

**Table S6** Responses of the 12 species of mushrooms to 0.1 mM selenite in the solid cultivation.

Species	Growth rate	Colony density	Colony height	Other morphological characters <sup>c</sup>	Pigment secretion	Comprehensive sensitivity
<i>F. velutipes</i>	-- (11.2%)	—	○	○	○	<b>moderate</b>
<i>W. cocos</i>	-- (14.3%)	--	--	++	++	high
<i>P. ostreatus</i>	○	○	○	○	++	moderate
<i>P. eryngii</i>	○	○	○	○	○	low
<i>G. lingzhi</i> <sup>a</sup>	○	○	○	○	○	low
<i>G. lingzhi</i> <sup>b</sup>	-- (22.9%)	○	○	○	○	moderate
<i>L. edodes</i>	○	○	—	○	○	low
<i>I. sanghuang</i>	○	○	○	○	++	moderate
<i>O. radicata</i>	○	○	○	○	○	low
<i>A. polytricha</i>	+ (2.2%)	○	○	○	○	low
<i>H. marmoreus</i>	+ (8.2%)	○	○	○	○	low
<i>M. importuna</i>	○	—	—	++	++	high
<i>C. militaris</i>	+ (9.2%)	—	--	○	—	moderate

a: 1-6 days of mycelial growth, b: 6-11 days of mycelial growth.

c: changes of colony morphology characters other than growth rate, colony density and height, for example, shape of colony margin, appearance of sclerotium, twists of mycelia.

○: no significant change after 0.1 mM selenite treatment compared with CK, +: slight increase, ++: obvious increase, -: slight decrease, --: obvious decrease. For growth rate, data in the parentheses are changes of *k* after 0.1 mM selenite treatment, and those less than 10% were regarded as slight changes, those more than 10% were regarded as obvious changes.

For the comprehensive sensitivity, low: no obvious change in colony characters; moderate: only one obvious change; high: two or more obvious changes.