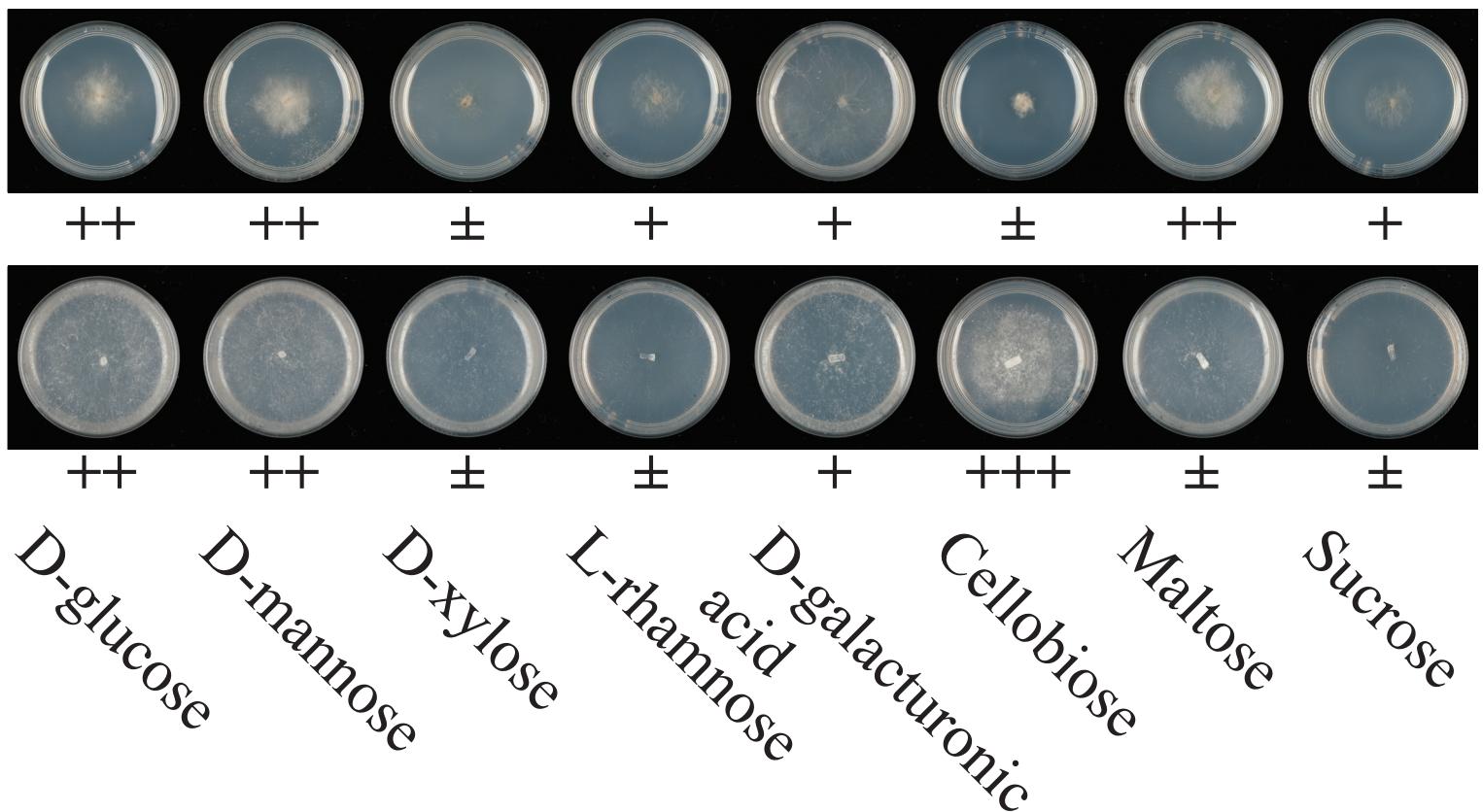


P. carnosa



P. carnosa

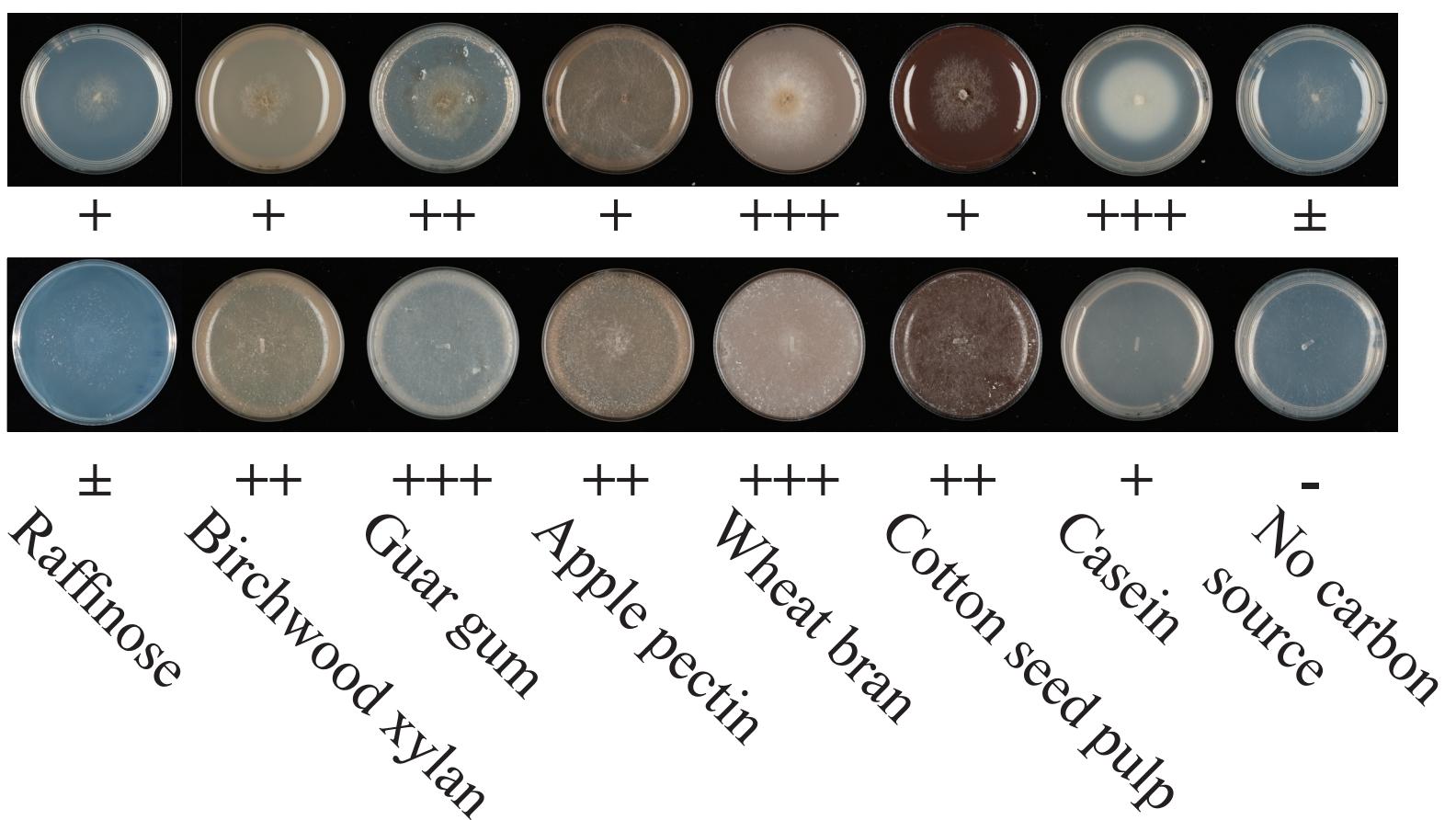


Fig. S1. Pictures of *P. carnosa* and *P. chrysosporium* grown on various carbon sources.

