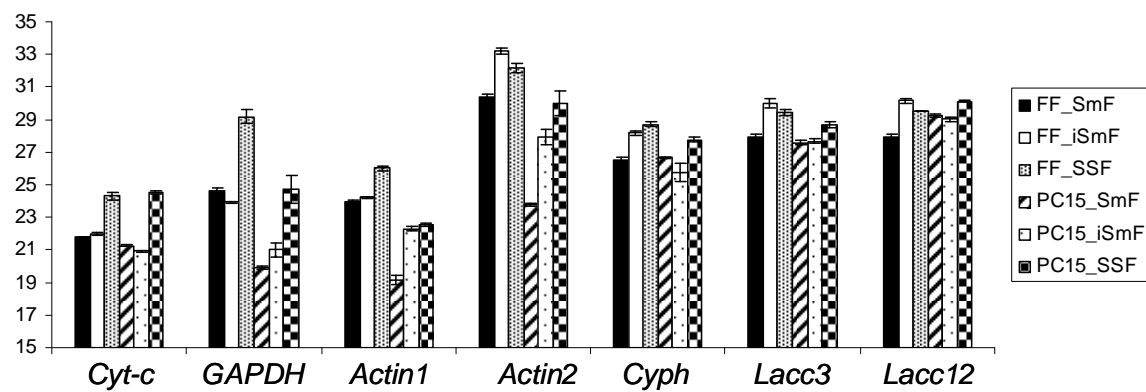FIG S1 Cp values for the seven reference gene candidates measured in strains FF and PC15 in SmF, iSmF and SSF cultures.
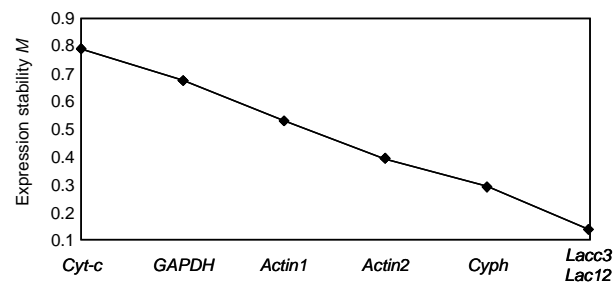
FIG S2 Average expression stability values (*M*) of remaining control genes during stepwise exclusion of the least stable gene under the conditions tested. The least stable gene is on the left side, and two most stable on the right.
