Supporting Information
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Jaspiferin A and B: Two Mew Secondary Metabolites from the South China Sea Sponge *Jaspis stellifera*

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Jaspiferin A (**1**): colorless solid, $[\alpha]_D^{25}$ –3.7° (*c* 0.01, acetone), HRFAB-MS *m/z*: $[M+1]^+$ 321.2067250 (caculated for $C_{19}H_{29}O_4$, 321.2060212); IR(KBr)ν_{max}: 2958, 2924, 2853, 1705, 1576, 1457, 1175cm^{-1}; The data of ^{1}H, ^{13}C NMR see **Table 1**。

Jaspiferin B (**2**): yellow solid, HREI-MS *m/z*: $[M]^+$ 218.0945(caculated for $C_{13}H_{14}O_3$, 218.0943). EI-MS *m/z*: 167, 175, 218$[M]^+$. IR(KBr)ν_{max} 2924, 2854, 1713, 1662, 1118cm^{-1}; ^{1}H NMR(in $CDCl_3$): δ_H 7.55 (1H, dd, *J* =11.9, 15.2 Hz, H-8), 7.20 (1H, d, *J* = 11.9 Hz, H-7), 7.18

(1H, d, *J* = 6.8 Hz, H-3), 6.45 (1H, d, *J* =15.2 Hz, H-9), 6.33 (1H, d, *J* = 6.8 Hz, H-4), 2.16 (3H, br s, H-11), 2.13 (3H, br s, H-12), 2.35 (3H, s, H-13).

Gibepyrone F (**3**) [7]: colorless needle crystal, ^{1}H NMR(in $CDCl_3$): δ_H 7.28 (1H, dd, *J* = 1.0，6.5Hz, H-4), 6.99 (1H, d, *J* = 6.5Hz, H-5)，2.54 (3H, s, H-8), 2.22 (3H, d, *J* = 1.0Hz, H-9); ^{13}C NMR (in $CDCl_3$): δ_C 191.8 (s, C-7), 161.7 (s, C-2), 153.8 (s, C-6), 138.3 (d, C-4), 132.4 (s, C-3), 107.5 (d, C-5), 26.2 (q, C-8), 17.3 (q, C-9); ESI-MS *m/z*:141，153$[M+1]^+$，175$[M+Na]^+$.

p-hydroxy benzaldehyde (**4**)[8]: colorless crystal, ^{1}H NMR(in $CDCl_3$): δ_H 9.90 (1H, s, H-1'), 7.85 (2H, d, *J* = 8.5Hz, H-2, 6), 7.00 (2H, d, *J* = 8.5Hz, H-3, 5), 5.95 (brs，-OH)。ESI-MS *m/z*: 145$[M+1]^+$.

3-Indole-3-aldehyde (**5**)[9]: colorless needle crystal, ^{1}H NMR (in $CDCl_3$): δ_H 7.36 (2H, m, H-5, 6), 7.47 (1H, dd, *J* = 5.0, 3.7Hz, H-7), 7.88 (1H, d, *J* = 3.0Hz, H-2), 8.35 (1H, dd, *J* = 5.0Hz, 3.7Hz, H-4), 8.81 (1H, br s, NH), 10.10 (1H, s, CHO). ^{13}C NMR (in $CDCl_3$): δ_C 185.5 (d, CHO), 135.4 (d, C-2), 120.1 (d, C-3), 122.4 (d, C-4), 124.9 (d, C-5), 123.5 (d, C-6), 111.9 (d, C-7), 125.7 (s, C-8), 138.9 (s, C-9).

Thymine (**6**)[10]: white powder, ^{1}H NMR (in $CDCl_3$)： δ_H 11.00 (1H, br s), 10.59 (1H, br s), 7.25 (1H, s), 1.72 (3H, s). ^{13}C NMR (in $CDCl_3$) δ_C: 151.5 (s, C-2), 164.9 (s, C-4), 107.2 (d, C-5), 137.6 (s, C-6), 13.3 (q, C-5).

24(28)-dehydroaplysterol (**7**)[11]: colorless needle crystal, ^{1}H NMR(in $CDCl_3$): δ_H 5.35 (1H, m, H-6), 4.69 (2H, s, H-28), 3.52 (1H, m, H-3), 1.01 (3H, s, H-19), 1.00 (3H, d, *J* = 6.8Hz, H-27), 0.95 (3H, d, *J* = 6.5Hz, H-21), 0.83 (3H, t, *J* = 7.4Hz, H-29), 0.68 (3H, s, H-18); ^{13}C NMR (in $CDCl_3$): 37.3 (t, C-1), 31.9 (t, C-2), 71.8 (d, C-3), 42.3 (t, C-4), 140.8 (s, C-5), 121.7 (d, C-6), 31.7 (t, C-7), 35.8 (d, C-8), 50.1 (d, C-9), 36.5 (s, C-10), 21.1 (t, C-11), 39.8 (t, C-12), 42.4 (s, C-13), 56.8 (d, C-14), 24.3 (t, C-15), 28.3 (t, C-16), 56.0 (d, C-17), 11.9 (q, C-18), 19.4 (q, C-19), 35.7 (d, C-20), 18.7 (q, C-21), 34.6 (t,C-22), 30.4 (t, C-23), 155.3 (s, C-24), 41.7 (d, C-25), 28.2 (t, C-26), 19.8 (q, C-27), 107.1 (t, C-28), 12.0 (q, C-29). EI-MS *m/z*： 412$[M]^+$.

(25s)-26-methylene-cholest-4-en-3-one (**8**)[11] : colorless needle crystal, ^{1}H NMR (in $CDCl_3$): δ_H 5.70 (1H, s, H-4), 4.65 (2H, s, H-28), 1.16 (3H, s, H-19), 0.99 (3H, d, *J* = 6.9Hz, H-27), 0.92 (3H, d, *J* = 6.5Hz, H-21), 0.83 (3H, t, *J* = 7.4Hz, H-29), 0.70 (3H, s, H-18). ^{13}C NMR (in $CDCl_3$): 35.6 (t, C-1), 34.0 (t, C-2), 199.8 (d, C-3), 123.7 (t, C-4), 172.0 (s, C-5), 32.9 (d, C-6), 32.0 (t, C-7), 35.7 (d, C-8), 53.8 (d, C-9), 38.5 (s, C-10), 21.0 (t, C-11), 39.6 (t, C-12), 42.4 (s, C-13), 55.8 (d, C-14), 24.2 (t, C-15), 28.3 (t, C-16), 55.9 (d, C-17), 11.9 (q, C-18), 17.4 (q, C-19), 35.7 (d, C-20), 18.6 (q, C-21), 34.5 (t,C-22), 30.4 (t, C-23), 155.2 (s, C-24), 41.7 (d, C-25), 28.2 (t, C-26), 19.8 (q, C-27), 107.1 (t, C-28), 12.1 (q, C-29).