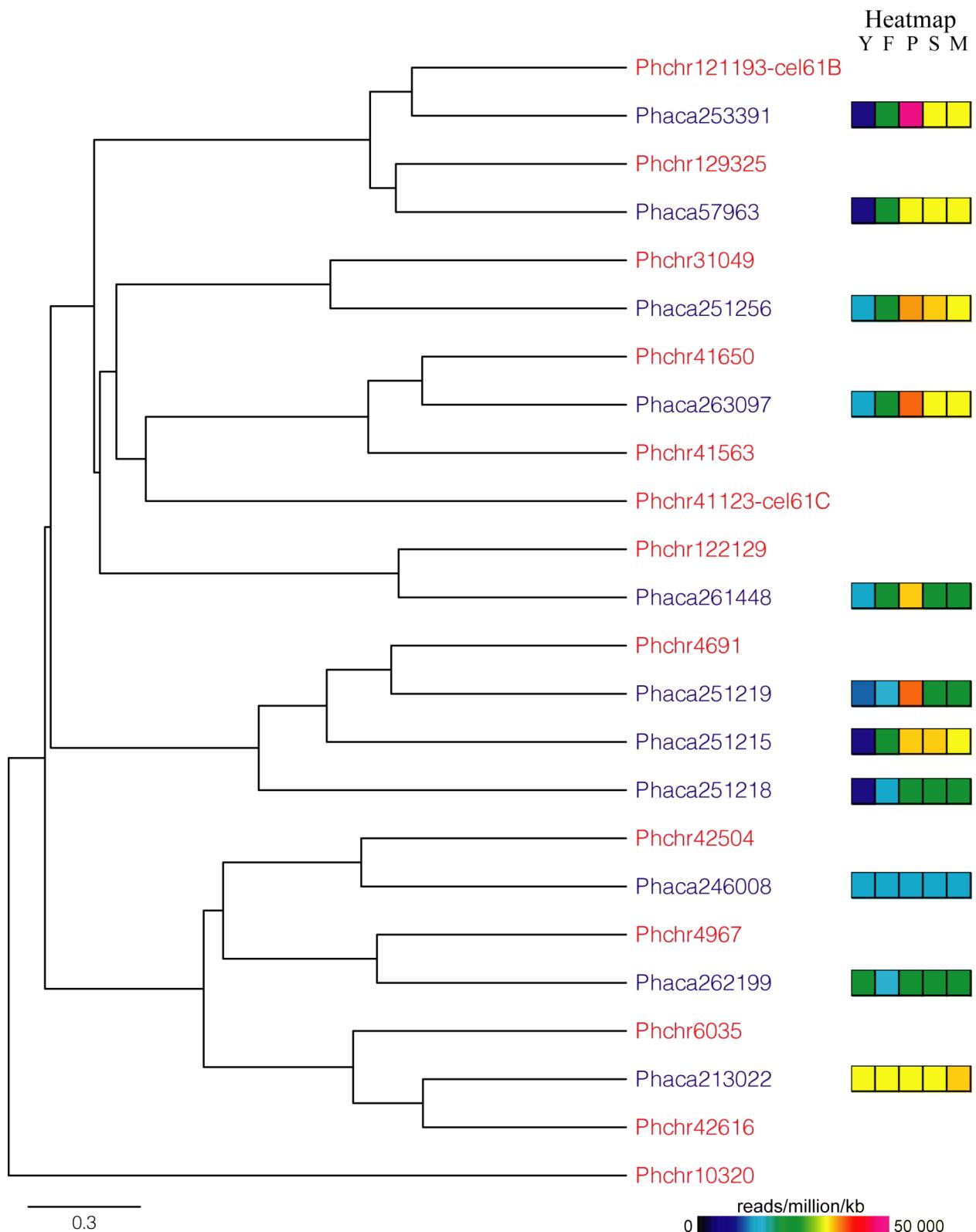


Fig. S2. Phylogenetic tree of GH61 enzymes from *P. carnosa* and *P. chrysosporium*.