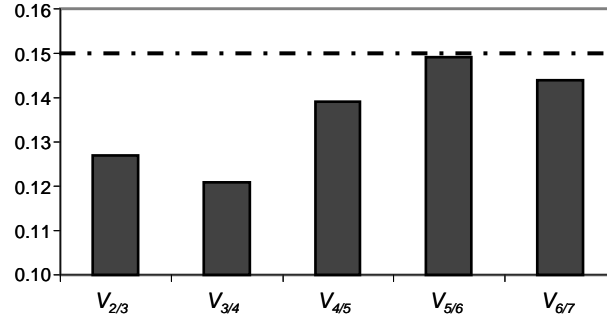
FIG. S3. Parwise variation ($V_{n/n+1}$) between two sequential normalization factors (*NF*) containing an increasing number of reference genes. The dotted line indicates the 0.15 threshold proposed by Vandesompele *et al.* [74].
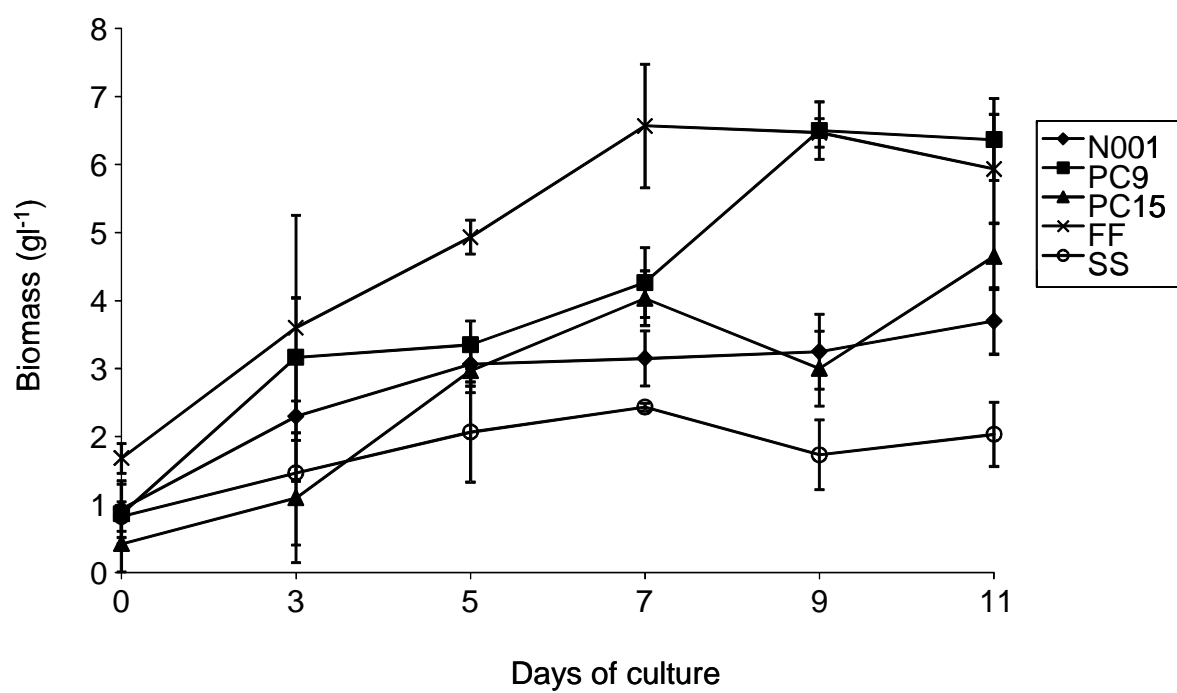
FIG S4 Biomass time course of the five strains in SmF cultures.

