Supplementary material

Table S1. Growth rate (mm/day) of macrofungi on Agar-JSC plates, SSF-JSC flasks and CSC-Agar and SSF-CSC flasks

Fungi		**Growth-rate (mm/day) ± SD**			
Code	**Name**	**Agar-JSC (Petri dish)**	**SSF-JSC (flask)**	**Agar-CSC (Petri dish)**	**SSF-CSC (flask)**
INPA 1643	*Stereum sp.*	3.62 ± 0.49c	NG	3.53 ± 0.57b	NG
INPA 1644	*Schizophyllum commune*	3.70 ± 0.12c	NG	3.78 ± 0.68b	NG
INPA 1646	*Coriolopsis sp.*	7.37 ± 0.13a	2.97 ± 0.34a	6.96 ± 0.36[a]	2.42 ± 0.28a
INPA 1668	*Trametes sp.*	3.66 ± 0.86c	NG	3.47 ± 0.24b	NG
INPA 1681	*Trametes sp.*	3.63 ± 0.24c	NG	3.70 ± 0.41b	NG
INPA 1689	*Trametes sp.*	3.66 ± 0.49 c	NG	3.91 ± 0.67b	NG
INPA 1690	*Trametes sp.*	3.67 ± 0.93c	NG	3.60 ± 0.11b	1.98 ± 0.47a
INPA 1694	NI	3.61 ± 0.42c	2.41 ± 0.65a	3.71 ± 0.17b	NG
INPA 1695	*Trametes sp.*	3.55 ± 0.60c	2.21 ± 0.71a	3.91 ± 0.39b	2.21 ± 0.39a
INPA 1696	*Tyromyces sp.*	3.83 ± 0.48c	2.04 ± 0.43a	3.85 ± 0.48b	2.14 ± 0.34a
INPA 1698	*Trametes elegans*	1.92 ± 0.31e	1.65 ± 0.74b	2.38 ± 0.78c	1.37 ± 0.17b
INPA 1719	*Trametes sp.*	3.36 ± 0.22c	1.43 ± 0.32b	3.70 ± 0.42b	NG

INPA 1720	*Schizophyllum commune*	3.68 ± 0.13c	NG	3.65 ± 0.00b	2.16 ± 0.41a
INPA 1725	*Hexagonia hydnoides*	3.73 ± 0.52c	2.40 ± 0.48a	3.72 ± 0.72b	1.46 ± 0.23b
INPA 1734	NI	2.79 ± 0.26d	NG	3.28 ± 0.50b	NG
INPA 1739	*Flavodon flavus*	7.04 ± 0.02b	2.56 ± 0.48a	7.31 ± 0.20a	2.34 ± 0.49a

NI: no-identified, NG: no-growth. Letters next to each metric value correspond to comparisons of the averages in the same column and not between one column and another (Tukey test $p \leq 0.05$). The fungi in bold were selected to continue the work.

Tabela S2. Literature results for degradation of phorbol esters in JSC, via solid-state fermentation by macrofungi.

Fungus	Degradation rate	Fermentation time	Reference
Pleurotus ostreatus	37%	15 days	LUZ et al., 2013
	60%	45 days	
	99%	60 days	
Pleurotus ostreatus	58%	15 days	KASUYA et al., 2012
	85%	30 days	
	99%	45 days	
Pleurotus sapidus	76%	20 days	BOSE; KEHARIA, 2014
Pleurotus ostreatus	72.5%		
Pleurotus florida	67.9%		
Pleurotus sajor-caju	67.9%		
Ganoderma lucidum	100%	20 days	BOSE; KEHARIA, 2014
Trametes zonata	100%		
Trametes gibbosa	91.7%		
Trametes versicolor	89%		
Trametes hirsuta	81.6%		
Phanerochaete chrysosporium	44.9%		
Phlebia rufa	97%	30 days	BARROS *et al*., 2011
Bjerkandera adusta	91%		
Ganoderma resinaceum	20%		

