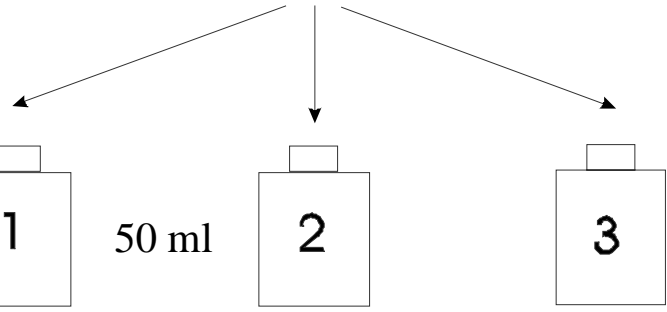


# Picoplanktonic cultures from Blanes

**Cultures, cultures, Cultures, Cultures, Cultures, Cultures.....**



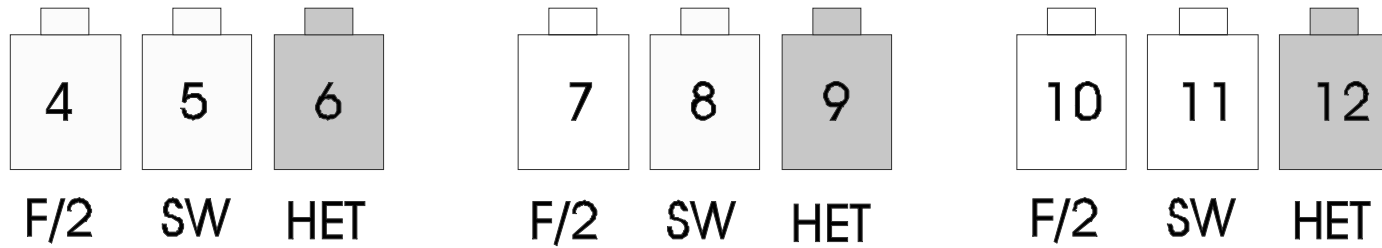
# Natural sample



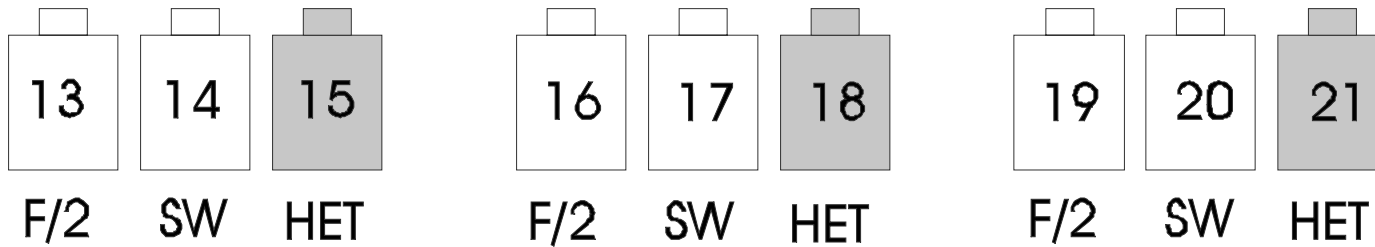
T = 0

< 0.6 < 1.0 < 3.0

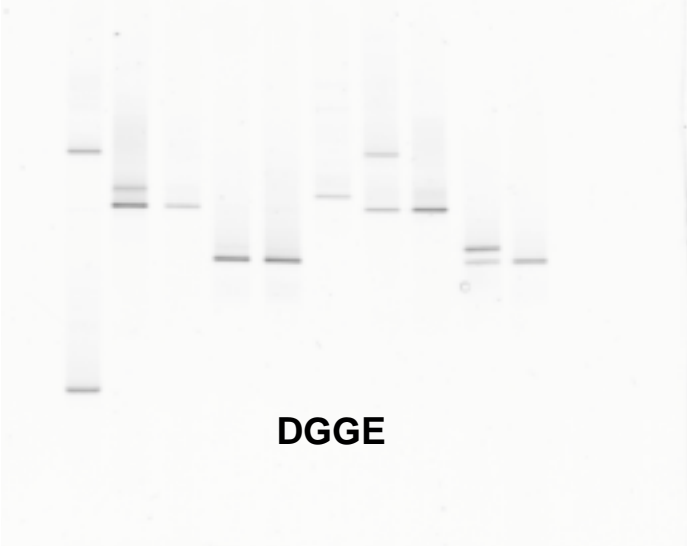
1/10 dilution



T = 2 weeks



etc..



