

***Clytia* Methods and Resources** (From <https://hal.archives-ouvertes.fr/hal-03346217>)

<b>A. METHODS</b>			
<b>Method</b>	<b>References - first citation and updated methods</b>	<b>Target life cycle stage</b>	<b>Application</b>
Animal culture	Lechable et al. 2020	Whole life cycle	Planula, polyp and medusa culture
Morpholino antisense oligo	Momose and Houliston 2007; Amiel et al. 2009	Oocyte to planula	Loss of function
mRNA microinjection	Momose and Houliston 2007; Amiel et al. 2009	Oocyte to planula	Gain of function, protein localization
CRISPR/Cas9 gene KO	Momose et al., 2018; Quiroga Artigas et al. 2018, 2020	Whole life cycle	Loss of function
Transgenesis	Weissbourd et al., 2021	Whole life cycle	Gain of function
Cell type specific ablation	Weissbourd et al., 2021	Whole life cycle	Specific elimination of cells
Pharmacological treatments (NB target specificity is not guaranteed)	Momose and Houliston 2007; Amiel et al. 2009; Sinigaglia et al. 2020	Whole life cycle	Loss- or Gain-of-function
In situ hybridization	Chevalier et al. 2006; Sinigaglia et al., 2018	Whole life cycle	Visualizing gene expression patterns
Immuno/phalloidin staining	Denker et al. 2008b; Fourrage et al; 2010, Sinigaglia et al. 2020	Whole life cycle	Visualizing protein localization
Electron microscopy	Roosen-Runge, 1962, Thomas et al 1987; Carré & Carré, 2000; Kraus et al. 2020	Whole life cycle	Ultrastructural descriptions of cell types and tissue organisation.
Medusa dissection/grafting	Kamran et al. 2017; Sinigaglia et al. 2020	Medusa	Regeneration experiments
DIC microscopy for live imaging	Malamy and Shribak 2018	Medusa	Live imaging of epithelial cells
<b>B. <i>In silico</i> Resources</b>			
<b>Description</b>	<b>References</b>	<b>Database</b>	<b>Details</b>
Whole genome sequence	Leclère et al. 2019	<a href="http://marimba.obs-vlfr.fr">marimba.obs-vlfr.fr</a> NCBI/EBI	Improved genome assembly (N50 > 1Mb)
Genome browser	Leclère et al. 2019	<a href="http://marimba.obs-vlfr.fr">marimba.obs-vlfr.fr</a> <a href="http://ensembl.org">ensembl.org</a>	Marimba combines genomic and gene expression data
Transcriptome assembly	Lapebie et al. 2014; Quiroga Artigas et al. 2018; Leclère et al. 2019	<a href="http://marimba.obs-vlfr.fr">marimba.obs-vlfr.fr</a> NCBI/EBI	Genome-guided transcriptome available
Expression profiling (RNAseq)	Lapebie et al. 2014; Quiroga Artigas et al. 2018; Condamine et al. 2019; Leclère et al. 2019, Sinigaglia et al. 2020.	NCBI/EBI	Wnt-manipulated Gastrulae; Ovary tissues; Tentacle bulb regions; Life-cycle stages; Regenerating manubrium time course
Expressed Sequence Tags (EST)	Chevalier et al. 2006; Foret et al. 2010	NCBI/EBI	Mixed stages libraries
Single cell RNA seq: Data and analysis pipelines	Chari et al. 2021	<a href="https://github.com/pachterlab/CWGFLHGCCHAP_2021">github.com/pachterlab/CWGFLHGCCHAP_2021</a>	Cell types from adult female jellyfish, control and starved
Ontology terms for anatomy and developmental stages	Manuscript in preparation	<a href="http://www.ebi.ac.uk/ols/ontologies/clyh">www.ebi.ac.uk/ols/ontologies/clyh</a>	Reviewed by the OBO Foundry