

## **Electronic supplementary material**

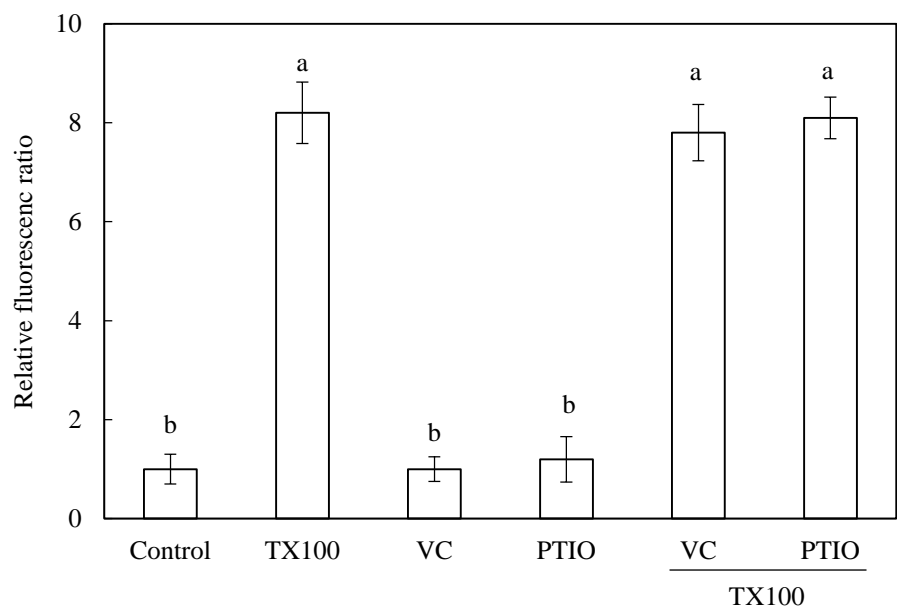
### **Nitric Oxide and Hydrogen Peroxide Signaling in Extractive *Shiraia* Fermentation by Triton X-100 for Hypocrellin A**

Xin Ping Li <sup>1</sup>, Yue Wang <sup>1</sup>, Yan Jun Ma <sup>1</sup>, Jian Wen Wang <sup>1</sup>  
and Li Ping Zheng <sup>2,\*</sup>

\*Correspondence: lpzheng@suda.edu.cn; Tel.: +86-521-  
65880195

**Table S1.** Primers used in RT-qPCR. F: forward primer, R: reverse primer.

Gene symbol	Gene name	Sequence
<i>PKS</i>	Polyketide synthase	F: TGCTGAGGTAGCAGTCAAGC R: TTATGCTACGGTCGTCGCTC
<i>Mono</i>	Salicylate 1-monooxygenase	F: TCTCGGGGAATTATGGCACG R: ACAACCGTTCTCGCATCAGT
<i>OmeF</i>	O-methyltransferase	F: GAACTACCTGAAGGCACGCT R: GCTCGGAAGGATACTCGCTC
<i>MCO</i>	Multicopper oxidase	F: TATGGCGCTACGAGTGGAC R: ACTCCCTGGCCGATAACGTA
<i>FAD</i>	FAD/FMN-containing dehydrogenase	F: TGTGACCGCCATCACCTTAC R: TTGTCGTATGGGTGGGAAGC
<i>MFS</i>	Major facilitator superfamily	F: TCCCGTAGCCTTGCTTTCTG R: CCGGCTTCTTCTTGACGCTA
<i>ABC</i>	ATP-binding cassette	F: GACTTGAGCCTATCCGCCTC R: AGAGTCGCCTCTGTGATCCT
18S rRNA	18S rRNA gene	F: GAAAGTTAGGGGATCGAAGA R: TAGTCGGCATAGTTTACGGT



**Figure S1.** The effect of TX100, VC and PTTIO on membrane permeability of hyphal cells in the extractive fermentation. TX100 was added at 25 g/L at 36 h of the fermentation. The membrane integrity of hyphal cells was detected by a nucleic acid stain fluorescent dye SYTOX Green at 0.5  $\mu$ mol/L. The dosage and procedure for VC and PTIO addition was specified in Figure 3 and 4. The relative fluorescence ratio is defined to the ratio of fluorescence intensity at a given time to that of the control. Values are mean  $\pm$  SD from three independent experiments. Different letters above the bars mean significant differences ( $p < 0.05$ ).