

Phenotype	Molecule name	OMIM	INSD	IPOTERM REQUEST	Change	Location	NP0 Label	Synonym	GENE/LOCUS ASSOCIATION	OMIM or Disease	OMIM ID	KEGG PUBLICATION	Pubmed	Notes that were identified	def	New Item ID	Logical def	Current message	New to add	NP0 annotation	Annotation Notes	Current message								
Health status	15-epitopo-2-glycidyl (1,5-epitopo-2-glycidyl)	1678		Decrease of 1,5-epitopo-2-glycidyl in the serum	Decreased	serum	Decreased level of 1,5-epitopo-2-glycidyl in serum		CD38	Type 2 diabetes (Mellitus diabetes)	63261	PMC329714 PMC1269022	27270	PMID:301113 PMID:301132	OMIM:63261 OMIM:63261	An increase in the normal concentration of 1,5-epitopo-2-glycidyl in the serum. 1,5-epitopo-2-glycidyl is a metabolite of a 1,5-epitopo-2-glycidyl (1,5-epitopo-2-glycidyl) from glycemic control. This substance is derived mainly from glucose and is not dependent on the glucose level in the blood.	HP_041030	same												
in	3-hydroxy-2-methylglutaric acid	302		Increase of urinary 3-hydroxy-2-methylglutaric acid	Increased	urine	Increased level of 3-hydroxy-2-methylglutaric acid in urine		MGCL1	Methylmalonyl-CoA mutase deficiency	246400	PMID:2352328 PMID:1832776	34043	PMID:302213 PMID:302215	OMIM:246400 OMIM:246400	An increase in the level of 3-hydroxy-2-methylglutaric acid in the urine.	HP_041031	same					Add annotation to OMIM:246400							
NP0 label	phthalin	1026		Increase of serum phthalin level	Increased	serum	Increased level of phthalin in serum			Ornithine Translocase Deficiency	271900	PMID:1820195 PMID:2838836	26930 38136	OMIM:271900 OMIM:271900	An increase in the level of phthalin in the serum.	HP_041032	same						Add new term HP_041032 Increase							
	arabinofuranose and galactofuranose	1080		Increase of serum GalNAc and GalNAc 6-phosphate	Increased	serum	Increased level of arabinofuranose and galactofuranose in serum			Hemolytic anemia	106200	PMID:3011071 PMID:1331419	14837 13349	PMID:3011071 PMID:301110	OMIM:106200 OMIM:106200	An increase in the level of arabinofuranose and galactofuranose in the serum.	HP_041033	same						Add new term HP_041033 Increase						
	pyruvate	1713		Decrease level of pyruvate in the CSF	Decreased	CSF	Decreased level of pyruvate in CSF		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of pyruvate in the CSF.	HP_041034	same						Add new term HP_041034						
	D-mannose	1624		Decrease level of urinary D-mannose in the urine	Decreased	urine	Decreased level of D-mannose in urine			Bornstein's syndrome	138655	PMID:2936302	72959	PMID:3011013 PMID:3011014	OMIM:138655 OMIM:138655	An increase in the level of D-mannose in the urine.	HP_041035	same						Add new term HP_041035						
	D-threitol	4026		Increase level of D-threitol in the plasma	Increased	plasma	Increased level of D-threitol in plasma		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of D-threitol in the plasma.	HP_041036	same						Add new term HP_041036						
	D-fructose	4026		Increase level of D-fructose in the plasma	Increased	plasma	Increased level of D-fructose in plasma			Uric acid	310020	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:310020 OMIM:310020	An increase in the level of D-fructose in the plasma.	HP_041037	same						Add new term HP_041037						
	galactose	10813		Increase level of galactose in the plasma	Increased	plasma	Increased level of galactose in plasma		GALT	Galactosemia	226400	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:226400 OMIM:226400	An increase in the level of galactose in the plasma.	HP_041038	same						Add new term HP_041038						
	galactate	10813		Increase level of galactate in the plasma	Increased	plasma	Increased level of galactate in plasma																							
	galactonate	10824		Increase level of galactonate in Red Blood Cell	Increased	red blood cells	Increased level of galactonate in red blood cells		GALT	Galactosemia	226400	PMID:1468817 PMID:3053294	14837 16234	PMID:3011033 PMID:3011034	OMIM:226400 OMIM:226400	An increase in the level of galactonate in the red blood cells.	HP_041039	same							Add annotation to OMIM:226400					