FIG. S5. Comparison of the average expression ratios of the laccase genes in iSmF (red bars) and SSF (green bars) cultures compared with that in the control conditions (SmF, blue bars). Panel A indicates the global average values, B the average in the fast growing (*FG*) and C in the slow growing (*SG*) group of strains.

TABLE S1 Background DNA contamination expressed as percentage of relative quantities of the reference gene *Lacc3*

Sample	Background DNA*
N001 SmF	0.40
N001 iSmF	2.75
N001 SSF	7.51
PC9 SmF	0.01
PC9 iSmF	0.29
PC9 SSF	0.30
PC15 SmF	0.14
PC15 iSmF	1.16
PC15 SSF	2.15
FF SmF	0.45
FF iSmF	4.61
FF SSF	0.23
SS SmF	5.36
SS iSmF	0.48
SS SSF	3.19

TABLE S2 Expression data of the laccase genes in cultures induced with wheat straw extract (iSmF) relative to the control (SmF) condition.

	Gene	Efficiency	Expression	SE	95% C.I.	*p* value
N001	*Lacc1*	0.718	**1.098**	0.284	0.914 - 1.272	0.357
	Lacc2	0.743	**1.773**	0.380	1.575 - 2.063	0.035
	Lacc4	0.821	**1.099**	0.204	1.002 - 1.277	0.022
	Lacc5	0.658	**1.750**	0.349	1.488 - 2.089	0.037
	Lacc6	0.703	**1.244**	0.132	1.173 - 1.363	0.093
	Lacc7	0.727	**1.112**	0.405	0.839 - 1.385	0.400
	Lacc8	0.568	**0.873**	0.382	0.582 - 1.217	0.387
	Lacc9	0.777	**1.639**	0.591	1.247 - 2.061	0.035
	Lacc10	0.744	**5.199**	0.689	4.856 - 5.690	0.035
	Lacc11	0.758	**0.904**	0.194	0.788 - 1.071	0.256
PC9	*Lacc1*	0.735	**0.546**	0.186	0.414 - 0.751	0.03
	Lacc2	0.706	**7.719**	4.484	4.766 - 11.326	0
	Lacc4	0.798	**2.290**	0.888	1.634 - 3.092	0.031
	Lacc5	0.687	**1.684**	0.567	1.325 - 2.088	0.031
	Lacc6	0.700	**0.487**	0.077	0.432 - 0.544	0.03
	Lacc7	0.741	**0.649**	0.383	0.400 - 0.986	0.023
	Lacc9	0.880	**0.646**	0.172	0.539 - 0.778	0.030
	Lacc10	0.893	**4.803**	1.301	3.776 - 5.641	0.031
	Lacc11	0.998	**0.631**	0.189	0.507 - 0.748	0
PC15	*Lacc1*	0.756	**1.163**	0.178	1.066 - 1.306	0.012
	Lacc2	0.744	**2.923**	0.912	2.229 - 3.657	0.055
	Lacc4	0.720	**2.098**	0.369	1.909 - 2.394	0.012
	Lacc5	0.649	**1.820**	0.618	1.539 - 2.286	0.012
	Lacc6	0.662	**2.184**	1.132	1.579 - 2.951	0.048
	Lacc7	0.738	**1.076**	0.281	0.891 - 1.324	0.500
	Lacc8	0.560	**2.117**	1.679	1.402 - 3.642	0.034
	Lacc9	0.868	**1.619**	0.469	1.258 - 1.912	0.012
	Lacc10	0.870	**1.218**	0.322	1.015 - 1.541	0.012
	Lacc11	0.888	**1.012**	0.441	0.715 - 1.322	0.821
FF	*Lacc1*	0.711	**0.396**	0.126	0.304 - 0.491	0.034
	Lacc2	0.741	**7.526**	1.293	6.590 - 8.730	0.033
	Lacc4	0.799	**2.924**	0.686	2.410 - 3.544	0.031
	Lacc5	0.705	**0.933**	0.071	0.877 - 0.996	0.155
	Lacc6	0.666	**1.042**	0.881	0.614 - 1.814	0.766
	Lacc7	0.712	**0.479**	0.076	0.425 - 0.532	0.021
	Lacc9	0.736	**0.661**	0.148	0.574 - 0.747	0.034
	Lacc10	0.672	**4.504**	0.615	4.016 - 5.068	0.033
	Lacc11	0.795	**1.112**	0.119	1.047 - 1.195	0.045
SS	*Lacc1*	0.800	**0.999**	0.312	0.803 - 1.218	0.946
	Lacc2	0.750	**1.092**	0.128	1.001 - 1.197	0.148
	Lacc4	0.834	**0.877**	0.206	0.710 - 1.045	0.223
	Lacc5	0.636	**1.136**	0.132	1.043 - 1.204	0.013
	Lacc6	0.679	**1.017**	0.554	0.632 - 1.480	0.971
	Lacc7	0.695	**0.487**	0.045	0.449 - 0.522	0.025
	Lacc8	0.645	**1.394**	0.652	0.963 - 2.092	0.187
	Lacc9	0.766	**1.098**	0.36	0.890 - 1.396	0.455
	Lacc10	0.784	**1.563**	0.109	1.492 - 1.648	0.057
	Lacc11	0.777	**1.152**	0.116	1.086 - 1.255	0.041

TABLE S3 Expression data of the laccase genes on wheat straw solid state fermentation (SSF) cultures relative to the control (SmF) condition.

