

Suppl. Table 1. Comparison of RAST gene distribution in selected *Rhodobacterales* genomes.

	DSM 2351	2.4.1	alga05	ALG1	AH01	PD 1222
Cofactors, Vitamins, Pigments	8.32%	8.32%	10.06%	10.23%	8.40%	10.07%
Cell Wall and Capsule	4.23%	3.19%	3.72%	4.20%	2.65%	3.47%
Virulence, Disease and Defense	2.22%	2.31%	2.03%	1.76%	1.91%	2.26%
Potassium metabolism	0.74%	0.65%	0.63%	0.52%	0.46%	0.30%
Photosynthesis	0.46%	0.50%	0.28%	0.20%	0.00%	0.00%
Miscellaneous	1.45%	1.30%	1.75%	1.92%	1.48%	1.98%
Phages, Prophages, Plasmids	1.48%	1.43%	1.30%	0.84%	0.88%	0.92%
Membrane Transport	8.57%	7.96%	7.78%	6.83%	7.55%	7.09%
Iron acquisition and metabolism	1.90%	0.62%	1.02%	0.16%	1.27%	1.79%
RNA Metabolism	4.72%	4.36%	4.59%	5.24%	4.80%	3.92%
Nucleosides and Nuc- leotides	3.77%	3.90%	3.96%	4.08%	3.63%	3.32%
Protein Metabolism	7.51%	8.29%	7.47%	8.43%	7.02%	6.13%
Cell Division and Cell Cycle	1.06%	0.94%	7.47%	1.08%	0.95%	0.87%
Motility and Chemo- taxis	1.94%	3.67%	1.54%	1.84%	2.61%	0.40%
Regulation and Cell signaling	1.69%	1.89%	1.44%	1.24%	1.80%	2.06%
Secondary Metabol- ism	0.14%	0.13%	0.14%	0.16%	0.14%	0.15%
DNA Metabolism	4.19%	3.35%	2.80%	3.64%	3.14%	2.36%
Fatty Acids, Lipids, Isoprenoids	5.60%	4.45%	5.29%	5.48%	4.55%	4.76%
Nitrogen Metabolism	1.34%	1.07%	1.96%	1.40%	1.41%	2.36%
Dormancy and Sporu- lation	0.00%	0.07%	0.04%	0.04%	0.07%	0.02%
Respiration	3.84%	6.57%	5.26%	5.12%	4.73%	4.17%
Stress Response	4.27%	4.13%	4.35%	4.48%	5.01%	4.54%
Metabolism of Aro- matic Compounds	0.63%	0.68%	1.93%	2.00%	1.52%	2.46%
Amino Acids and De- rivates	14.80%	13.85%	14.48%	14.67%	13.90%	16.10%
Sulfur Metabolism	0.81%	0.72%	1.19%	1.28%	1.38%	1.86%
Phosphorus Metabol- ism	1.23%	1.27%	1.23%	1.36%	1.20%	1.56%
Carbohydrates	13.08%	14.89%	12.83%	12.03%	17.54%	15.10%