

# Philippe GANOT

## **Scientific background**

20012 - Post-doc in Genomic ; group of Dr. Sylvie Tambutté ; Centre Scientifique de Monaco (Monaco).

Coral calcification in the reef-building Coral *Stylophora pistillata*. Genome and transcriptome assembly, annotation and analysis of the mediteranean Red Coral *Corallium rubrum*.

2007-2011 Post-doc in Transcriptomic ; group of Prof. Paola Furla ; UPMC/CNRS, Université de Nice Sophia Antipolis (France).

Response to environmental stress leading to bleaching in the endosymbiotic sea anemone *Anemonia viridis*. Assembly and functional annotation of *A. viridis* EST dataset, microarray analysis of stress induced bleaching. Characterization of *A.v.* MITE transposons and their post-transcriptional editing.

1999-2006 Post-doc in Cell Biology ; group of Dr. Eric Thompson ; Sars International Centre for Marine Biology\_ EMBL partner (Bergen, Norway).

Development of *Oikopleura dioica* (Urochordata) as emerging marine model organism. Characterization of: i) novel cellular “coenocystic” oogenesis, ii) somatic growth by mosaic polyploidisation, and iii) post-transcriptional processing of polycistronic pre-mRNAs (operon) by SL RNA *trans*-splicing.

1994-1998 Ph.D. thesis in Molecular Biology ; group of Dr. Tamas Kiss ; Laboratoire de Biologie Moléculaire Eucaryote, University Toulouse III (France).

Structural and functional characterization of the novel family of small nucleolar RNAs: “H/ACA snoRNAs guide site-specific pseudo-uridine formation of ribosomal and spliceosomal RNAs.”

## **Major scientific interests**

Biomineralization; Cell cycle, oogenesis; Post-transcriptional RNA processing; Genomic and Evolution ; Genetic responses to environmental changes.

## **Technical skills**

Biological models: Corals *Corallium rubrum*, *Stylophora pistillata* ; Sea anemone *Anemonia viridis* ; Appendicularian *Oikopleura dioica* ; transformed cell culture, yeast *Saccharomyces cerevisiae*.

Cytology: Confocal (Leica) and Transmission electron (Jeol) microscopes.

Molecular Biology: state of the art RNA work, DNA, proteins. Microarray. Microdissection.

Bioinformatic : Unix/Windows : from Illumina sequencing to phylogenetic and expression.

## **Supervising and teaching experience**

2013-2016; Ph.D. co-supervisor of C. Le Goff in S. Tambutté’s group (Université Paris VI).

2015; supervisor of the Master II degree of G. YOULLEC (Université Paris VI).

2007-2009; Co-supervisor of the post-doc A. Moya in P. Furla’s group.

1999-2002; supervisor of the Master degree of B. Karlsen (University of Bergen, Norway).

1997-1998; Professor assistant at the University Toulouse III.

## **Others**

Born in Odder (Danemark) ; French Nationality ; married, three children

Languages: French, English, Danish