Note: some generic words about how the projects presented in this thesis are large scale exploratory works that have also the objective to direct future targeted investigations. Targeted both in the sense of topic (specific questions that my projects have opened up; e.g. TAFA in urochordates... (an example for each chapter).. ) but also in a methodological sense (can be approached with specific experimental approaches – since they are expensive and time consuming it is good to have this type of exploratory large scale bioinformatics works first).