
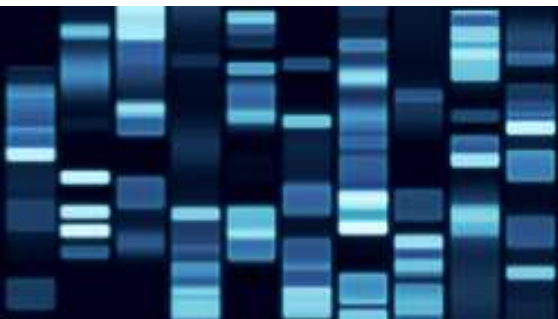
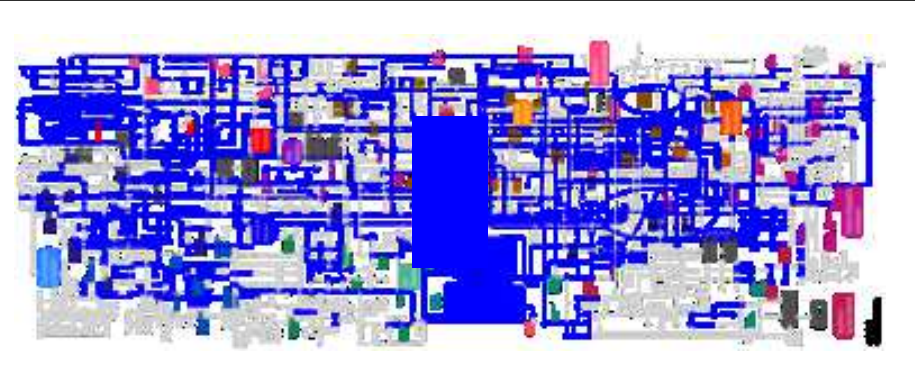

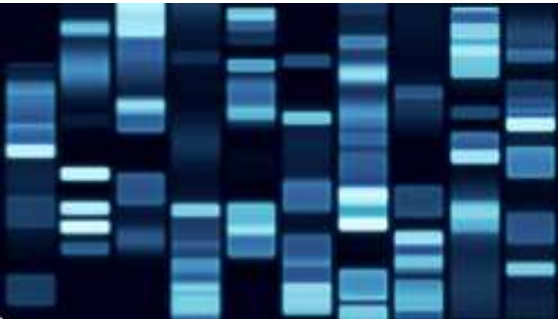
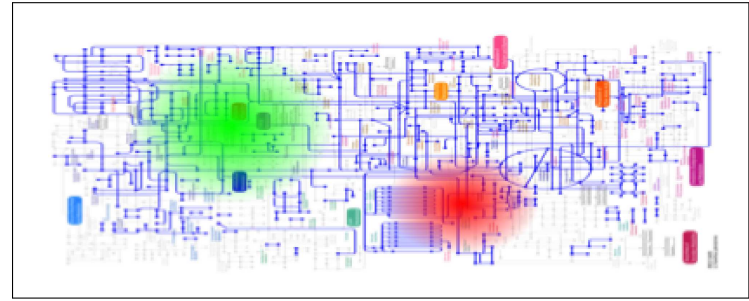


Coherent sub-networks in genome-scale metabolic models

patient	mutations	metabolic model	
			http://www.metabolicatlas.org/
			<ul style="list-style-type: none">• 917 patients• $V \sim 4000$• $E \sim 15000$

Aim Find **dense common subgraphs** in patients with specific markers
e.g. $mutbrca = 1$ and $mutp53 = 1$

Existing methods do not scale [Jiang and Pei 2009; Li et al. 2011]