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The antiviral role of heat shock protein 27 against red spotted grouper nervous necrosis virus infection in sea perch

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1           **The antiviral role of heat shock protein 27 against red spotted**  
2           **grouper nervous necrosis virus infection in sea perch**

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4           **Yao Le<sup>1</sup>, Peng Jia<sup>1</sup>, Yilin Jin, Wei Liu, Kuntong Jia<sup>\*</sup>, Meisheng Yi<sup>\*</sup>**

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18  
19 **Abbreviations**

20 HSP, heat shock protein; RGNNV, red spotted grouper nervous necrosis virus; IFN,  
21 interferon; Cyto, cytochrome *c*; APAF-1, apoptotic protease activating factor-1; Bcl-2,  
22 B-cell lymphoma-2; Mcl-1, myeloid cell leukemia 1; Bax, Bcl-2 associated x; Bad,  
23 Bcl-2 associated agonist of cell death; Endo G, endonuclease G; RDRP, RNA  
24 dependent RNA polymerase; TCID<sub>50</sub>, 50% tissue culture infective dose; DMEM,  
25 Dulbecco's Modified Eagle's Medium; FBS, fetal bovine serum; PBS, phosphate  
26 buffer saline; hpi, hour post infection; MOI, multiplicity of infection; PI, propidium  
27 iodide; UTR, untranslated regions; Poly I:C, polyinosinic-polycytidylic acid

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