Fittness of the best organism in each population 1.8 1.2 0.6 1.5*10⁵ 6.0*10⁵ 0.0*10⁰ 3.0*10⁵ 4.5*10⁵ Generations Average fittness of the population 1.8 1.2 0.6 0.0*10⁰ 1.5*10⁵ 3.0*10⁵ 4.5*10⁵ 6.0*10⁵ Generations Size of the reaction network of the best organism in each population 507.6 256.8 1.5*10⁵ 4.5*10⁵ 0.0*10⁰ 3.0*10⁵ 6.0*10⁵ Generations Average size of the reaction network in each population 513.6 256.8 1.5*10⁵ 3.0*10⁵ 0.0*10⁰ 4.5*10⁵ 6.0*10⁵ Generations Number of reactions used in the MN of the best organism in each population 27 13.5 0 3.0*10⁵ 4.5*10⁵ 0.0*10⁰ 1.5*10⁵ 6.0*10⁵ Generations Average number of reactions used in the MN-s of the populations 24.6 12.3 0 1.5*10⁵ 3.0*10⁵ 4.5*10⁵ 6.0*10⁵ $0.0*10^{0}$ Generations Population 1 Population 2

Population 3