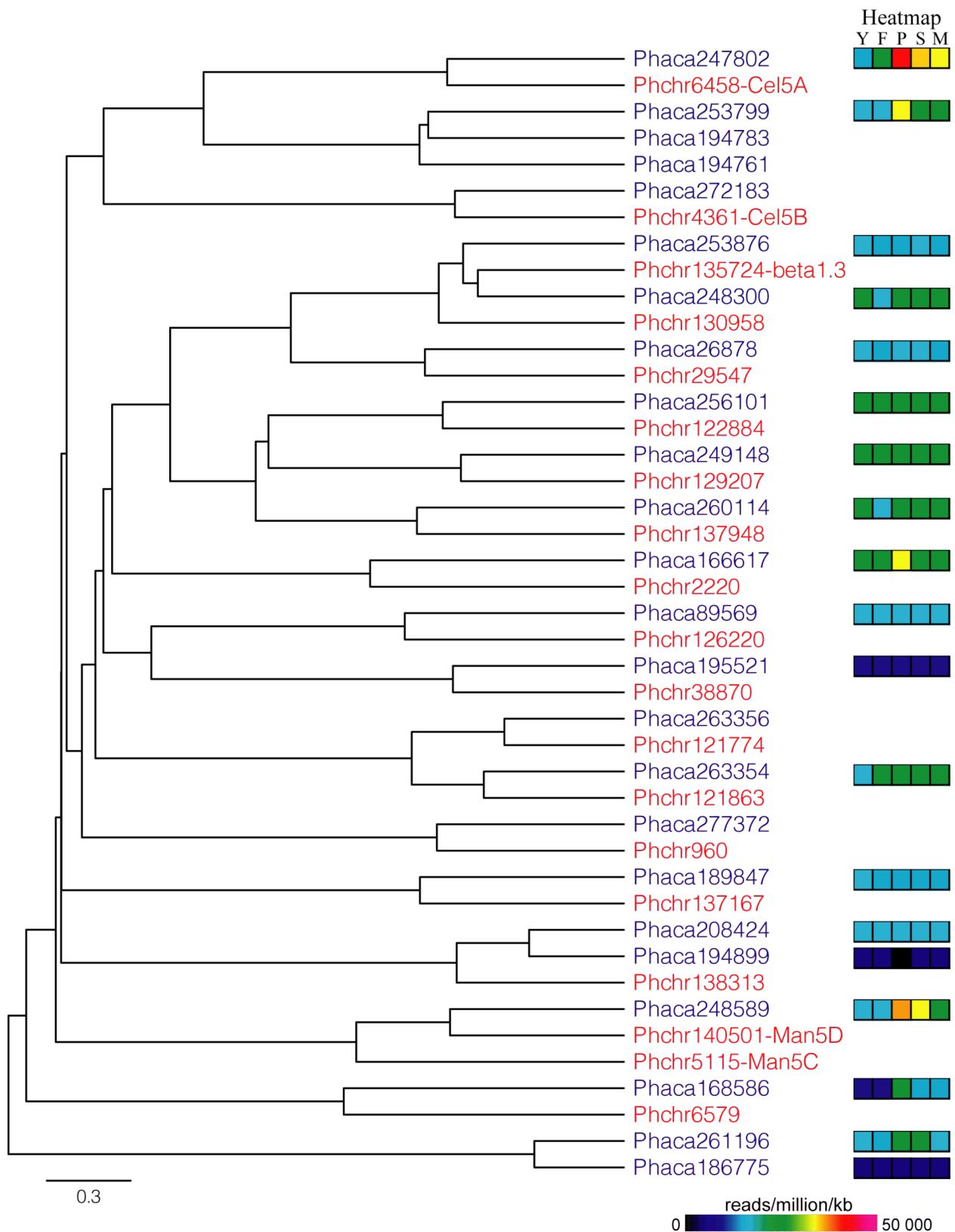


Fig. S3. Phylogenetic tree of GH5 enzymes in *P. carnosa* and *P. chrysosporium*.

