

Discovery of a *Manduca sexta* Allatotropin Antagonist from a *Manduca sexta* Allatotropin Receptor Homology Model

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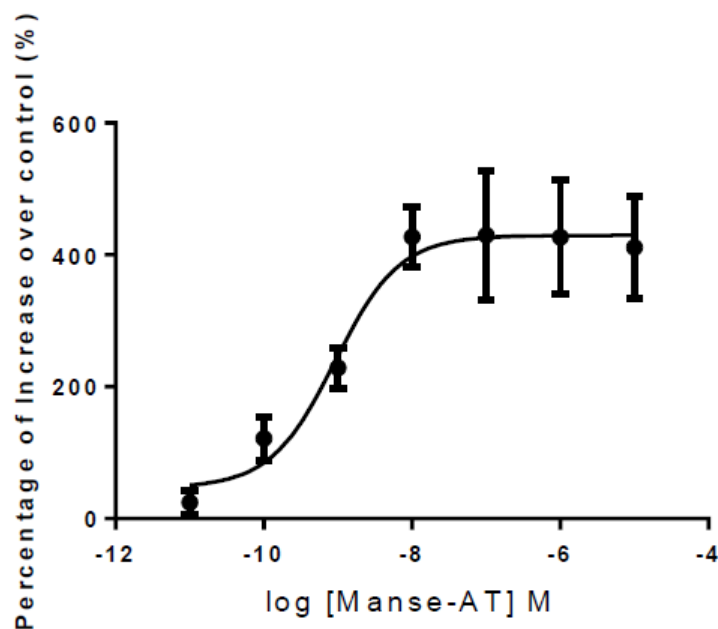


Figure S1. Dose response curves of Manse-AT on JH biosynthesis by CA from day 3 female *Manduca sexta*, in vitro.

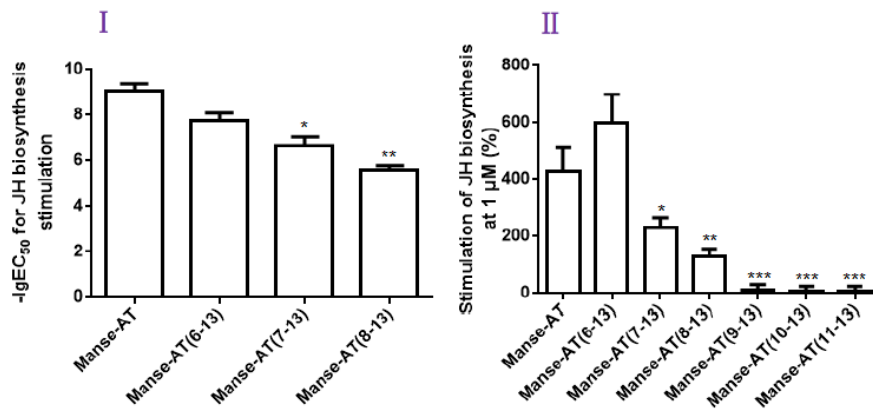


Figure S2. The $-\lg EC_{50}$ value (I) and the stimulation of JH biosynthesis at 1 μM (II) of truncated Manse-AT analogs for JH biosynthesis. Asterisks indicate significant differences between Manse-AT and analogs as determined by Dunnett's multiple comparison test following one-way ANOVA: * $0.01 < P < 0.05$; ** $0.001 < P < 0.01$; *** $P < 0.0001$.