	hippuric acid	14839		Increase level of hippuric acid in the blood	Increased	blood	Increased level of hippuric acid in blood			Chronic Kidney Disease	249000	PMID:2393551	34043	PMID:3011013	OMIM:249000	An increase in the level of hippuric acid in the blood.	HP_041040	same							Add new term HP_041040					
	hippuric acid	14839		Increase level of hippuric acid in the urine	Increased	urine	Increased level of hippuric acid in urine			MEG-CAUXIN DEFICIENCY (24943)	608292	PMID:2984500 PMID:2984501 PMID:2984502	34043 34043	PMID:3011013 PMID:3011014	OMIM:608292 OMIM:608292	An increase in the level of hippuric acid in the urine.	HP_041041	same												
	L-lysine	10207		Increase level of free L-lysine (removal of acetoacetyl)	Increased	urine	Increased level of L-lysine in urine			Agmatinase deficiency	244100	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:244100 OMIM:244100	An increase in the level of L-lysine in the urine.	HP_041042	same									Add new term HP_041042			
	L-glutamic acid	16816		Increase level of glutamic acid in the blood	Increased	blood	Increased level of L-glutamic acid in blood		AGCS1	L-glutaminyl synthetase deficiency	227310	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:227310 OMIM:227310	An increase in the level of L-glutamic acid in the blood.	HP_041043	same									Add new term HP_041043			
	propionic glycol	1080		Increase level of propionic glycol in blood	Increased	blood	Increased level of propionic glycol in blood		CHST8	Cheroid polyoma	216600	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:216600 OMIM:216600	An increase in the level of propionic glycol in the blood.	HP_041044	same									Add annotation to OMIM:216600			
	ribitol	1580		Increase level of ribitol in serum	Increased	urine	Increased level of ribitol in serum		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of ribitol in the urine.	HP_041045	same									Add new term HP_041045			
	ribitol	1580		Increase level of ribitol in the CSF	Increased	CSF	Increased level of ribitol in CSF																							
	ribose	3340		Increase level of ribose in CSF	Increased	CSF	Increased level of ribose in CSF		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of ribose in the CSF.	HP_041046	same									Add new term HP_041046			
	ribose	3340		Increase level of ribose in the urine	Increased	urine	Increased level of ribose in urine																							
	xylose	17131		Increase level of urinary xylose	Increased	urine	Increased level of xylose in urine		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of xylose in the urine.	HP_041047	same										Add new term HP_041047		
	xylose	17131		Increase level of xylose in CSF	Increased	CSF	Increased level of xylose in CSF																							
	L-tryptophan	19183		Increase level of urinary L-tryptophan	Increased	urine	Increased level of L-tryptophan in urine		GGT	GLUTATHIONE SYNTHETASE DEFICIENCY	269210	PMID:1468817 PMID:3053294	14837 16234	PMID:3011013 PMID:3011014	OMIM:269210 OMIM:269210	An increase in the level of L-tryptophan in the urine.	HP_041048	same										Add annotation to OMIM:269210		
	methylnicotinic acid	8943		Increase level of urinary methylnicotinic acid (4MBA)	Increased	urine	Increased level of methylnicotinic acid in urine		AGCS1	L-glutaminyl synthetase deficiency	227310	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:227310 OMIM:227310	An increase in the level of methylnicotinic acid in the urine.	HP_041049	same											Add annotation to OMIM:227310	
	methylnicotinic acid	8943		Increase level of urinary methylnicotinic acid	Increased	urine	Increased level of methylnicotinic acid in urine		RYR1	Ryanodine receptor type 1	609226	PMID:1468808 PMID:1468810	88811	PMID:3011033 PMID:3011034	OMIM:609226 OMIM:609226	An increase in the level of methylnicotinic acid in the urine.	HP_041050	same											Add annotation to OMIM:227310	