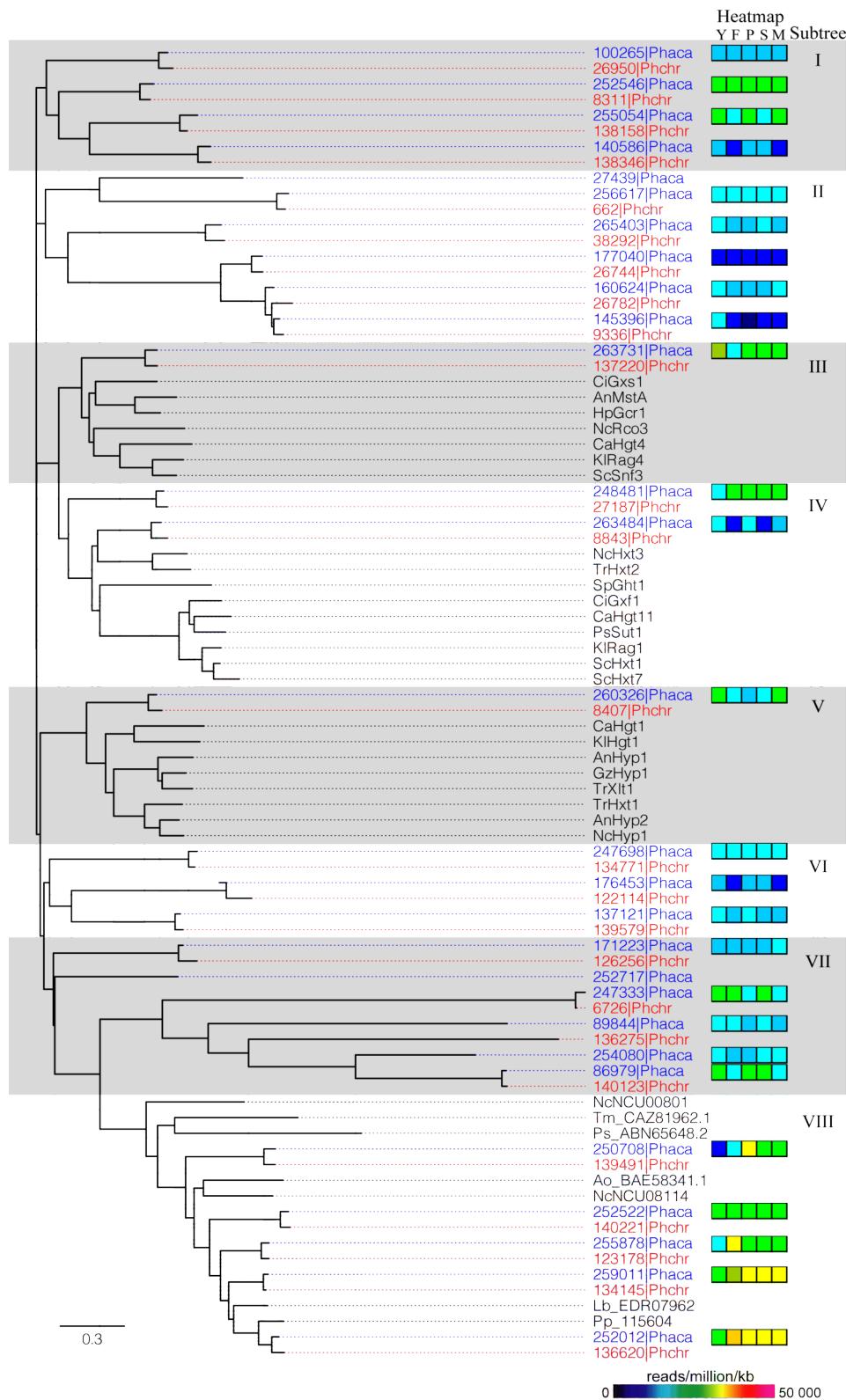


Fig. S4. Phylogenetic tree of predicted sugar transporters and permeases from genomes of *P. carnosa* and *P. chrysosporium*.

