Figure 1

A

genome

B

C

samples

genes

measurement structure

Figure 2

A

graphical model of
gene regulatory network

phenotype
values

B

untrained

trained

Figure 3

A

{1, 2, 3}

{1, 3}, {1, 2}, {2, 3}

{1, 3}, {2, 3}   {1, 2}, {2, 3}   {1, 3}, {1, 2}

{2, 3}, {1}   {1, 3}, {2}   {1, 2}, {3}

{2, 3}   {1, 3}   {1, 2}

{2}, {3}   {3}, {1}   {2}, {1}

{3}   {2}   {1}

{}

lattice of gene regulatory
network topologies

B

constraint / modularity

gene regulatory networks   phenotypes

genotype-phenotype maps

C

Δ_7

$\Delta_3^{\otimes 3}$

$\Delta_1^{\oplus 3}$

spaces of
probability distributions

Figure 4

volume ratio (non-modular:modular)

dimension

graph

hypergraph