Supplement to Point-by-point response to the issues raised by Referee 2

p-values for pairwise multiple comparison procedures	Comparison for factor	Comparison	Fisher LSD	Tukey
$\delta^{13}C$-CH_4	**fungi**	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
	substrate	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	*0.049*	0.113
	substrate within *P. sapidus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	<0.001
	substrate within *L. sulphureus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	<0.001
	fungi within pine wood	*P. sapidus* vs. *L. sulphureus*	*0.021*	*0.022*
	fungi within grass	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
	fungi within corn	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
$\delta^{13}C$-CO_2	**fungi**	*P. sapidus* vs. *L. sulphureus*	0.008	0.009
	substrate	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	<0.001
	substrate within *P. sapidus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	<0.001
	substrate within *L. sulphureus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	<0.001
	fungi within pine wood	*P. sapidus* vs. *L. sulphureus*	*0.164*	*0.164*
	fungi within grass	*P. sapidus* vs. *L. sulphureus*	0.020	0.020
	fungi within corn	*P. sapidus* vs. *L. sulphureus*	0.223	0.224
CH_4 emission rates	**fungi**	*P. sapidus* vs. *L. sulphureus*	0.026	0.026
	substrate	corn vs. pine	*0.700*	0.919
		corn vs. grass	<0.001	0.001
		grass vs. pine	<0.001	0.003
	substrate within *P. sapidus*	corn vs. pine	0.003	0.008
		corn vs. grass	<0.001	0.001

		grass vs. pine	0.277	0.510
	substrate within *L. sulphureus*	corn vs. pine	0.008	0.020
		corn vs. grass	0.093	0.203
		grass vs. pine	<0.001	<0.001
	fungi within pine wood	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
	fungi within grass	*P. sapidus* vs. *L. sulphureus*	0.254	0.254
	fungi within corn	*P. sapidus* vs. *L. sulphureus*	0.089	0.089
CO_2 emission rates	**fungi**	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
	substrate	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	<0.001	0.003
	substrate within *P. sapidus*	corn vs. pine	0.346	0.602
		corn vs. grass	0.010	0.026
		grass vs. pine	0.002	0.005
	substrate within *L. sulphureus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	<0.001	<0.001
		grass vs. pine	0.054	0.123
	fungi within pine wood	*P. sapidus* vs. *L. sulphureus*	0.482	0.483
	fungi within grass	*P. sapidus* vs. *L. sulphureus*	0.267	0.267
	fungi within corn	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
CH_4 : CO_2 emission ratio	**fungi**	*P. sapidus* vs. *L. sulphureus*	0.474	0.474
	substrate	corn vs. pine	0.190	0.378
		corn vs. grass	0.023	0.057
		grass vs. pine	0.249	0.470
	substrate within *P. sapidus*	corn vs. pine	<0.001	0.002
		corn vs. grass	0.618	0.867
		grass vs. pine	0.001	0.004
	substrate within *L. sulphureus*	corn vs. pine	<0.001	<0.001
		corn vs. grass	0.001	0.003
		grass vs. pine	0.035	0.083
	fungi within pine wood	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001
	fungi within grass	*P. sapidus* vs. *L. sulphureus*	0.329	0.329
	fungi within corn	*P. sapidus* vs. *L. sulphureus*	<0.001	<0.001