



Codes for pathways (<http://www.ncbi.nlm.nih.gov/cgi-bin/COG/palox?sys=all>):

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|------------------------|------------------------|----------------------------|---------------------|---------------------|
| 1. AMINOACYL-tRNA SYN. | 12. ENTNER-DOUD. PATH. | 23. LEUC. BIOS. | 34. PROLINE BIOS. | 45. TRANSL. FACTORS |
| 2. ARCHAEAL. H+-ATPase | 13. F0F1-TYPE ATP SYN. | 24. LIPID BIOS. | 35. PUR. BIOS. | 46. THIAM. BIOS. |
| 3. ARG. BIOS. | 14. FAD BIOS. | 25. MENAQ. BIOS. | 36. PUR. SALVAGE | 47. THREON BIOS. |
| 4. BASAL REPL. | 15. FATTY ACID BIOS. | 26. METH. BIOS. | 37. PYRIDOX. BIOS. | 48. THYMID. BIOS. |
| 5. BASAL TF. | 16. FLAGELLUM | 27. M-S NA+/H+ ANTIPORTER | 38. PYR. BIOS. | 49. TRANSCR. REG. |
| 6. BIOTIN BIOS. | 17. GLUCONEOGENESIS | 28. NA+ TRANSPORTING NADH | 39. PYR. SALVAGE | 50. TRYPT. BIOS. |
| 7. COBAL BIOS. | 18. GLYCOLYSIS | 29. NAD. BIOS. | 40. PYRUVATE DEC. | 51. UBIQ. BIOS. |
| 8. COENZYME BIOS. | 19. GLYOXYLATE BYPASS | 30. NADH SUBUNITS | 41. RIBOFL_BIOS | 52. VALINE BIOS. |
| 9. DEOXYXYL PATHWAY | 20. HEME BIOS. | 31. PENTOSE PHOSPHATE | 42. RIB. PROT. L.S. | |
| 10. DNA POLIII SUB | 21. HIST. BIOS. | 32. PHE- YR BIOS. | 43. RIB. PROT. S.S. | |
| 11. DNA-DEP. RNA POL. | 22. ISOL. BIOS. | 33. PREPROTEIN TRANSLOCASE | 44. TCA CYCLE | |

Figure 5. Correlations between the percent of correctly predicted pathway (X) and its information content (Y) for different methods.