DGGE

**Autotrophes**

Screening: Flow cytometer, DGGE, RFLP

**Heterotrophes**

screening: DGGE, RFLP, FISH (NS3, NS4)

Numer	Nom	Abbreviati	profonde	prefiltration	mediu	date	Verification de juin 2001		22/06/01	clonation resultats 29/07/01
	21 Septembre 2000									
1	Bianes costa	BLA1	25 m	0,6	PO	21/09/00	Eliminer le 8/05/01			Eliminer
2	Bianes costa	BLA1	25 m	3	PO	21/09/00	Pavova?	cloning		Pavova?
3	Bianes mar	BLA2	200 m	0,6	PO	21/09/00	X		Syn	Proc
4	Bianes mar	BLA2	200 m	3	PO	21/09/00	Eliminer le 8/05/01			Eliminer
5	Flacon 1	BLA1	25 m	0,6	F/2	21/09/00	Eliminer le 8/05/01			Eliminer
6	Flacon 2	BLA1	25 m	3	F/2	21/09/00	Pavova?	DL	Pavlova?	mélange
7	Flacon 3	BLA2	200 m	0,6	F/2	21/09/00	Eliminer le 8/05/01			Eliminer
8	Flacon 4	BLA2	200 m	3	F/2	21/09/00	Eliminer le 8/05/01			Eliminer
9	Flacon 1	BLA1	25 m	0,6	SW	21/09/00	Souche perdue le 18/12/00			Perdue
10	Flacon 2	BLA1	25 m	3	SW	21/09/00	syn et euk, peu concentre		Syn	Proc
11	Flacon 3	BLA2	200 m	0,6	SW	21/09/00	Eliminer le 8/05/01			Eliminer
12	Flacon 4	BLA2	200 m	3	SW	21/09/00	Pavlova?			Pavlova?
13	Flacon 1	BLA1	25 m	0,6	HET	21/09/00				Het
14	Flacon 2	BLA1	25 m	3	HET	21/09/00				Het
15	Flacon 3	BLA2	200 m	0,6	HET	21/09/00				Het
16	Flacon 4	BLA2	200 m	3	HET	21/09/00				Het

eliminate

lost

Send to Warwick

162	flacon 150	09/07/01	surf	<3.0	F/2					
163	flacon 148	09/07/01	surf	<0.6	SW					
164	flacon 149	09/07/01	surf	<1.0	SW					
165	flacon 150	09/07/01	surf	<3.0	SW					
166	flacon 148	09/07/01	surf	<0.6	HET					
167	flacon 149	09/07/01	surf	<1.0	HET					
168	flacon 150	09/07/01	surf	<3.0	HET					
169	flacon 148	26/07/01	surf	<0.6	F/2					
170	flacon 149	26/07/01	surf	<1.0	F/2					
171	flacon 150	26/07/01	surf	<3.0	F/2					
172	flacon 148	26/07/01	surf	<0.6	SW					
173	flacon 149	26/07/01	surf	<1.0	SW					
174	flacon 150	26/07/01	surf	<3.0	SW					
175	flacon 148	26/07/01	surf	<0.6	HET					
176	flacon 149	26/07/01	surf	<1.0	HET					
177	flacon 150	26/07/01	surf	<3.0	HET					