A	Species	Protein ID	Position	Introns	Alternative Name*
	<i>P. carnosa</i>	144982	5:3175629-3177912	1-2-3-4-5-6-7	1138
	<i>P. carnosa</i>	256991	5:3189583-3192656	1- 3-4-5-6-7	31
	<i>P. carnosa</i>	256980	5:3167371-3169157	1- 3-4-5-6-7	383+789
	<i>P. carnosa</i>	94399	5:3208808-3210366	1-2-3-4-5-6-7	1168
	<i>P. carnosa</i>	256997	5:3195944-3197614	1-2-3-4-5-6-7	1579
	<i>P. carnosa</i>	256984	5:3180144-3181864	1-2-3-4-5-6-7	697
	<i>P. carnosa</i>	262882	10:495184-496977	1-2- 4-5-6-7	45
	<i>P. chrysosporium</i>	878	1:2814195-2815673	1- 3-4-5-6-7	<i>mnp3</i>
	<i>P. chrysosporium</i>	140708	15:846535-848049	1-2- 4-5-6-7	<i>mnp1</i>
	<i>P. chrysosporium</i>	8191	15:853637-855322	1-2- 4-5-6-7	<i>mnp4</i>
	<i>P. chrysosporium</i>	3589	5:505970-507645	1-2-3-4-5-6-7	<i>mnp2</i>
	<i>P. chrysosporium</i>	4636	7:1395073-1396542	1-2-3- 5-6-7	<i>mnp5</i>

B	Species	Protein ID	Position	Introns	Alternative Name*
	<i>P. carnosa</i>	263501	10:1969940-1971733	1-2-3-4-5-6- 8-9-10	9
	<i>P. carnosa</i>	213241	10:1976572-1979063	1-2-3-4-5-6- 8-9-10	489
	<i>P. carnosa</i>	152156	10:2018444-2020054	1-2-3-4-5-6-7-8-9-10	8106
	<i>P. carnosa</i>	212237	9:404873-406916	2-3-4-5-6-7-8-9-10	9982+9983
	<i>P. chrysosporium</i>	10957	19:373851-375408	1-2-3-4-5-6- 9-10	<i>lipA</i>
	<i>P. chrysosporium</i>	131707	19:451627-454927	1-2-3-4-5-6- 9-10	<i>lipI</i>
	<i>P. chrysosporium</i>	121822	19:376752-378294	1-2-3-4-5-6- 9-10	<i>lipB</i>
	<i>P. chrysosporium</i>	11110	19:358710-360433	1-2-3-4-5-6- 9-10	<i>lipE</i>
	<i>P. chrysosporium</i>	8895	19:448641-450192	1-2-3-4-5-6- 9-10	<i>lipG</i>
	<i>P. chrysosporium</i>	121806	19:441862-443404	1-2-3-4-5-6- 9-10	<i>lipH</i>
	<i>P. chrysosporium</i>	131738	19:393154-394751	1-2-3-4-5-6-7- 9-10	<i>lipC</i>
	<i>P. chrysosporium</i>	122202	9:1444920-1446516	1-2-3-4-5-6- 8-9-10	<i>lipF</i>
	<i>P. chrysosporium</i>	131709	19:439914-441504	1-2-3-4-5-6-7-8- 10	<i>lipJ</i>
	<i>P. chrysosporium</i>	6811	11:1416506-1418221	2-3- 5-6-7-8-9-10	<i>lipD</i>

Fig. S5. Phylogeny, genome position, and intron distribution of genes encoding manganese peroxidases and lignin peroxidases.