	methylnicotinic acid	8943		Increase level of urinary methylnicotinic acid	Increased	urine	Increased level of methylnicotinic acid in urine		HAGFR	HYPERMETHYLATION DEFICIENCY	216600	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:216600 OMIM:216600	An increase in the level of methylnicotinic acid in the urine.	HP_041051	same											Add annotation to OMIM:216600	
	niotinic acid	28675		Increase level of niotinic acid in the serum	Increased	serum	Increased level of niotinic acid in serum			NEURALGIC ACIDEMIA	120930	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:120930 OMIM:120930	An increase in the level of niotinic acid in the serum.	HP_041052	same												Add annotation to OMIM:120930
	N-acetylphenylenediamine	17132		Increase level of N-acetylphenylenediamine	Increased	urine	Increased level of N-acetylphenylenediamine in urine		NSD1	NEURALGIC ACIDEMIA	120930	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:120930 OMIM:120930	An increase in the level of N-acetylphenylenediamine in the urine.	HP_041053	same											Add annotation to OMIM:120930	
	N-acetylphenylenediamine	17132		Increase level of N-acetylphenylenediamine	Increased	urine	Increased level of N-acetylphenylenediamine in urine		NSD1	NEURALGIC ACIDEMIA	120930	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:120930 OMIM:120930	An increase in the level of N-acetylphenylenediamine in the urine.	HP_041054	same											Add annotation to OMIM:120930	
	D-phosphatidylcholine	13292		Increase level of phosphatidylcholine	Increased	CSF	Increased level of phosphatidylcholine in CSF		AGCS1	L-glutaminyl synthetase deficiency	227310	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:227310 OMIM:227310	An increase in the level of phosphatidylcholine in the CSF.	HP_041055	same												Add annotation to OMIM:227310
	glutamic acid	10207		Increase level of glutamic acid in the urine	Increased	urine	Increased level of glutamic acid in urine		AGCS1	L-glutaminyl synthetase deficiency	227310	PMID:1820132	88811	PMID:3011013 PMID:3011014	OMIM:227310 OMIM:227310	An increase in the level of glutamic acid in the urine.	HP_041056	same												Add annotation to OMIM:227310

JT's original title	Metabolite name	CHEBI	HWB	HP TERM REQUEST	Change	Location	HP Label	Synonym	GENE/LOUS ASSOCIATION	OMIM or Disease	OMIM ID	KEGG PUBLICATION	parent	terms that were MODIFIED	def	New term ID	Logical def	Commit message	Need to add HP0 annotation
Nicola's addition	1,5-anhydro-D-glucitol (1,5-anhydroglucitol)	18679	HMCB000172	Decrease of 1,5-anhydroglucitol level in the serum	Decreased	urine	Decreased level of 1,5-anhydroglucitol in serum	EDMR	Type 1 Diabetes (Mellitus) (diabetes)	HP_001013	222100	PMID:932714 PMID:170585	HP_001013	CHEBI:18679	A decrease in the normal concentration of 1,5-anhydroglucitol in the serum. 1,5-anhydroglucitol or 1,5-anhydroglucitol (1,5-AG) is a reduced marker of short-term glycemic control. This substance is derived mostly from fructose, not glucose, in the red blood cells, and is distributed to all organs and tissues.	HP_041050	done		Y
to do	3-hydroxy-3-methylglutamic acid	18821	HMCB000169	Increase of urinary 3-hydroxy-3-methylglutamic acid level	Increased	urine	Increased level of 3-hydroxy-3-methylglutamic acid in urine	HMGCL	HMG-CoA LYASE DEFICIENCY (Mellitus) (diabetes)	HP_001013	246450	PMID:170585 PMID:1557074	HP_000215	CHEBI:18821	An increase in the level of 3-hydroxy-3-methylglutamic acid in the urine.	HP_041051	done		Y
Signal not yet added	albumin	15676	HMCB000168	Increase of serum albumin level	Increased	serum	Increased level of albumin in serum	Chronic Renal Failure		HP_000484	MONDO:000000	PMID:1803793	HP_000484	CHEBI:15676	An increase in the level of albumin in the serum.	HP_041052	done	Added new term HP_041052	Increase y
