A

Average Inhibtion Per Size of 60 Randomly Formed Cocktails (Generation 0; Hybrid Algorithm)

B

No. of Cocktails per Size of Cocktail

C

Average Inhibtion Per Size of 18 Randomly Formed Coctkails (Generation 0; Hill Climb)
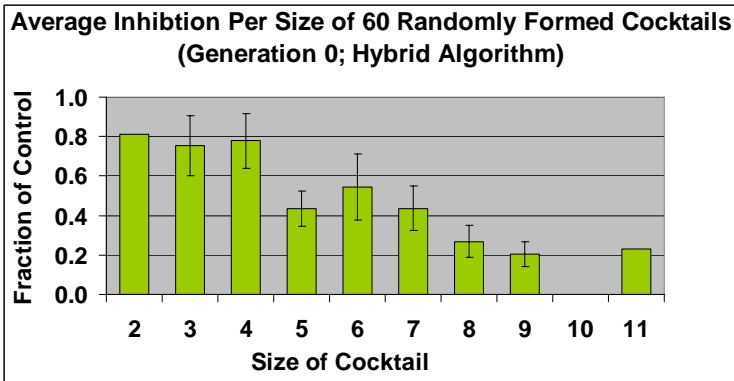
D

No. of Cocktails per Size of Cocktail
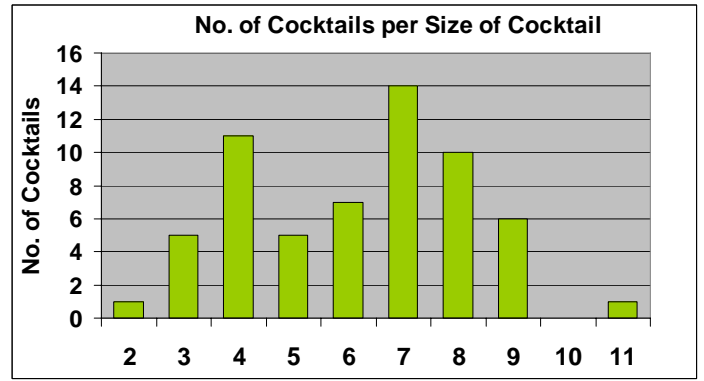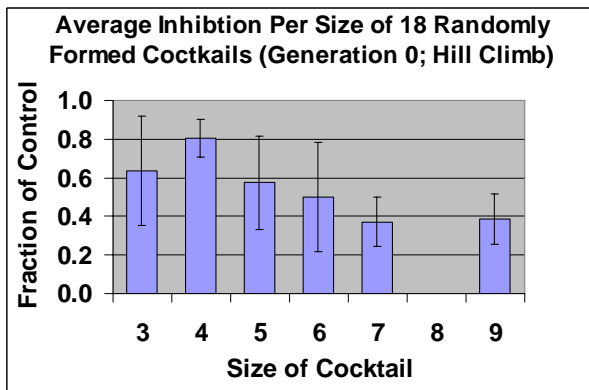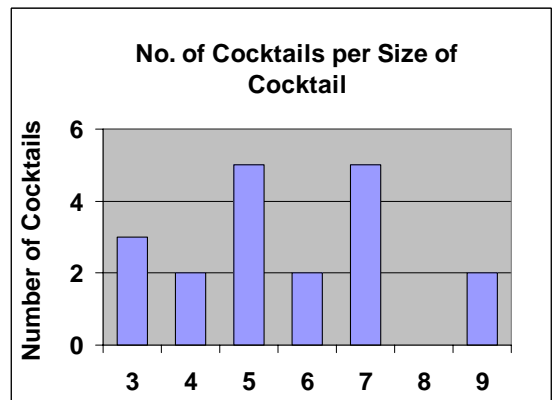
Figure S2. **A**, average inhibition per cocktail of a set of 60 randomly formed cocktails from prior experiments[1,2]. **B,** distribution of these cocktails by size. **C**, average inhibition per cocktail of 18 randomly formed cocktails form the initial generation of the hill climb. **D**, distribution of these 18 cocktails by size.