Additional file 2 – Comparison of Reaction Molecular Signature and Enzyme Commission reaction partition

- \circ *a* is the number of reaction pairs that are in the same set in EC and in the same set in RMS = **73408**
- *b* is the number of reaction pairs that are in different sets in EC and in different sets in RMS = **10142098**
- *c* is the number of reaction pairs that are in the same set in EC and in different sets in RMS = **9946**
- o d is the number of reaction pairs that are in different sets in EC and in the same set in RMS = 232984

Rand Index = $\frac{a+b}{a+b+c+d} = \frac{73408+10142098}{73408+10142098+9946+232984} = 0.976$