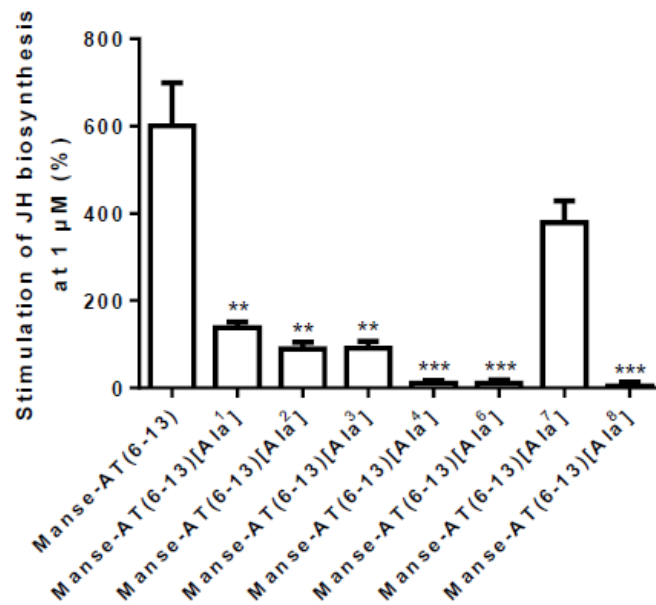


Figure S3. The stimulation of JH biosynthesis at 1 μM of alanine-replacement Manse-AT (6-13) analogs for JH biosynthesis. Asterisks indicate significant differences between Manse-AT (6-13) and analogs as determined by Dunnett's multiple comparison test following one-way ANOVA: ** $0.001 < P < 0.01$; *** $P < 0.0001$.

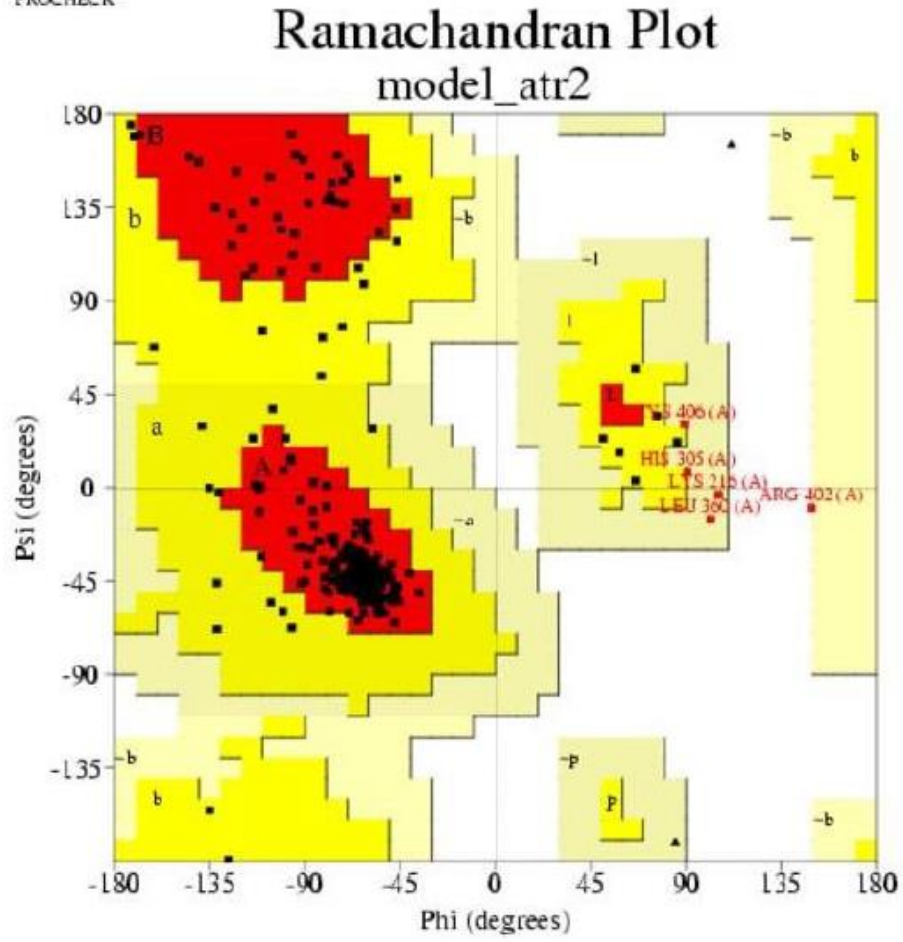


Figure S4. Ramachandran plot of the 3D model of Manse-ATR.