	aminobutyric acid gamma-aminobutyric acid	10865	HMCB000112	Increase of serum GABA level	Increased	serum	Increased level of aminobutyric acid gamma-aminobutyric acid in serum	hepatic encephalopathy		HP_000312	MONDO:001011	PMID:148027	HP_000312		An increase in the level of aminobutyric acid gamma-aminobutyric acid in the serum.	HP_041053	done	Added new term HP_041053	Increase y
	aminobutyric acid gamma-aminobutyric acid	10865	HMCB000112	Decrease of serum GABA level	Decreased	serum	Decreased level of aminobutyric acid gamma-aminobutyric acid in serum	Alzheimer disease		HP_000312	MONDO:001011	PMID:1703470	HP_000312		A decrease in the level of aminobutyric acid gamma-aminobutyric acid in the serum.	HP_041054	done	Added new term HP_041054	Decrease y
	erythritol	17113	HMCB000126	Decrease level of urinary erythritol level in the CSF	Decreased	urine	Decreased level of erythritol in cerebrospinal fluid	RPA	BRICK SHOGUNATE OVERWHELMING SYNDROME	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:17113	A decrease in the level of erythritol in the cerebrospinal fluid.	HP_041055	done	Added new term HP_041055	Y
	D-mannose	19254	HMCB000130	Decrease level of urinary mannose level	Decreased	urine	Decreased level of D-mannose in urine	Barth's syndrome		HP_001013	105650	PMID:2009562	HP_001013	CHEBI:19254	A decrease in the level of D-mannose in the urine.	HP_041056	done	Added logical def for HP_041056	Y
	D-threitol	48300	HMCB000132	Increase level of threitol in the plasma	Increased	plasma	Increased level of D-threitol in plasma	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:48300	An increase in the level of D-threitol in the plasma.	HP_041057	done	Added logical def for HP_041057	Y
	D-threitol	48300	HMCB000132	Increase level of threitol in CSF	Increased	urine	Increased level of D-threitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:48300	An increase in the level of D-threitol in the cerebrospinal fluid.	HP_041058	done	Added logical def for HP_041058	Y
	D-threitol	48300	HMCB000132	Increase level of threitol in CSF	Increased	urine	Increased level of D-threitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:48300	An increase in the level of D-threitol in the cerebrospinal fluid.	HP_041059	done	Added logical def for HP_041059	Y
	galactitol	18613	HMCB000101	Increase level of galactitol in the plasma	Increased	plasma	Increased level of galactitol in plasma	GALT	Galactosemia	HP_001013	233400	PMID:1002932 PMID:3071960	HP_001013	CHEBI:18613	An increase in the level of galactitol in the plasma.	HP_041061	done	Added new term HP_041061	Y
	galactitol	18613	HMCB000101	Increase level of galactitol in CSF	Increased	urine	Increased level of galactitol in cerebrospinal fluid	GALT	Galactosemia	HP_001013	233400	PMID:1002932 PMID:3071960	HP_001013	CHEBI:18613	An increase in the level of galactitol in the cerebrospinal fluid.	HP_041062	done	Added new term HP_041062	Y
	galactonate	18524	HMCB000129	Increase level of galactonate in Red Blood Cell	Increased	red blood cells	Increased level of galactonate in red blood cells	GALT	Galactosemia	HP_001013	233400	PMID:1480073	HP_000454	CHEBI:18524	An increase in the level of galactonate in the red blood cells.	HP_041063	done	Added logical def for HP_041063	Y
	galactitol	18613	HMCB000101	Increase level of galactitol in red blood cells	Increased	red blood cells	Increased level of galactitol in red blood cells	GALT	Galactosemia	HP_001013	233400	PMID:1480073	HP_001013	CHEBI:18613	An increase in the level of galactitol in the red blood cells.	HP_041064	done	Added logical def for HP_041064	Y
	hippuric acid	19088	HMCB000174	Increase level of hippuric acid in the blood	Increased	blood	Increased level of hippuric acid in blood	Chronic Kidney Disease		HP_000454	MONDO:000000	PMID:2202621	HP_000454	CHEBI:19088	An increase in the level of hippuric acid in the blood.	HP_041065	done	Added logical def for HP_041065	Y