Last one: BLA211

**Selection of 98 strains that have been send to Roscoff**

**33 heterotrophes (10 characterized by SSU rDNA partial sequences)**

**35 autotrophes (25 characterized by SSU rDNA partial sequences)**

**30 *Synechococcus* (3 characterized)**

Numero Roscoff	Date entered catalog	Strain	Class	Genus
434	17/10/01	BL_122	Prasinophyceae	Micromonas
435	17/10/01	BL_33-3	Chlorarachniophyceae	coccoid
436	17/10/01	BL_77	Prasino+diatomées	Diatoms+ flagellés
437	17/10/01	BL_20/5	Pavlophyceae	flagellate
438	17/10/01	BL_39	Eustigmatophyceae	Nannochloropsis
439	17/10/01	BL_49/5	Cryptophyceae	flagellate
440	17/10/01	BL_83	Bicosoecid	flagellate
441	17/10/01	BL_146	Pavlophyceae	coccoid
515	14/05/02	BL_107	Cyanophyceae	Synechococcus
516	14/05/02	BL_108	Cyanophyceae	Synechococcus
517	14/05/02	BL_155	Cyanophyceae	Synechococcus
411	27/07/01	BL_17/4	Cyanophyceae	Synechococcus
412	27/07/01	BL_10	Cyanophyceae	Synechococcus
496	18/04/02	BL_76	Prasinophyceae	Bathycoccus
497	18/04/02	BL_105-7	Prasinophyceae	Micromonas
498	18/04/02	BL_74-8	Prasinophyceae	Micromonas
499	18/04/02	BL_78-7	Prasinophyceae	Nephroselmis
500	18/04/02	BL_148-9	Prasinophyceae	Tetraselmis ?
501	18/04/02	BL_82-7	Prasinophyceae	coccoid
502	18/04/02	BL_173-6	Prymnesiophyceae	Emiliana
503	18/04/02	BL_149-10	Unknow n	coccoid
504	18/04/02	BL_120-7	Eustigmatophyceae	Nannochloropsis
505	18/04/02	BL_43-5	Dictyochophyceae	flagellate
506	18/04/02	BL_150	Cryptophyceae	Proteomonas
508	14/05/02	BL_36	Cyanophyceae	Synechococcus
509	14/05/02	BL_38	Cyanophyceae	Synechococcus
510	14/05/02	BL_38-7	Cyanophyceae	Synechococcus
511	14/05/02	BL_48	Cyanophyceae	Synechococcus
512	14/05/02	BL_59-8	Cyanophyceae	Synechococcus
513	14/05/02	BL_103	Cyanophyceae	Synechococcus
514	14/05/02	BL_104	Cyanophyceae	Synechococcus

Heterotrophes, milieu enrichi en riz, 19-20 degres			
BL_62	Euglenozoa	Bodonid	21/12/00, Blanes
BL_65	Chrysophyte	Picophagus	21/12/00, Blanes
BL_85	bicosoecid	Caecitellus	28/02/01, Barcelona Harbour
BL_53	bicosoecid	?	21/12/00, Blanes
BL_168	stramenopiles	?	25/06/01, Blanes
BL_52	stramenopiles	?	21/12/00, Blanes
BL_75	mixed culture	Paraphysomonas+Caecitellus	28/02/01, Barcelona Harbour
BL_126	Cryptophyte	Chroomonas	20/03/01, Blanes
BL_81A	Ciliates	Colpodea	28/02/01, Barcelona Harbour
→	BL_42		21/12/00, Blanes
→	BL_57		21/12/00, Blanes
→	BL_63		21/12/00, Blanes
	BL_71		28/02/01, Barcelona Harbour
	BL_79A		28/02/01, Barcelona Harbour
	BL_86		28/02/01, Barcelona Harbour
	BL_25		21/09/00, Blanes
→	BL_66		21/12/00, Blanes
	BL_34-4		21/09/00, Blanes
→	BL_54		21/12/00, Blanes
→	BL_56		21/12/00, Blanes
	BL_200		14/01/02, Blanes
	BL_201		14/01/02, Blanes
	BL_202		14/01/02, Blanes
	BL_203		14/01/02, Blanes
	BL_204		14/01/02, Blanes
	BL_205		14/01/02, Blanes
	BL_208		14/01/02, Blanes
	BL_209		14/01/02, Blanes
Heterotrophes, yeast extract (0.5 gr/L), 19-20 degres			
	BL_206		14/01/02, Blanes
	BL_207		14/01/02, Blanes
	BL_210		14/01/02, Blanes
	BL_211		14/01/02, Blanes

