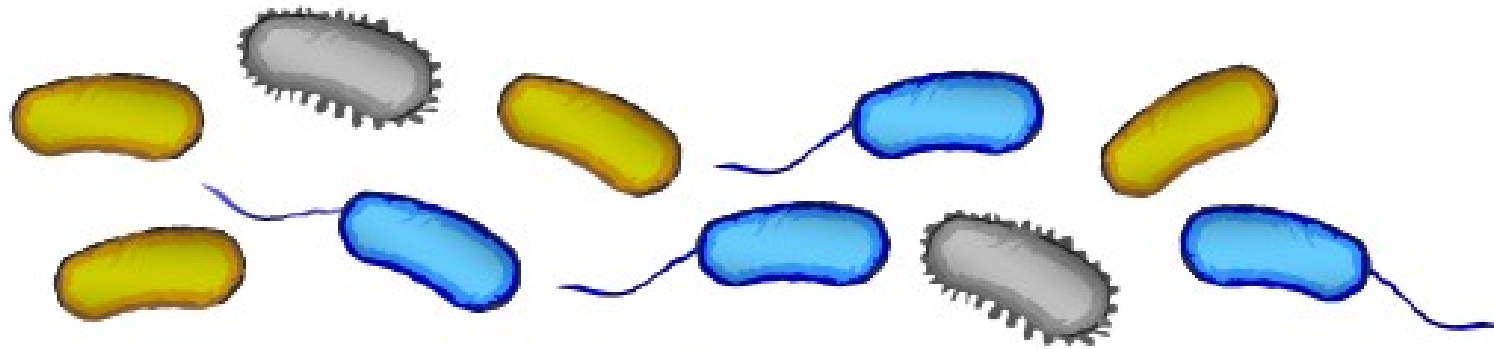


ADAPT/ADAPTdb

A resource for ARISA

- Problems with T-RFLP?
- Problems with 16S sequencing?
- Problems with metagenomics

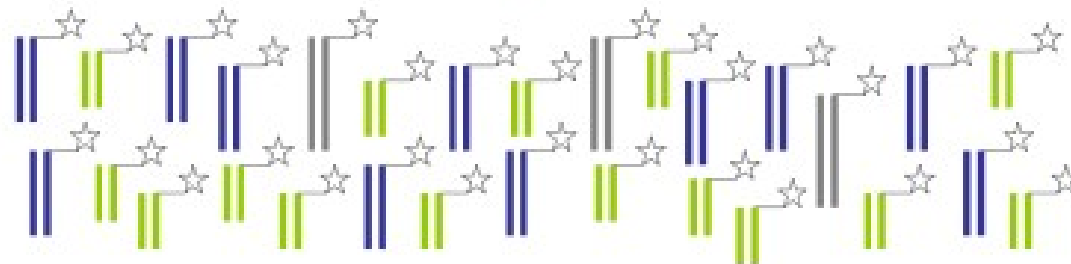
Can ARISA help?



