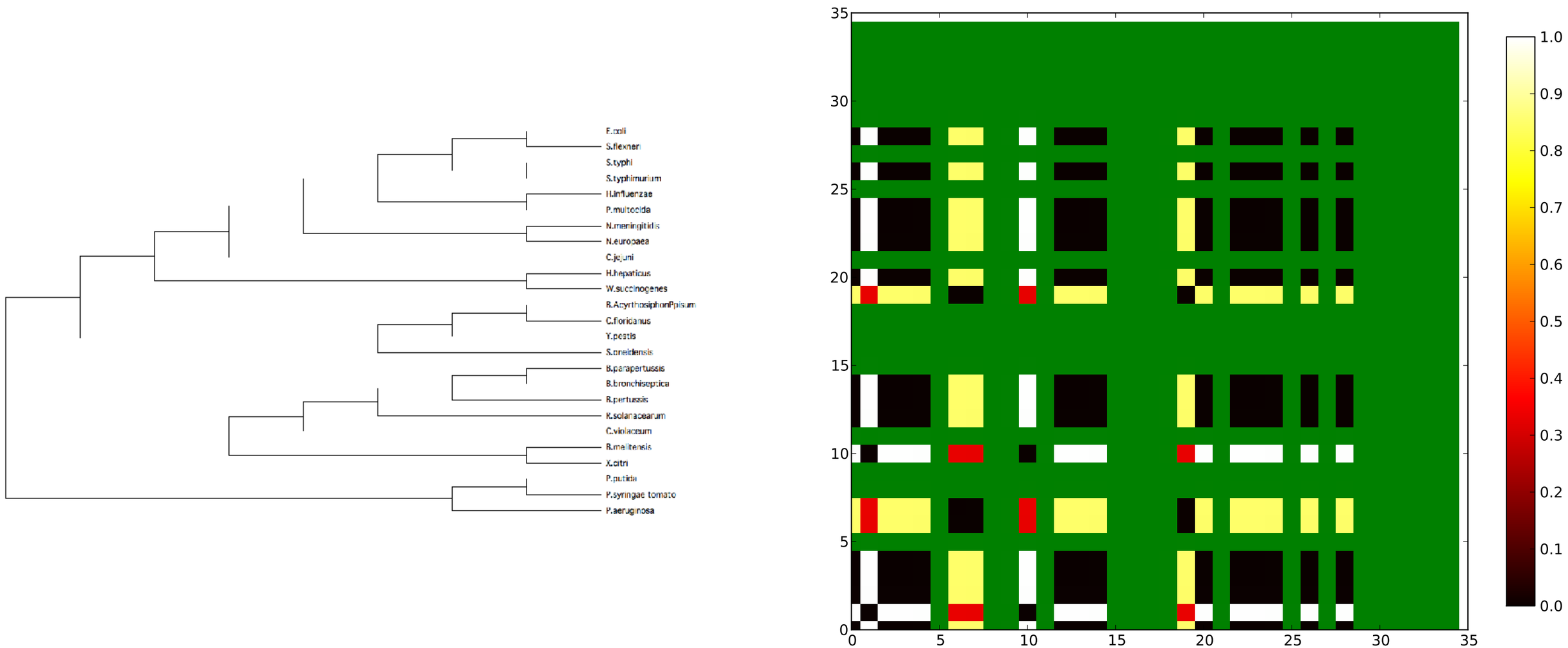astCADBE_splits