; 0.92]	2.0%	3.0%
Marklein , 2009	247	267	0.93	[0.89; 0.95]	2.7%	3.1%
McTaggart , 2011	159	160	0.99	[0.97; 1.00]	1.6%	2.9%
Quiles-Melero , 2012	103	103	1.00	[0.96; 1.00]	1.0%	2.7%
Pinto , 2011	223	234	0.95	[0.92; 0.98]	2.3%	3.1%
Posteraro , 2012	81	82	0.99	[0.93; 1.00]	0.8%	2.5%
Putignani , 2011	278	303	0.92	[0.88; 0.95]	3.0%	3.1%
Rosenvinge , 2013	93	102	0.91	[0.84; 0.96]	1.0%	2.7%
Sendid , 2013	1178	1207	0.98	[0.97; 0.98]	12.1%	3.4%
Stevenson , 2010	192	197	0.97	[0.94; 0.99]	2.0%	3.0%
van Veen , 2010	70	80	0.88	[0.78; 0.94]	0.8%	2.5%
Yaman , 2012	281	281	1.00	[0.99; 1.00]	2.8%	3.1%
Yan , 2011	42	42	1.00	[0.92; 1.00]	0.4%	2.0%
Seyfarth , 2012	78	83	0.94	[0.86; 0.98]	0.8%	2.6%
Iriart , 2012	184	192	0.96	[0.92; 0.98]	1.9%	3.0%
Westblade , 2013	819	852	0.96	[0.95; 0.97]	8.5%	3.3%
Won , 2013	512	533	0.96	[0.94; 0.98]	5.3%	3.3%
Martinez-Lamas , 2011	69	73	0.95	[0.87; 0.98]	0.7%	2.5%
Fixed effect model		8842	0.97	[0.96; 0.97]	88.6%	--
Random effects model			0.96	[0.94; 0.97]	--	78.6%
Heterogeneity: I-squared=91.1%, tau-squared=0.0327, p<0.0001						
Fixed effect model		9977	0.96	[0.96; 0.97]	100%	--
Random effects model			0.95	[0.94; 0.97]	--	100%
Heterogeneity: I-squared=90.5%, tau-squared=0.0348, p<0.0001						

0.7 0.75 0.8 0.85 0.9 0.95 1

Fig. S1 Forest plot for the subanalysis on category of strain at the species level. CI, confidence interval; W, weight; fixed, fixed effect model; random, random effects model; Events, number of correct identification; Total, number of total identification. Gray square representing weight of individual studies with fixed-effect model, horizontal line runs through the square representing 95% confidence interval, gray