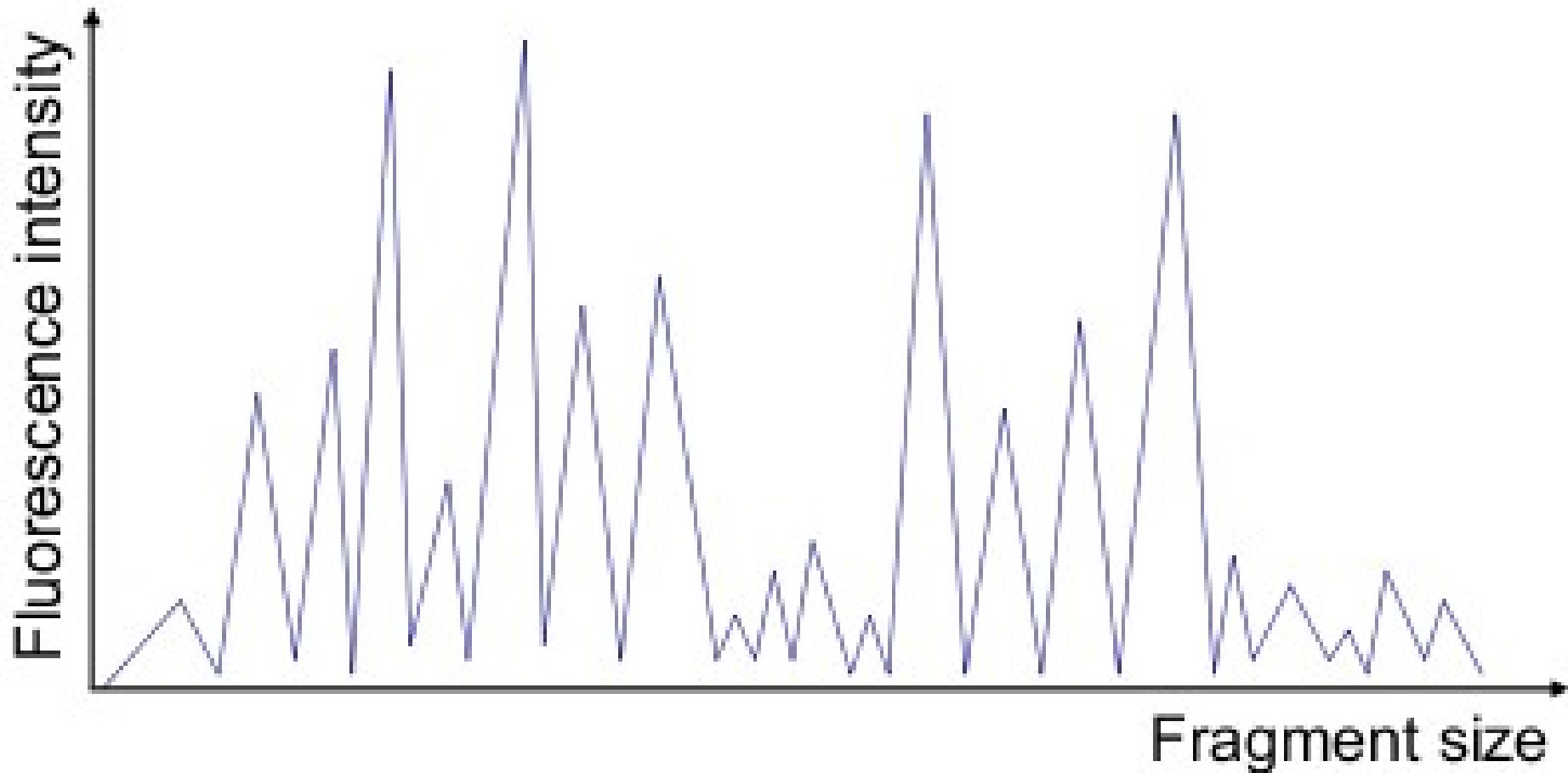
Isolate DNA from environmental sample



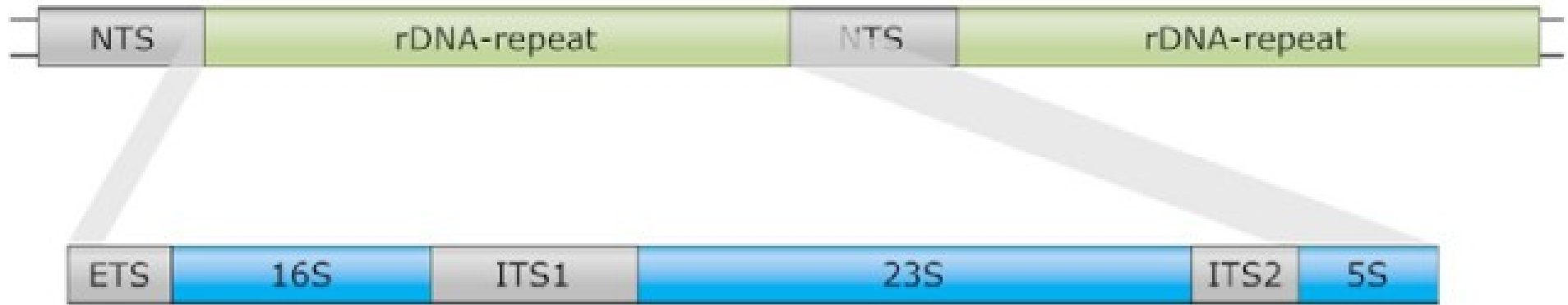
Amplify ITS regions using PCR with fluorescently labeled primers



Still uses a sequencing machine!



Fragment length depends on ITS



Does everyone have an ITS?

Phylum	# Organisms	# ITS regions	ITS / organism
Crenarchaeota	21 (0.92%)	69 (1.46%)	3.29
Euryarchaeota	43 (1.89%)	46 (0.97%)	1.07
Actinobacteria	452 (19.83%)	628 (13.30%)	1.39
Bacteroidetes	33 (1.45%)	75 (1.59%)	2.27
Chlamydiae	55 (2.41%)	71 (1.50%)	1.29
Cyanobacteria	173 (7.59%)	223 (4.72%)	1.29
Firmicutes	569 (24.97%)	1467 (31.07%)	2.58
Fusobacteria	38 (1.67%)	46 (0.97%)	1.21
Proteobacteria	853 (37.43%)	2020 (42.79%)	2.37
Rare Bacterial spp.	42 (1.84%)	76 (1.63%)	1.81
Total	2279	4721	2.07