	Gene	Efficiency	Expression	SE	95% C.I.	*p* value
N001	*Lacc1*	0.718	**0.981**	0.407	0.774 - 1.253	0.700
	Lacc2	0.743	**0.278**	0.028	0.258 - 0.302	0
	Lacc4	0.821	**0.635**	0.212	0.499 - 0.795	0
	Lacc5	0.658	**0.773**	0.283	0.575 - 0.959	0
	Lacc6	0.703	**0.850**	0.170	0.755 - 0.979	0.063
	Lacc7	0.727	**0.835**	0.298	0.627 - 1.028	0.138
	Lacc8	0.568	**1.725**	0.845	1.130 - 2.344	0.068
	Lacc9	0.777	**1.044**	0.414	0.775 - 1.374	0.449
	Lacc10	0.744	**0.897**	0.338	0.685 - 1.042	0.931
	Lacc11	0.758	**0.924**	0.236	0.752 - 1.161	0.413
PC9	*Lacc1*	0.735	**0.250**	0.074	0.199 - 0.316	0.079
	Lacc2	0.711	**1.009**	0.730	0.663 - 1.742	0.865
	Lacc4	0.826	**0.234**	0.173	0.141 - 0.408	0.019
	Lacc5	0.687	**0.350**	0.161	0.247 - 0.519	0
	Lacc6	0.700	**0.525**	0.067	0.477 - 0.559	0
	Lacc7	0.741	**0.360**	0.158	0.263 - 0.469	0.033
	Lacc9	0.880	**0.517**	0.047	0.479 - 0.546	0
	Lacc10	0.893	**0.661**	0.259	0.527 - 0.870	0
	Lacc11	0.998	**0.376**	0.151	0.269 - 0.501	0
PC15	*Lacc1*	0.756	**0.815**	0.103	0.732 - 0.904	0.044
	Lacc2	0.744	**0.356**	0.331	0.226 - 0.596	0.033
	Lacc4	0.803	**0.834**	0.493	0.556 - 1.285	0.481
	Lacc5	0.649	**0.493**	0.195	0.385 - 0.704	0.056
	Lacc6	0.662	**1.412**	0.865	0.859 - 2.031	0.284
	Lacc7	0.738	**0.895**	0.203	0.755 - 1.000	0.167
	Lacc8	1.520	**0.943**	0.832	0.475 - 1.970	0.881
	Lacc9	0.868	**2.590**	0.518	2.235 - 2.892	0.029
	Lacc10	0.870	**0.997**	0.249	0.878 - 1.163	0.963
	Lacc11	0.888	**1.172**	0.374	0.879 - 1.449	0.237
FF	*Lacc1*	0.711	**0.839**	0.224	0.679 - 1.033	0.217
	Lacc2	0.741	**5.636**	0.527	5.368 - 5.994	0.034
	Lacc4	0.799	**0.904**	1.012	0.514 - 1.794	0.782
	Lacc5	0.705	**0.755**	0.262	0.639 - 0.946	0.029
	Lacc6	0.666	**1.084**	0.846	0.729 - 1.746	0.740
	Lacc7	0.712	**0.639**	0.180	0.523 - 0.798	0.064
	Lacc9	0.736	**0.583**	0.197	0.460 - 0.766	0.029
	Lacc10	0.672	**0.741**	0.106	0.650 - 0.831	0
	Lacc11	0.795	**0.636**	0.107	0.584 - 0.711	0.062
SS	*Lacc1*	0.800	**0.620**	0.159	0.508 - 0.754	0.009
	Lacc2	0.750	**0.140**	0.023	0.129 - 0.156	0
	Lacc4	0.834	**0.830**	0.413	0.687 - 1.160	0.304
	Lacc5	0.636	**1.089**	0.346	0.936 - 1.322	0.590
	Lacc6	0.679	**0.457**	0.203	0.305 - 0.629	0.009
	Lacc7	0.695	**1.154**	1.232	0.759 - 2.240	0.984
	Lacc8	0.645	**1.057**	0.363	0.833 - 1.355	0.803
	Lacc9	0.766	**1.025**	0.269	0.831 - 1.190	0.829
	Lacc10	0.784	**1.963**	0.264	1.776 - 2.196	0.084
	Lacc11	0.777	**0.951**	0.091	0.863 - 1.011	0.514