diamond representing the overall estimate and its confidence interval, dotted vertical line representing the fixed-effect model and dashed vertical line representing the random-effects model.
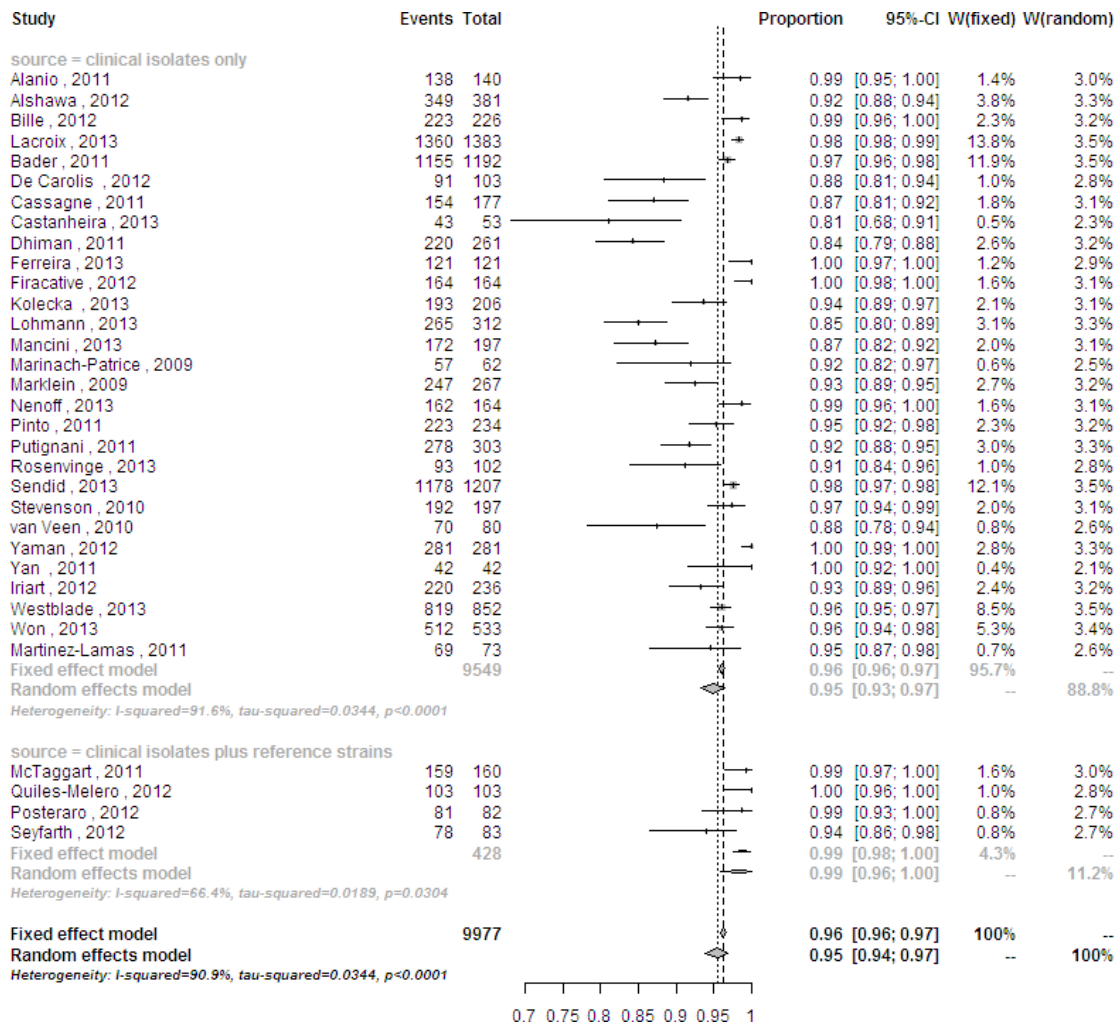

Fig. S2 Forest plot for the subanalysis on source of strain at the species level. CI, confidence interval; W, weight; fixed, fixed effect model; random, random effects model; Events, number of correct identification; Total, number of total identification.
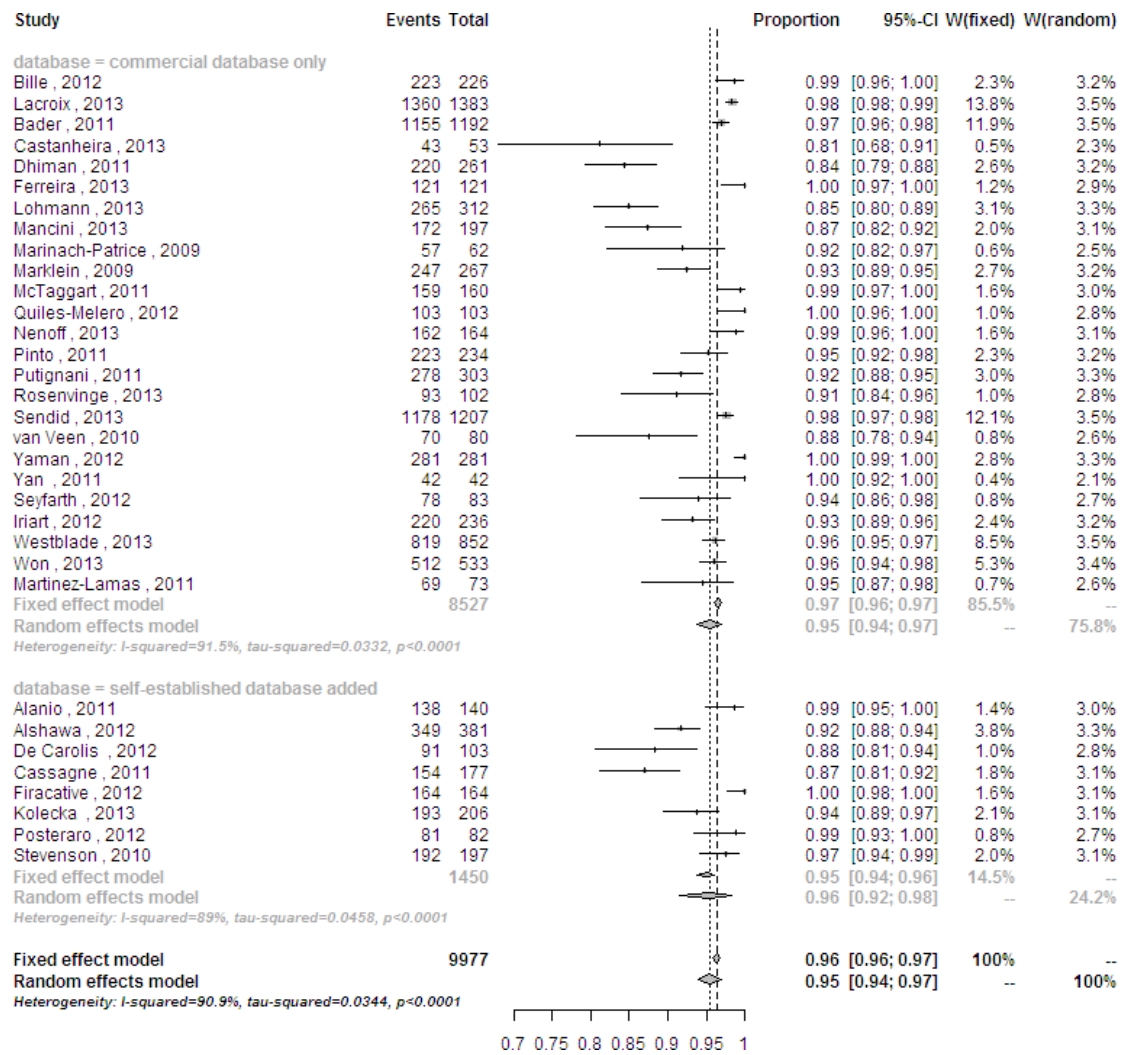
Study	Events	Total	Proportion	95%-CI	W(fixed)	W(random)
database = commercial database only						
Bille , 2012	223	226		0.99 [0.96; 1.00]	2.3%	3.2%
Lacroix , 2013	1360	1383		0.98 [0.98; 0.99]	13.8%	3.5%
Bader , 2011	1155	1192		0.97 [0.96; 0.98]	11.9%	3.5%
Castanheira , 2013	43	53		0.81 [0.68; 0.91]	0.5%	2.3%
Dhiman , 2011	220	261		0.84 [0.79; 0.88]	2.6%	3.2%
Ferreira , 2013	121	121		1.00 [0.97; 1.00]	1.2%	2.9%
Lohmann , 2013	265	312		0.85 [0.80; 0.89]	3.1%	3.3%
Mancini , 2013	172	197		0.87 [0.82; 0.92]	2.0%	3.1%
Marinach-Patrice , 2009	57	62		0.92 [0.82; 0.97]	0.6%	2.5%
Marklein , 2009	247	267		0.93 [0.89; 0.95]	2.7%	3.2%
McTaggart , 2011	159	160		0.99 [0.97; 1.00]	1.6%	3.0%
Quiles-Melero , 2012	103	103		1.00 [0.96; 1.00]	1.0%	2.8%
Nenoff , 2013	162	164		0.99 [0.96; 1.00]	1.6%	3.1%
Pinto , 2011	223	234		0.95 [0.92; 0.98]	2.3%	3.2%
Putignani , 2011	278	303		0.92 [0.88; 0.95]	3.0%	3.3%
Rosenvinge , 2013	93	102		0.91 [0.84; 0.96]	1.0%	2.8%
Sendid , 2013	1178	1207		0.98 [0.97; 0.98]	12.1%	3.5%
van Veen , 2010	70	80		0.88 [0.78; 0.94]	0.8%	2.6%
