

		Similarity search	Supervised classification	Tree-based methods
Sequences	Minimal required length	~100 bp	~100 bp	~400 bp
	Sensitivity to the region	+	+	++
Database	Sensitivity to the size	++	+++	+
	Sensitivity to the defined taxonomy	++	+++	-
	Training	no	yes	no
Processing needs	Time	++	+	+++
	Ressources	+	+	+++
Measure of relatedness	Taxonomy	E-values ; Similarity The consensus taxonomy of top hits	Scores of confidence The user defined score threshold	Position on the phylogeny LCA
	Description of clades	no	no	yes

Table S1 : Comparison of the different approaches of taxonomic assignment