Dimensions 05-10-12 Update

Jeremy Frank

Analysis of Metabolomics Data

- Anca saw some initial interesting data from VCID5945 PMs
 - Daniel and I are following up on it
- Metabolomics

Purine convers	sions	1	7 Fumarate (cpc	1	Adenine (cpd0	1	L	Adenosine (cp	1	XAN (cpd0030	-1	D-Ribose (cpd00105)-1
?	Purine nucleoside phosphorylase (EC 2.4-	-	5 Uracil (cpd000	-1	Nicotinamide (1	L	Adenine (cpd0	1	Adenosine (cp	1 XAN (cpd0030	-1
	Inosine-uridine preferring nucleoside hy-	-	4 Adenosine (cp	1	D-Ribose (cpd	-1	L	Adenine (cpd0	1	XAN (cpd0030	-1	

Analysis of VCID 5945

Purine conversions	1	7 Fumarate (cpc	1	Adenine (cpd0	1	Adenosine (cp	1	XAN (cpd0030	-1	D-Ribose (cpd00105)-1
? Purine nucleoside phosphorylase (EC 2.4	-	5 Uracil (cpd000	-1	Nicotinamide (1	Adenine (cpd0	1	Adenosine (cp	1 XAN (cpd00	30 -1
Inosine-uridine preferring nucleoside hy-	-	4 Adenosine (cp	1	D-Ribose (cpd	-1	Adenine (cpd0	1	XAN (cpd0030	-1	

PYRIMIDINE METABOLISM Pentose phosphate pathway 3.6.1.8 O UDP-glucose (extracellular) β-Alanine metabolism 1.3.1.14 Orotidine-5P 1.3.98.1 2.4.2.10 Dihydroorotate 1.3.5.2 Pseudouridine 5'-phosphate (extracellular) O ■ 3.1.4.16 ─ 2.7.1.83 ├─ ○ Pseudouridine Carbamoyl-P 2.7.4.14 2.4.2.3 ► O ← 3.5.2.2 → O 3-Ureido-**↑** Uridine 3.2.2.3 1.3. .2 propionate ▲|UDP | 2.7.4.22 UMP 3.1.3.5 Dihydrouracil 6.3.5.5 3.6.1.5 3.6.1.6 2.4.2.9 3.5.1.6 3.5.4.13 3.6.1.39 3.6.1.5 3.6.1.8 O CTP 3.5.4.5 3.6.1.19 L-Glutamine Arginine and 3.5.4.1 6.3.4.2 proline metabolsim 🔾 β-Alanine 2.7.4.14 CM 7.4.6 1.1799.4 ▲Cytosine Cytidine 🖣 2',3'-Cyclic 3. CMP 3.1.4.16 → O Alanine, aspartate and β-Alanine metabolism Thioredoxin 3.1.3.6 O Barbiturate 2'-Deoxy-5-hydroxy methylcytidine-5'-triphosphate 5-Hydroxymethyl-3.5.2.1 1.8.1.9 1.8.1.9 1.17.4.1 1.17.4.2 -0◆ 2'-Deoxy-5-hydroxy-Thioredoxin Q 3-Oxo-3-ureidopropanoate Thioredoxin Thioredoxin_ methylcytidinedisulfide <u>disulfi</u>de 3.5.1.95 3.1.3.5 → ODeoxycytidine 1.8.1.9 1.17.4.2 dCDP 3.5.4.5 3.5.4.14 3.5.4.30 Malonate Thioredoxin 3.5.4.13 3.6.1.19 2.4.2.23 3.6.1.23 Valine, leucine and 2.4.2.1 2.4.2.4 isoleucine metabolism 2.7.4.4 2.7.1.21 3.6.1.39 2.7.49 Deoxyuridine Thioredoxin disulfide 5-Methylcytosine O 6 3-Amino-1.8.1.9 1.17.4.1 2.1.1.45 2.1.1.148 -o-Thioredoxin OUDP 3.5.1.6 Thymidine 2.42.4 3-Ureidoisobutyrate 11799.4 2-Deoxy-D-nbose-1PO 3.6.1.39

Analysis of VCID5946

Metabolomics of VCID5946 was similar

Inosine-uridine preferring nucleoside ! -	5 Adenosine (cp	1	D-Ribose (cpd	-1	Adenine (cpd0	1	Xanthosine (cr	-1	(AN (cpd0030	-1
Purine nucleoside phosphorylase (EC 1-	5 Nicotinamide (1	Adenine (cpd0	1	Adenosine (cp	1	Xanthosine (c	-1 XAN (cpd0030	-1	

Analysis of VCID5946

