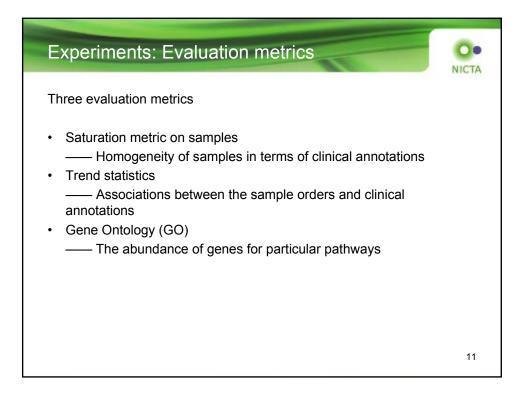
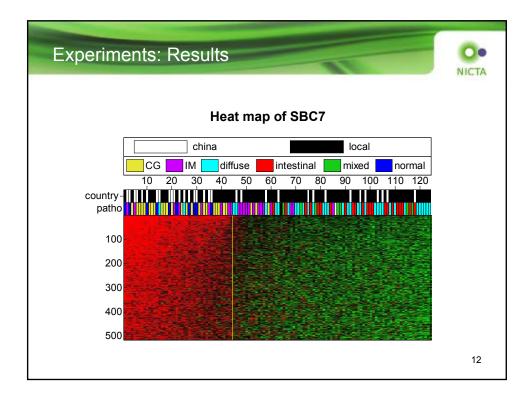
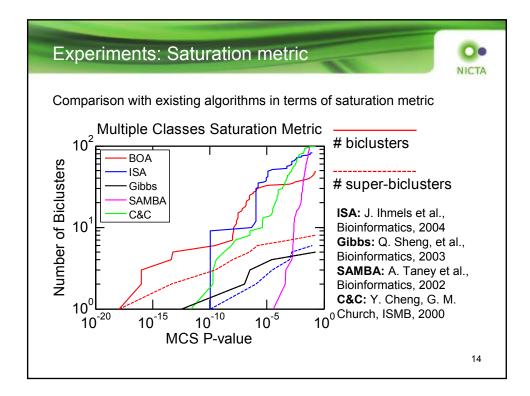


astric Cance	r dataset		
7383 genes	s, 124 samples		
6 pathologi	cal categories, and other	clinical annotation	IS
Phenotype	Subtype	Malignant score	
Pre-	Normal	* 1	
malignant	Chronic Gastritis (CG)	2	
	Intestinal Metaplasia	3	
Malignant	Biffused	4	
	Intestinal	4	
	Mixed	4	





	Experiments: Results							
		p-value			Most significant annotation			
SBC	Converge	MCS	Malignancy Score	GO	GO			
SBC1	11	9.4E-04	1.8E-13	5.1E-09	epidermis development			
SBC2	188	1.0E-08		7.1E-07	lipid metabolic process			
SBC3	2	1.5E-06	5.5E-08	3.2E-32	immune system process			
SBC4	96	1.8E-01		2.0E-53	immune system process			
SBC5	15	1.1E-18	7.7E-21	1.8E-14	cell cycle process			
SBC6	328	3.0E-07	4.9E-08	1.8E-20	multicellular organismal process			
SBC7	359	4.0E-14	-5.4E-22	3.2E-22	gen. of precursor metab. & energy			
SBC8	1	3.0E-10	-5.2E-08	2.2E-02	lipid metabolic process			
						13		



Experiments: Biological interpretation

NICTA

Compare with "Distinctive patterns of gene expression of premalignant gastric mucosa and gastric cancer", Alex Boussioutas et al., 2003, Cancer Research. SBC 1 SBC 2 SBC 3 SBC 4 SBC 5 SBC 6 SBC 7 SBC_8 Region in [Bou03] Annotation No.Genes Symbol Mitochondria В D1-D3 Proliferation Е Intestinal Intestinal F G Squamous Н Inflamation Κ Extracellular B: Encoding mitochondrial proteins (CG) D1-3: Cell proliferation (Intestinal GC) E&F: Intestinal genes (IM) H: Inflammation

K: Extra cellular matrix (Diffuse GC)