NS3  
NS4

## Bodonids

BL\_62

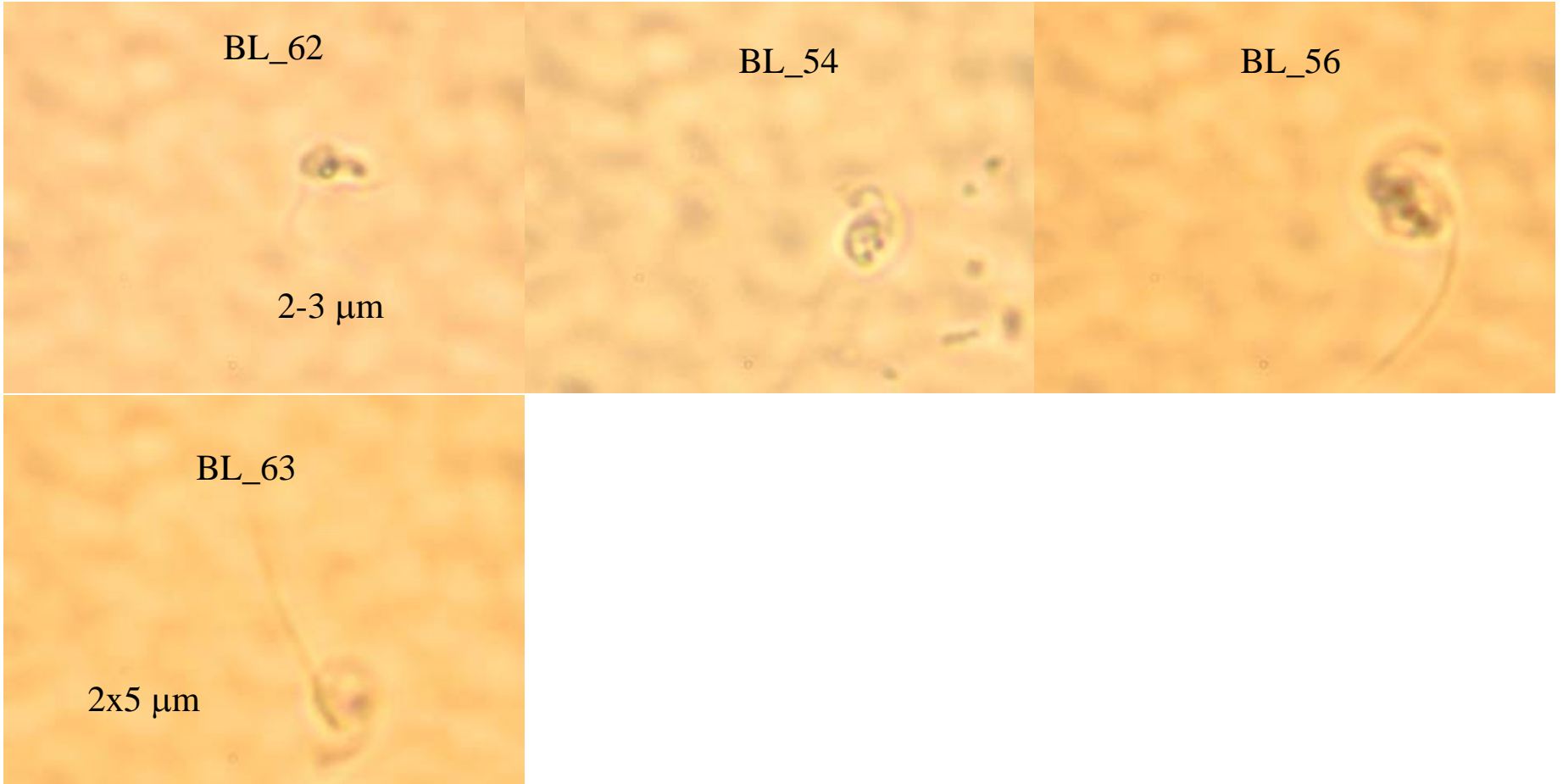
2-3  $\mu\text{m}$

BL\_54

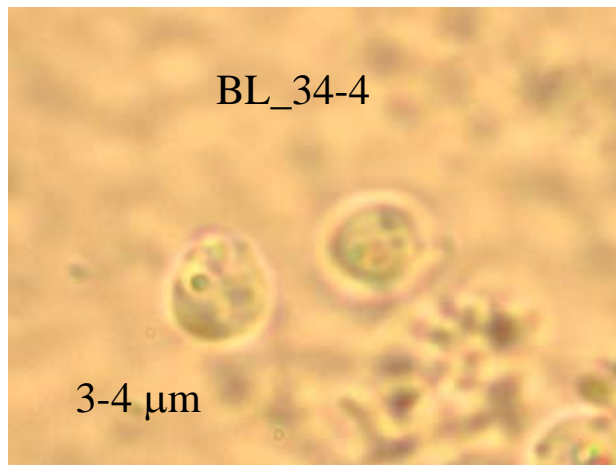
BL\_56

BL\_63

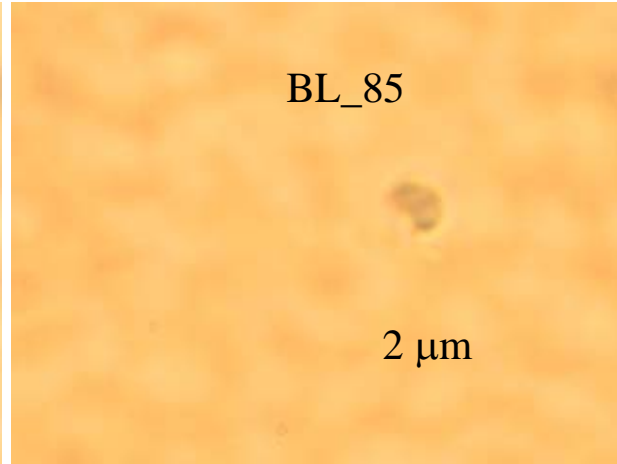
2x5  $\mu\text{m}$



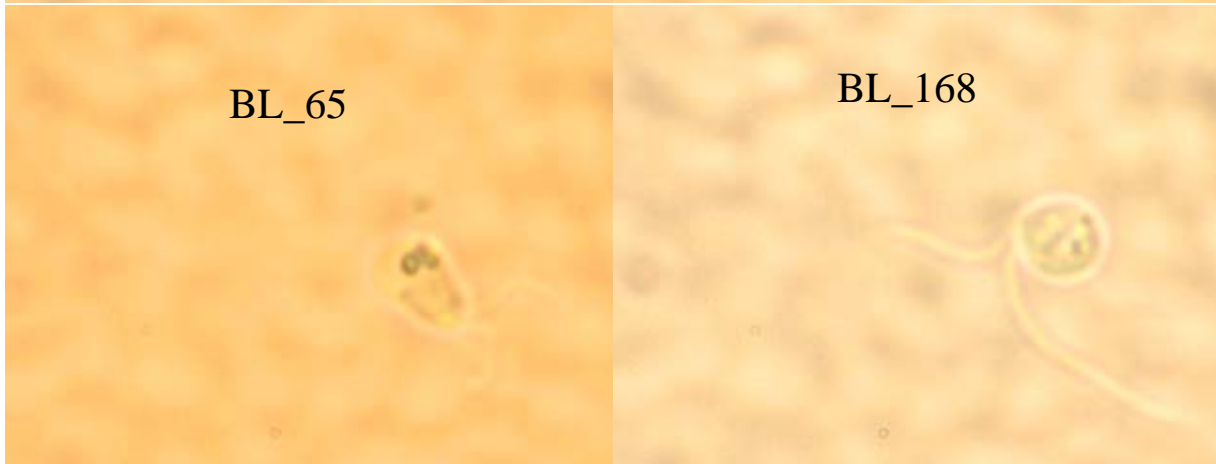
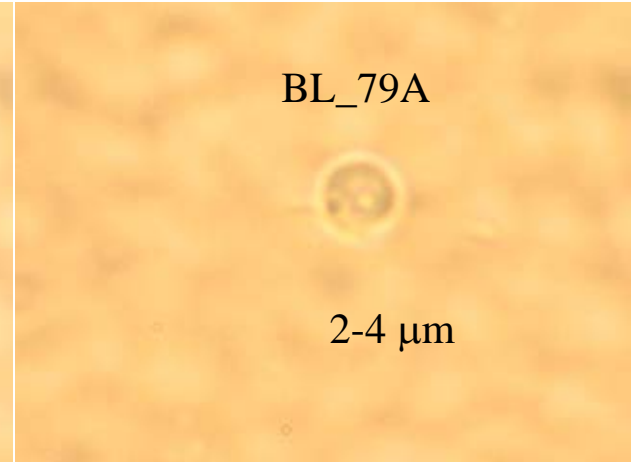
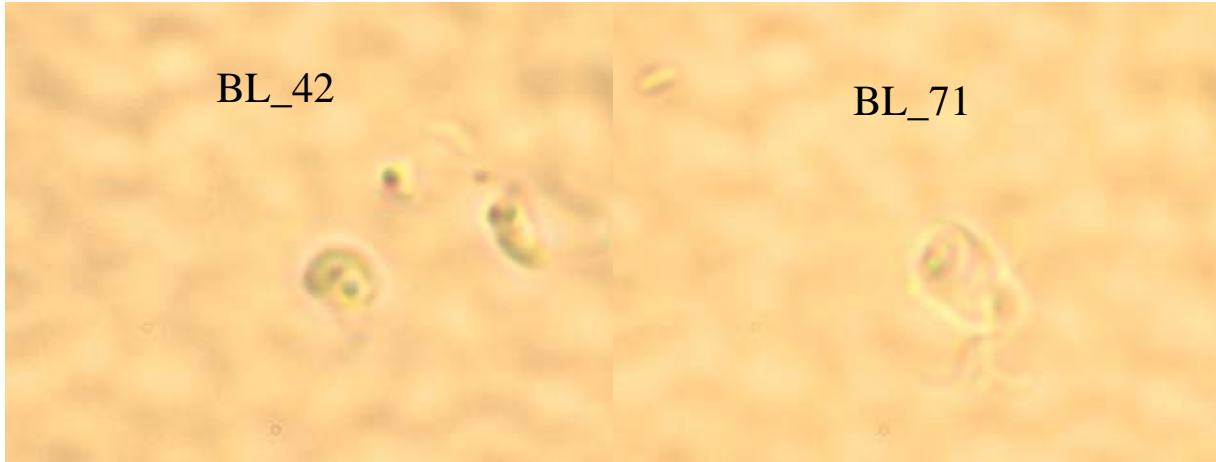
Attached, aggregated...



Stramenopiles....



Other flagellates....



## **In term of publications...**

### **Publication for which a draft exists**

- Guillou Laure, Eikrem Wenche, Chrétiennot-Dinet Marie-Josèphe, Le Gall Florence, Massana Ramon, Romari Khadidja, Pedros-Aliò Carlos, and Vaultot Daniel. Diversity of marine picoplanktonic Prasinophyceae assessed by direct SSU rDNA gene sequences from novel cultivated isolates originated from oceanic and coastal marine samples.
- Mikel et al. Pigment suites and taxonomic groups in Prasinophyceae

### **Others?**

- Massana et al. Clone libraries?
- Wenche et al. Description of a new order?