Yaman , 2012	281	281		1.00 [0.99; 1.00]	2.8%	3.3%
Yan , 2011	42	42		1.00 [0.92; 1.00]	0.4%	2.1%
Seyfarth , 2012	78	83		0.94 [0.86; 0.98]	0.8%	2.7%
Iriart , 2012	220	236		0.93 [0.89; 0.96]	2.4%	3.2%
Westblade , 2013	819	852		0.96 [0.95; 0.97]	8.5%	3.5%
Won , 2013	512	533		0.96 [0.94; 0.98]	5.3%	3.4%
Martinez-Lamas , 2011	69	73		0.95 [0.87; 0.98]	0.7%	2.6%
Fixed effect model		8527		0.97 [0.96; 0.97]	85.5%	--
Random effects model				0.95 [0.94; 0.97]	--	75.8%
Heterogeneity: I-squared=91.5%, tau-squared=0.0332, p<0.0001						
database = self-established database added						
Alanio , 2011	138	140		0.99 [0.95; 1.00]	1.4%	3.0%
Alshawa , 2012	349	381		0.92 [0.88; 0.94]	3.8%	3.3%
De Carolis , 2012	91	103		0.88 [0.81; 0.94]	1.0%	2.8%
Cassagne , 2011	154	177		0.87 [0.81; 0.92]	1.8%	3.1%
Firacative , 2012	164	164		1.00 [0.98; 1.00]	1.6%	3.1%
Kolecka , 2013	193	206		0.94 [0.89; 0.97]	2.1%	3.1%
Posteraro , 2012	81	82		0.99 [0.93; 1.00]	0.8%	2.7%
Stevenson , 2010	192	197		0.97 [0.94; 0.99]	2.0%	3.1%
Fixed effect model		1450		0.95 [0.94; 0.96]	14.5%	--
Random effects model				0.96 [0.92; 0.98]	--	24.2%
Heterogeneity: I-squared=89%, tau-squared=0.0458, p<0.0001						
Fixed effect model		9977		0.96 [0.96; 0.97]	100%	--
Random effects model				0.95 [0.94; 0.97]	--	100%
Heterogeneity: I-squared=90.9%, tau-squared=0.0344, p<0.0001						

0.7 0.75 0.8 0.85 0.9 0.95 1

Fig. S3 Forest plot for the subanalysis on system database at the species level. CI, confidence interval; W, weight; fixed, fixed effect model; random, random effects model; Events, number of correct identification; Total, number of total identification.
