

**Table S2.****PCA analysis of SEED Subsystems level 1 (Meyer *et al.*, 2008).****Correlation of each variable with factor 1**

	<b>Correlation</b>	<b>P-value</b>
<b>Cluster system</b>	0.99922	2.95E-42
<b>Cofactors and pigments</b>	0.997675	2.18E-35
<b>Miscellaneous</b>	0.997555	4.52E-35
<b>Amino acids</b>	0.997344	1.50E-34
<b>Carbohydrates</b>	0.996973	9.97E-34
<b>Protein metabolism</b>	0.996624	4.83E-33
<b>Cell division</b>	0.995114	1.02E-30
<b>Cell wall</b>	0.995105	1.05E-30
<b>Lipids</b>	0.99492	1.79E-30
<b>Nucleotides</b>	0.994764	2.77E-30
<b>DNA metabolism</b>	0.994473	6.06E-30
<b>RNA metabolism</b>	0.994238	1.11E-29
<b>Respiration</b>	0.993927	2.37E-29
<b>Stress response</b>	0.993802	3.18E-29
<b>Transport</b>	0.993616	4.88E-29
<b>Sulfur</b>	0.992958	2.02E-28
<b>Aromatic</b>	0.992208	8.69E-28
<b>Nitrogen</b>	0.991532	2.89E-27
<b>Secondary metabolism</b>	0.990146	2.58E-26
<b>Virulence</b>	0.987861	5.24E-25
<b>Cell signaling</b>	0.987054	1.33E-24
<b>Spore</b>	0.980752	4.00E-22
<b>Motility</b>	0.97793	2.86E-21
<b>Potassium</b>	0.977141	4.73E-21
<b>Phosphorus</b>	0.97681	5.82E-21
<b>Phages</b>	0.969652	2.75E-19
<b>Iron</b>	0.969093	3.57E-19
<b>Photosynthesis</b>	0.927324	6.60E-14