

	Query	Query-Graph	Results	Time (s)
Q1	Find all CDS from <i>E. coli</i>		4279	< 1
Q2	Find all 'hypothetical' proteins from <i>E. coli</i> annotated with an EC number.		94	< 1
Q3	Find all orthologous genes between <i>E. coli</i> and <i>H.pylori</i> .		2301	29
Q4	Find all 'hypothetical' proteins from <i>H.pylori</i> that are orthologous to known proteins from <i>E. coli</i> .		75	3
Q5	Find all proteins from <i>H.pylori</i> and <i>E.coli</i> having similar domain(s).		719	57

	Query	Query-Graph	Results	Time (s)
Q6	Find all genes coding for known protein that are specific to <i>H.pylori</i> .	<pre> graph LR PG1[ProteinGene] -- ILO --> R1[Replicon] PG1 -- ICF --> P1[Polypeptide] R1 -- IRO --> O1[Organism] P1 -- "Name != 'hypothetical'" --> C1[] PG1 -- "neighbours(GeneOrtholog) = 0" --> C2[] </pre> <p> <i>Name != 'hypothetical'</i> <i>neighbours(GeneOrtholog) = 0</i> </p>	72	< 1
Q7	Infer protein-protein interactions from <i>H.pylori</i> into <i>E.coli</i> .	<pre> graph TD PG1[ProteinGene] -- IIG --> GO1[GeneOrtholog] PG2[ProteinGene] -- IIG --> GO2[GeneOrtholog] GO1 -- IIG --> PG2 GO2 -- IIG --> PG1 PG1 -- ILO --> R1[Replicon] PG2 -- ILO --> R2[Replicon] R1 -- IRO --> O1[Organism] R2 -- IRO --> O2[Organism] PG1 -- ICF --> P1[Polypeptide] PG2 -- ICF --> P2[Polypeptide] P1 -- HPIW --> P2 P1 -- "QualityScore='A'" --> C[] P2 -- "QualityScore='A'" --> C O1 -- "Name:: 'pylori'" --> C1[] O2 -- "Name:: 'coli'" --> C2[] </pre> <p> <i>Name:: 'pylori'</i> <i>Name:: 'coli'</i> <i>HPIW</i> <i>QualityScore='A'</i> </p>	457	12