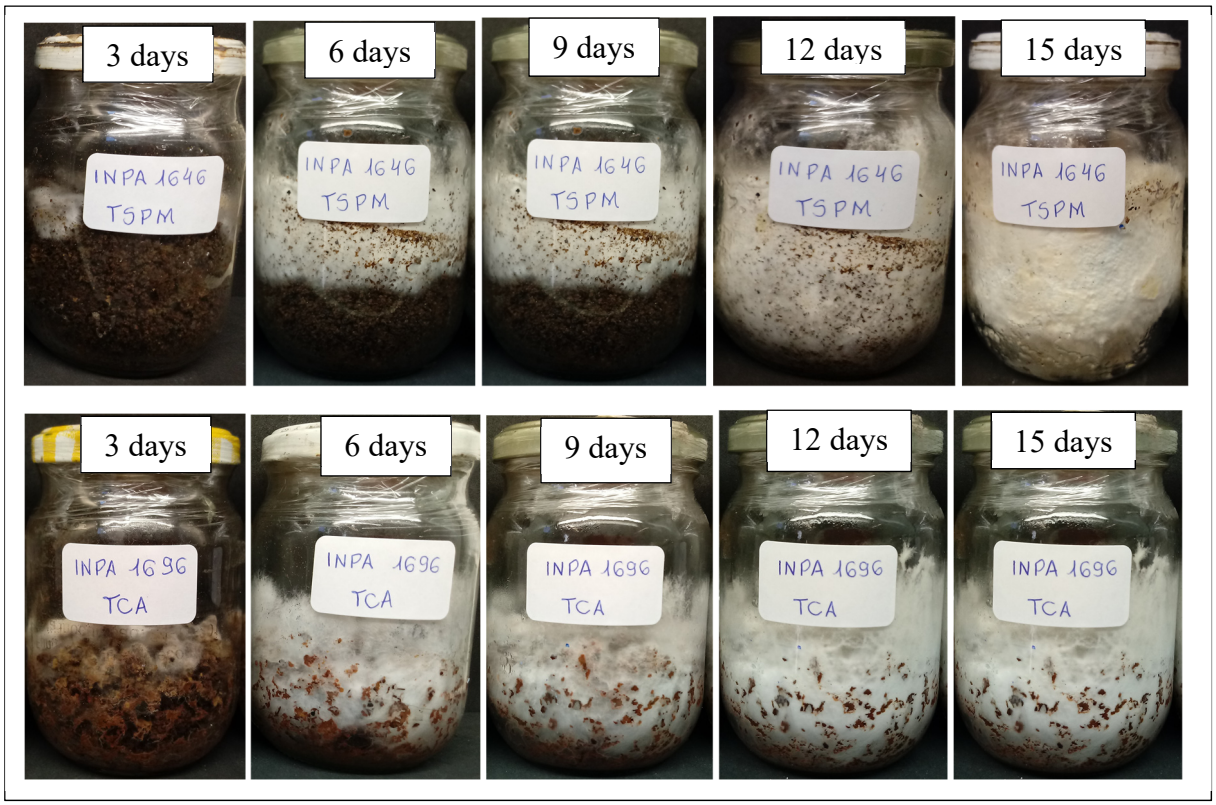

Figure S1. Pictures of the glass flasks containing the fermented cakes after 3, 6, 9, 12 and 15 days of incubation at 28°C, to illustrate the level of colonization of JSC and CSC by macrofungi *Coriolopsis sp.* and *Tyromices sp*., respectively.