	hippuric acid	19088	HMCB000174	Increase level of hippuric acid in the urine	Increased	urine	Increased level of hippuric acid in urine	HMG-CoA LYASE DEFICIENCY (diabetes)		HP_000454	346450	PMID:170585	HP_000454	CHEBI:19088	An increase in the level of hippuric acid in the urine.	HP_041066	done	Added logical def for HP_041066	Y
	hippuric acid	19088	HMCB000174	Increase level of hippuric acid in the urine	Increased	urine	Increased level of hippuric acid in urine	HMG-CoA LYASE DEFICIENCY (diabetes)		HP_000454	346450	PMID:170585	HP_000454	CHEBI:19088	An increase in the level of hippuric acid in the urine.	HP_041066	done	Added logical def for HP_041066	Y
	L-fucose	16287	HMCB000174	Increase level of fucose in the urine	Increased	urine	Increased level of L-fucose in urine	Phenylketonuria		HP_000454	68054	MONDO:0004741	HP_000454	CHEBI:16287	An increase in the level of L-fucose in the urine.	HP_041067	done	Added logical def for HP_041067	Y
	L-glutamic acid	18619	HMCB000148	Increase level of glutamic acid in the blood	Increased	blood	Increased level of L-glutamic acid in blood	N-Acetylglutamate synthetase deficiency (diabetes)		HP_001013	237370	PMID:702444	HP_001013	CHEBI:18619	An increase in the level of L-glutamic acid in the blood.	HP_041068	done	Added new term HP_041068	Y
	propylene glycol	18897	HMCB000181	Increase level of propylene glycol in blood	Increased	blood	Increased level of propylene glycol in blood	Criticism		HP_001013	215600	PMID:3420140	HP_001013	CHEBI:18897	An increase in the level of propylene glycol in the blood.	HP_041069	done	Added logical def for HP_041069	Y
	ribitol	15634	HMCB000028	Increase level of ribitol in CSF	Increased	urine	Increased level of ribitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:15634	An increase in the level of ribitol in the cerebrospinal fluid.	HP_041070	done	Added new term HP_041070	Y
	ribitol	15634	HMCB000028	Increase level of ribitol in CSF	Increased	urine	Increased level of ribitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:15634	An increase in the level of ribitol in the cerebrospinal fluid.	HP_041071	done	Added logical def for HP_041071	Y
	ribose	25942	HMCB000283	Increase level of ribose in CSF	Increased	urine	Increased level of ribose in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:25942	An increase in the level of ribose in the cerebrospinal fluid.	HP_041072	done	Added new term HP_041072	Y
	ribose	25942	HMCB000283	Increase level of ribose in CSF	Increased	urine	Increased level of ribose in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:25942	An increase in the level of ribose in the cerebrospinal fluid.	HP_041073	done	Added new term HP_041073	Y
	xybitol	17151	HMCB000297	Increase level of xybitol in CSF	Increased	urine	Increased level of xybitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:17151	An increase in the level of xybitol in the cerebrospinal fluid.	HP_041075	done	Added new term HP_041075	Y
	xybitol	17151	HMCB000297	Increase level of xybitol in CSF	Increased	urine	Increased level of xybitol in cerebrospinal fluid	RPA	Ribose 5-Phosphate Isomerase Deficiency	HP_001013	688611	PMID:1486888	HP_001013	CHEBI:17151	An increase in the level of xybitol in the cerebrospinal fluid.	HP_041075	done	Added new term HP_041075	Y
Red term	L-pyrogutamic acid	18183	HMCB000267	Increase level of urinary L-pyrogutamic acid	Increased	urine	Increased level of L-pyrogutamic acid in urine	GSS	GLUTATHIONE SYNTHETASE DEFICIENCY	HP_001013	288130	PMID:4587197	HP_001013		An increase in the level of L-pyrogutamic acid in the urine.	HP_041076	done	Added new term HP_041076	Y
	L-pyrogutamic acid	18183	HMCB000267	Increase level of urinary L-pyrogutamic acid	Increased	urine	Increased level of L-pyrogutamic acid in urine	OPLAH	5-OXOPROLINE DEFICIENCY	HP_001013	280205	PMID:1006443	HP_001013		An increase in the level of L-pyrogutamic acid in the urine.	HP_041076	done	Added new term HP_041076	Y