ADAPT v1.0 Program

ARISA Data Analysis program for Pathogenics and Trophic comparison

Home • Program • Database • Help • Contact

Input data

show help

select .conf files with ARISA data

File

File name tips

ARISA_110807.txt

Delete

ARISA_200807.txt

Delete

Length threshold

show help

use only values with fragment length >

Length binning

show help

Fragment length >

< 600

< 900

> 900

Peak-height cutoff

show help

cutoff calculation

average (normal)

average (quadratic heights)

average (cubic heights)

min. cutoff value:

Reset

Submit

ADAPT v1.0 Results

ARISA Data Analysis program for Pathogenics and Trophic comparison

Home • Program • Database • Help • Contact

Input parameters

show

Database hits table

show

Database hits chart

show

Trophic phylum hit table

show

Hit table

show

Dependent types method: Trophic % table

hide

Export format: csv xml pdf

Save

Show: detailed abbreviated

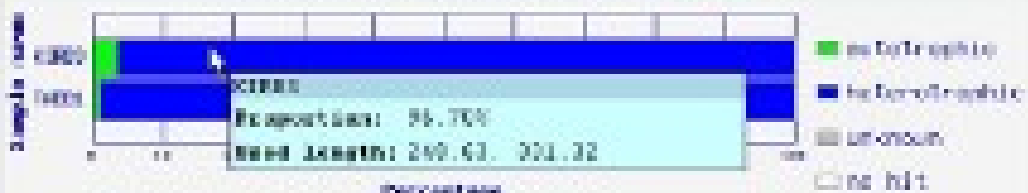
Sample names	Autotrophic	Heterotrophic	Unknown	No hit
10807	9.50 %	96.70 %	0.00 %	0.00 %
20081	0.00 %	20.01 %	0.00 %	0.00 %