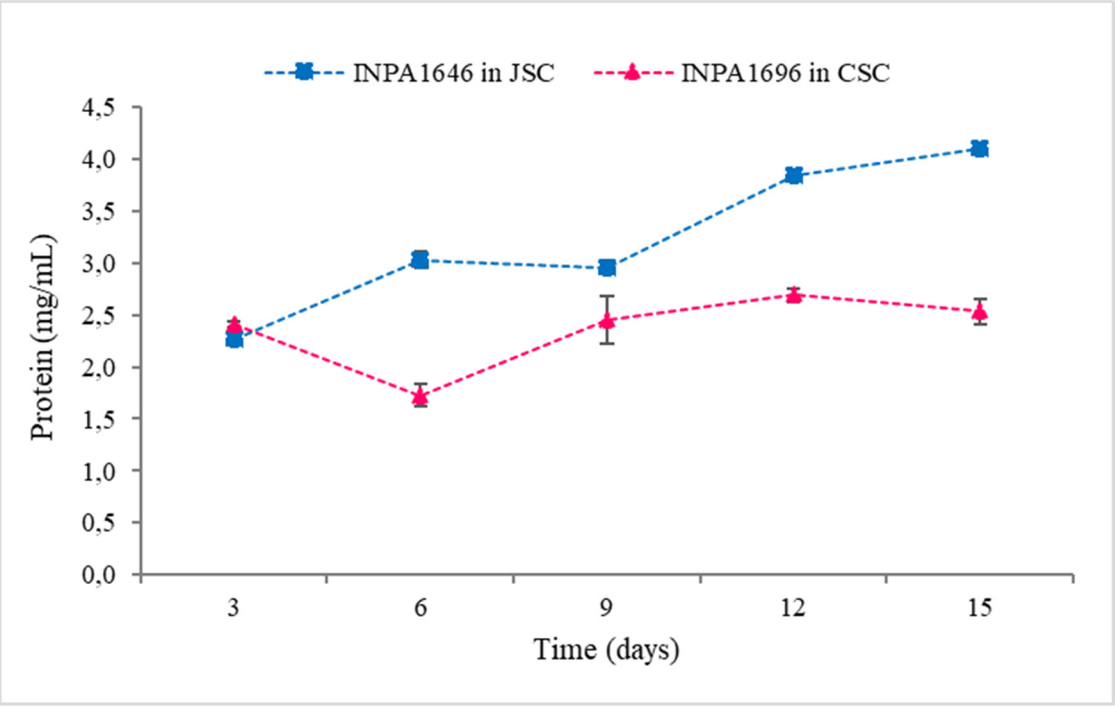

Figure S2. Total soluble protein kinetics in the crude extracts of SSF-JSC and SSF-CSC using *Coriolopsis sp*. and *Tyromices sp*., respectively.

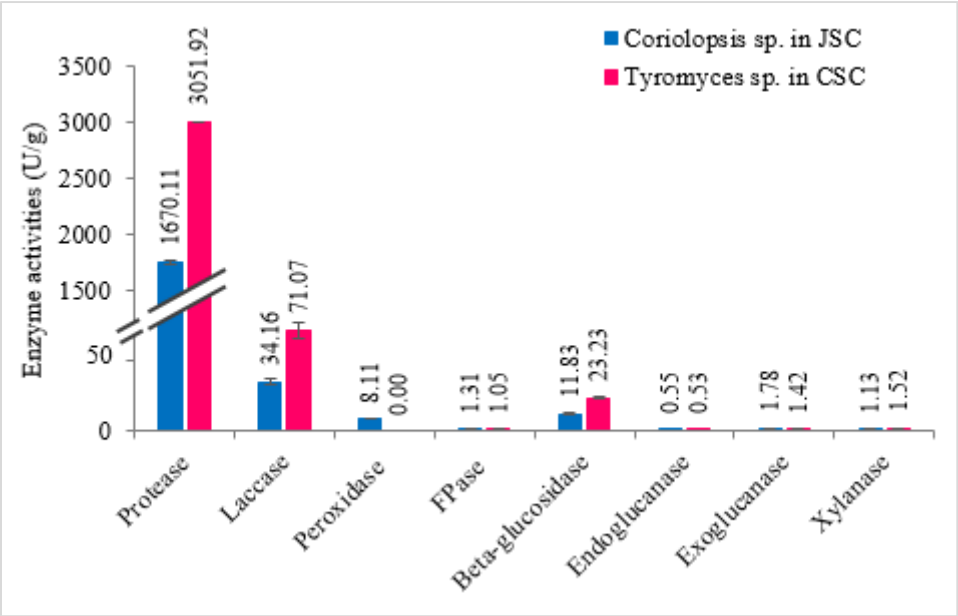

Figure S3. Total enzyme activities in the crude extracts of SSF-CSC and SSF-JSC using macrofungi *Tyromices sp*. and *Coriolopsis sp*., respectively, after 15 days of fermentation.