

Modelling the synergistic effects of toxicant mixtures

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Supplement Information

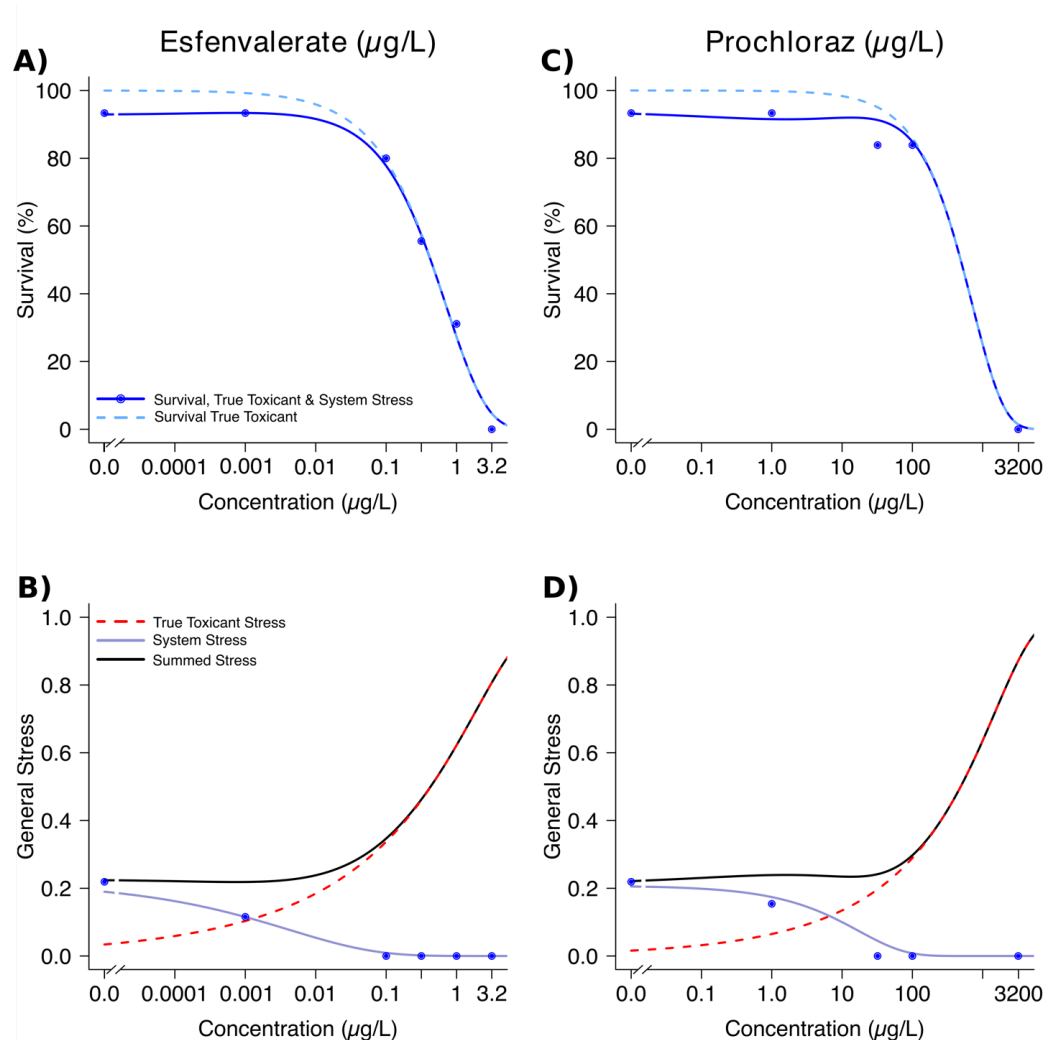


Figure S1: Single substance concentration-response. Observed and modeled survival survival- and stress-response relationships of *Daphnia magna* at high food conditions for day 21 after 24 h of esfenvalerate and prochloraz exposure. A), C) Observed mortality (dots), modeled mortality applying the EC_{x-Sys} model (line), toxicant related mortality (dashed line). B), D) Modelled toxicant-stress, system-stress, summed stress.

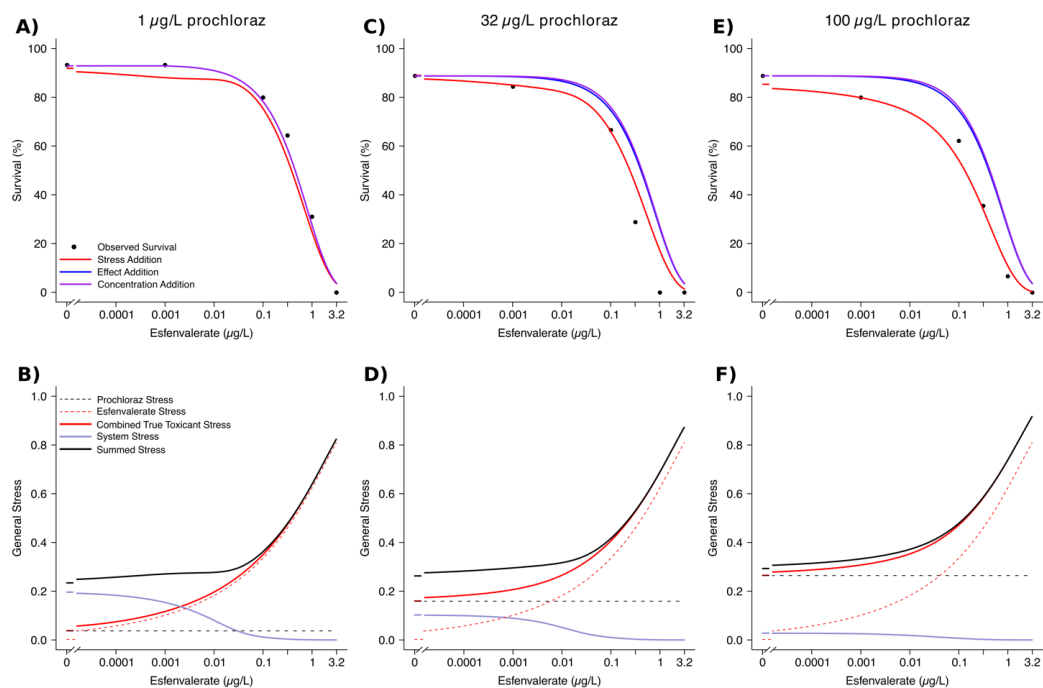


Figure S2. Combined effects of toxicants: Observed and modeled concentration-response relationships of *Daphnia magna* at high food conditions for day 21 after 24 h of esfenvalerate exposure in combination with prochloraz. A), C), E) Observed mortality (dots), modeled mortality with different approaches for combining stressors: Stress-Addition according the Multi-TOX Approach with a ratio of 38% SA, Effect- and Concentration-Addition. B), D), F) Esfenvalerate-, prochloraz stress obtained from single substance concentration response, resulting system-stress, summed stress.