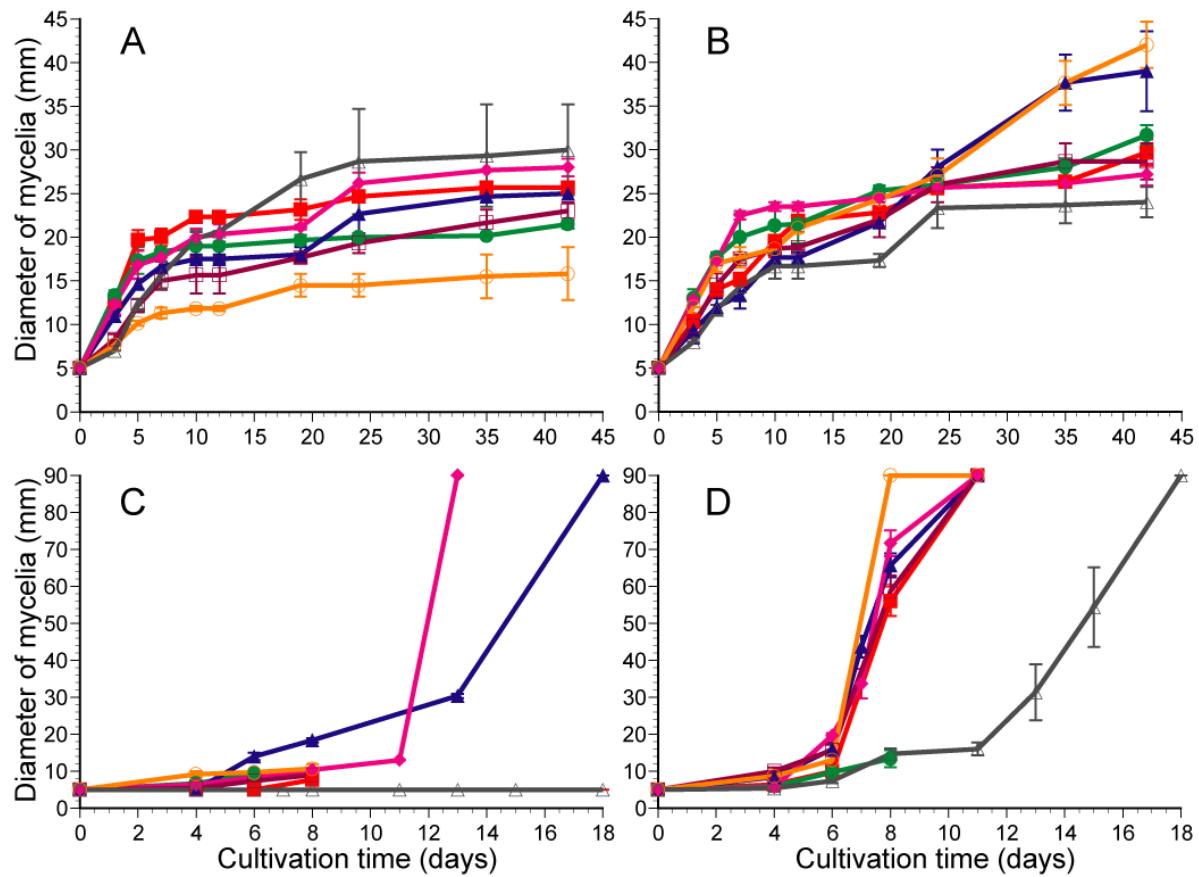


Fig. S6. Mycelial growth of *P. carnosa* and *P. chrysosporium* on different hardwood and softwood species.

