## **SUPPLEMENTARY INFORMATION FOR:**

## Stereochemical assignment and absolute abundance of non-proteinogenic amino acid homoarginine in marine sponges

Ipsita Mohanty, Samuel G. Moore, Jason S. Biggs, Christopher J. Freeman, David A. Gaul, Neha Garg, Vinayak Agarwal

SUPPLEMENTARY FIGURES



Figure S1. <sup>1</sup>H-NMR spectra for 1b in CD<sub>3</sub>OD.



Figure S2. <sup>1</sup>H-NMR for isotopic standard of 1a in  $D_2O$ .



Figure S3. Calibration curve generated for the quantification of 1a in the sponge of genus Aplysina.



Figure S4. Calibration curve generated for the quantification of 1a in the sponge of genus Aiolochroia.



Figure S5. Calibration curve generated for the quantification of 1a in the sponge of genus *Ianthella*.



Figure S6. Calibration curve generated for the quantification of 1a in the sponge of genus Stylissa.



Figure S7. Calibration curve generated for the quantification of 2 in the sponge of genus Aplysina.



Figure S8. Calibration curve generated for the quantification of 2 in the sponge of genus Aiolochroia.



Figure S9. Calibration curve generated for the quantification of 2 in the sponge of genus *Stylissa*.



Figure S10. Calibration curve generated for the quantification of 2 in the sponge of genus *Ianthella*.



**Figure S11.** Calibration curve generated for the linearity test of the analytical standard **1a**. LOD calculation is shown in the inset of the figure.



Figure S12. Calibration curve generated for the linearity test of the analytical standard 2. LOD calculation is shown in the inset of the figure.