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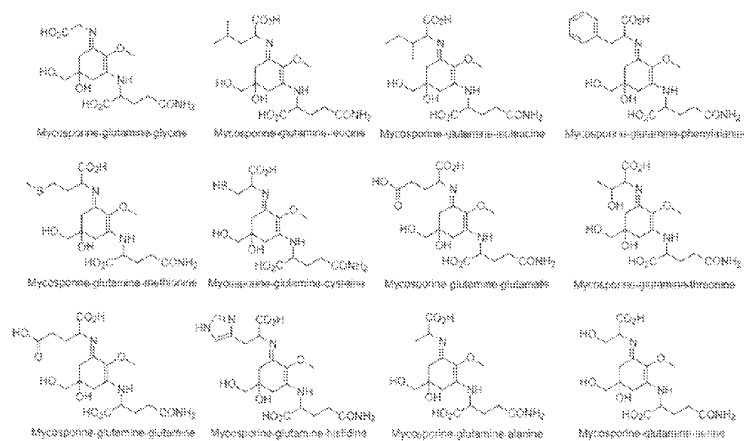


Figure 9

(57) Abstract: This disclosure concerns wild-type and engineered D-Ala-D-Ala ligases (Ddls) and their use for synthesising mycosporine-like amino acids (MAAs), such as MAAs derived from a mycosporine-glutamine backbone and MAAs with hydrophobic side groups. Also disclosed are compositions and uses of the synthesised MAAs.

[Continued on next page]

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