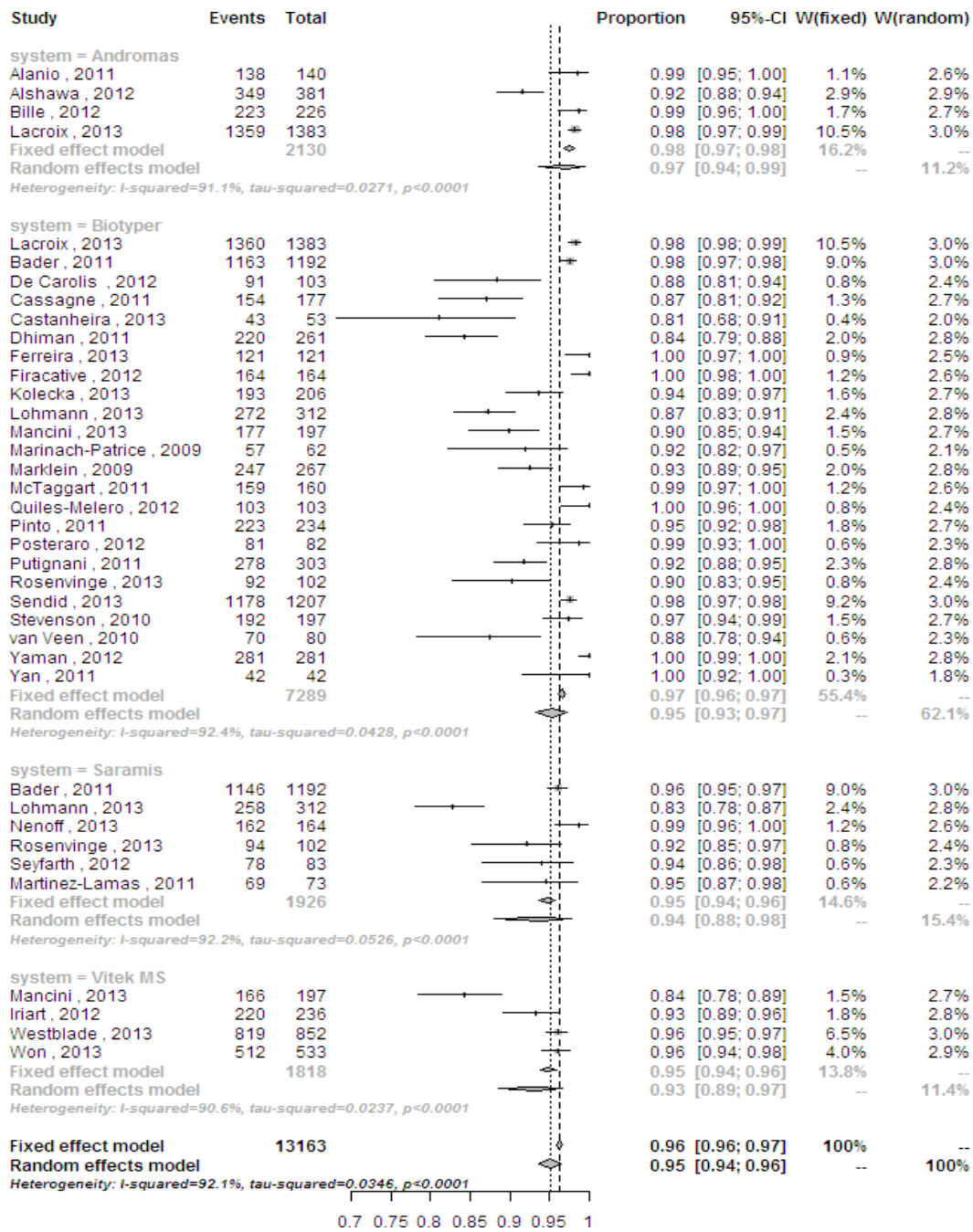
Fig. S4 Forest plot for the subanalysis on different identification systems at the species level. CI, confidence interval; W, weight; fixed, fixed effect model; random, random effects model; Events, number of correct identification; Total, number of total identification.