Dependent types method: Trophic %-chart

hide

Image format: png jpg gif

Save



Dependent types method: Pathogenic % table

show

Dependent types method: Pathogenic %-chart

show

Independent types method: Trophic ratio table

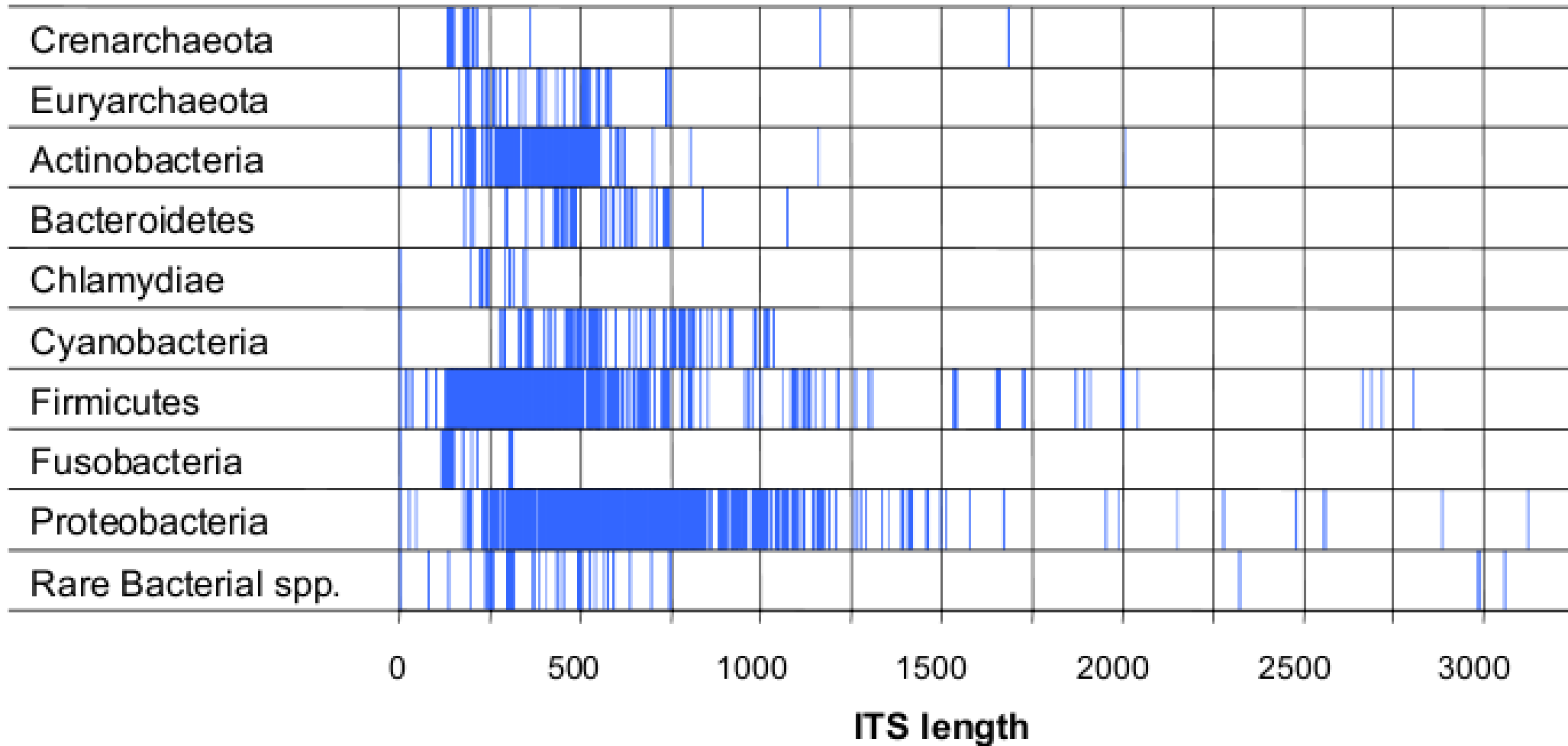
show

Independent types method: Trophic ratio chart

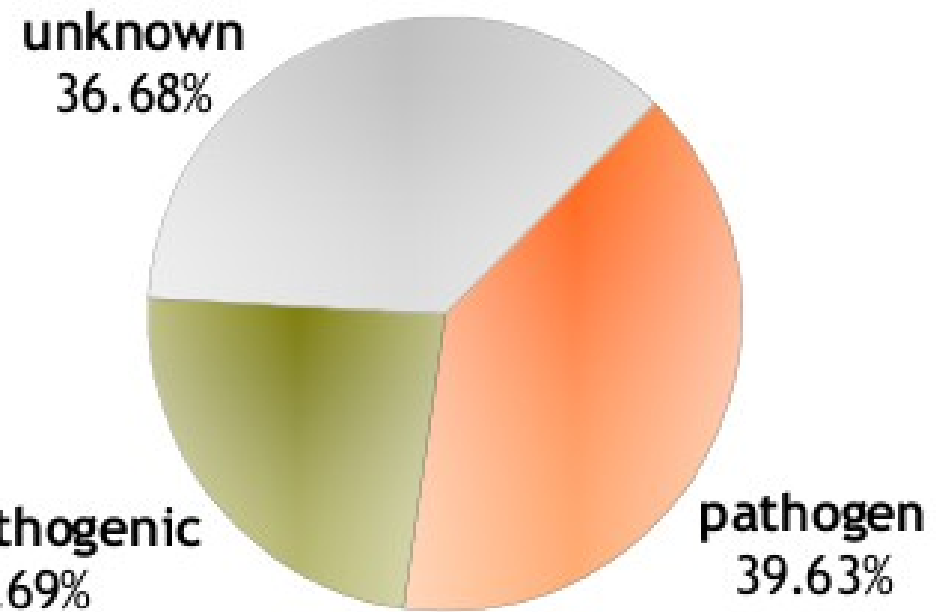
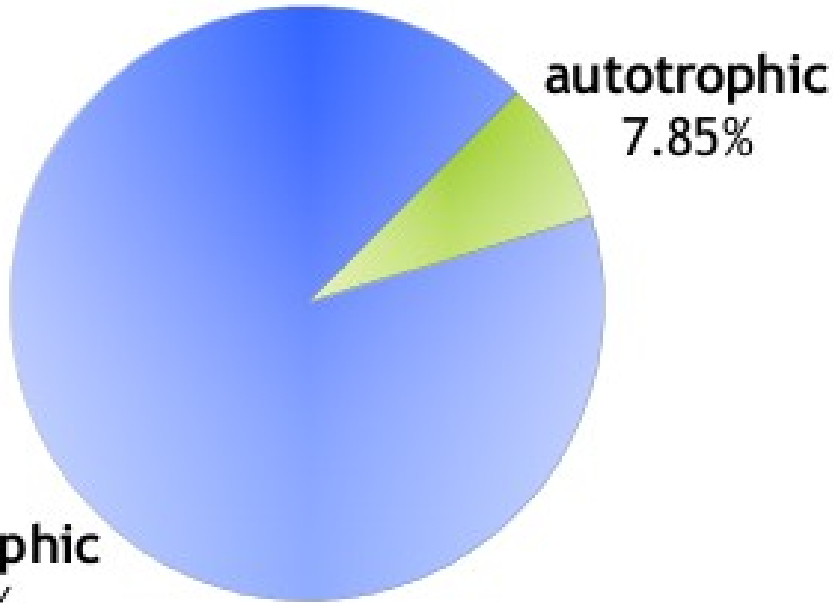
show

<http://edwards.sdsu.edu/adapt>

You can remake T-RFLPs *in silico*



We can categorize organisms



BACK!