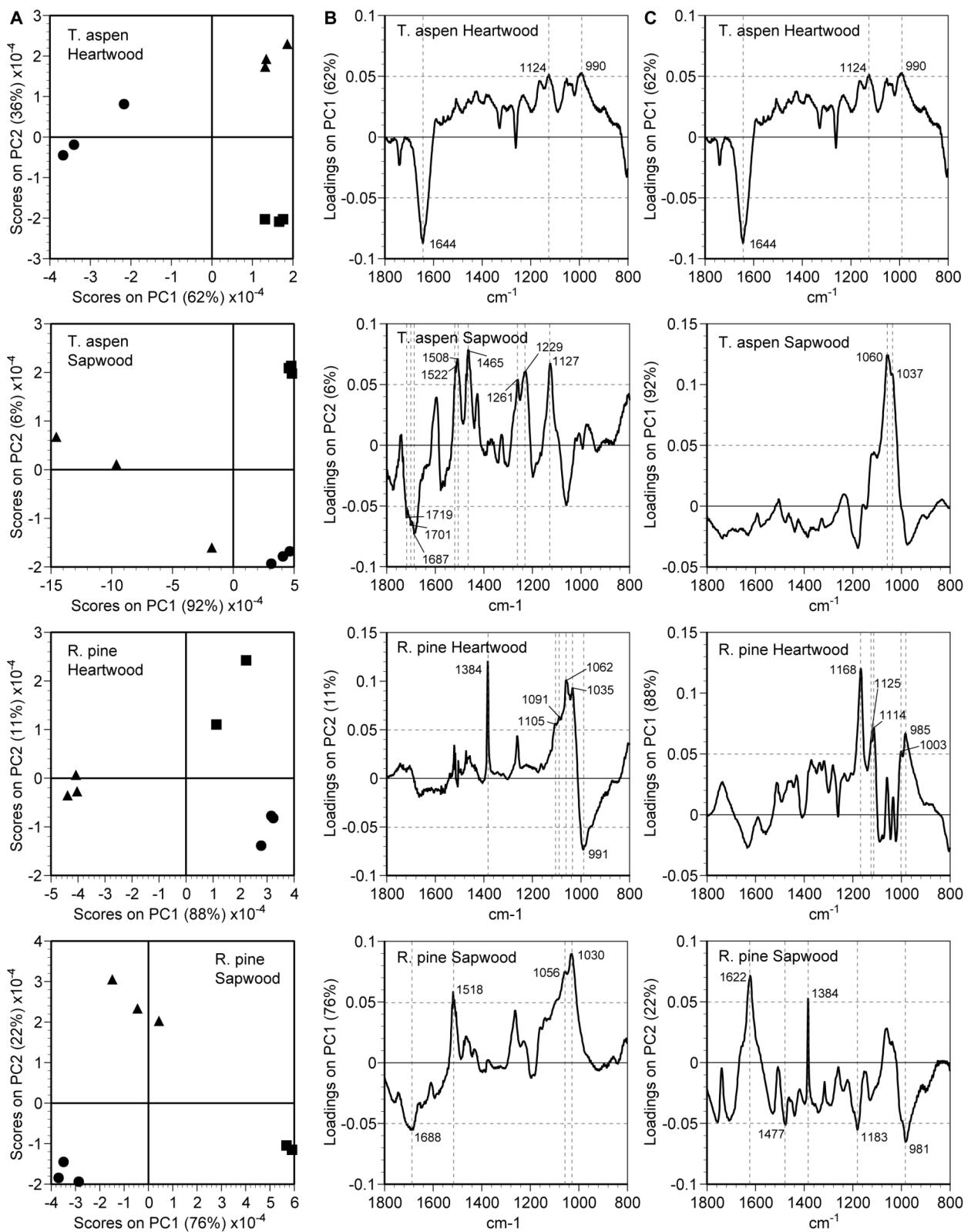


Fig. S7. Different mode of wood decay described by FT-IR analysis.