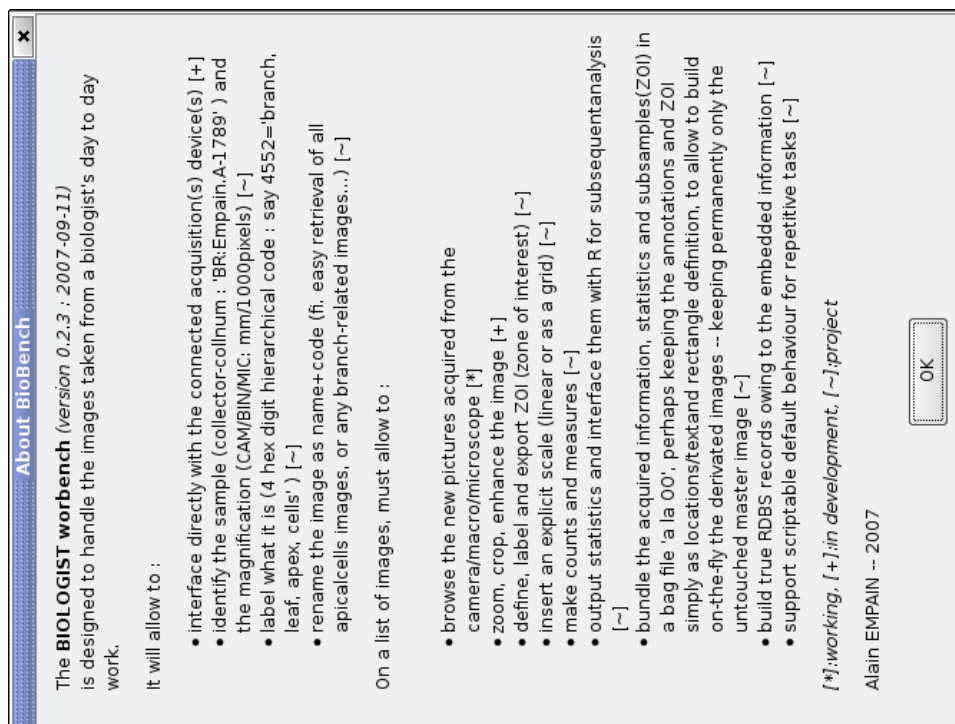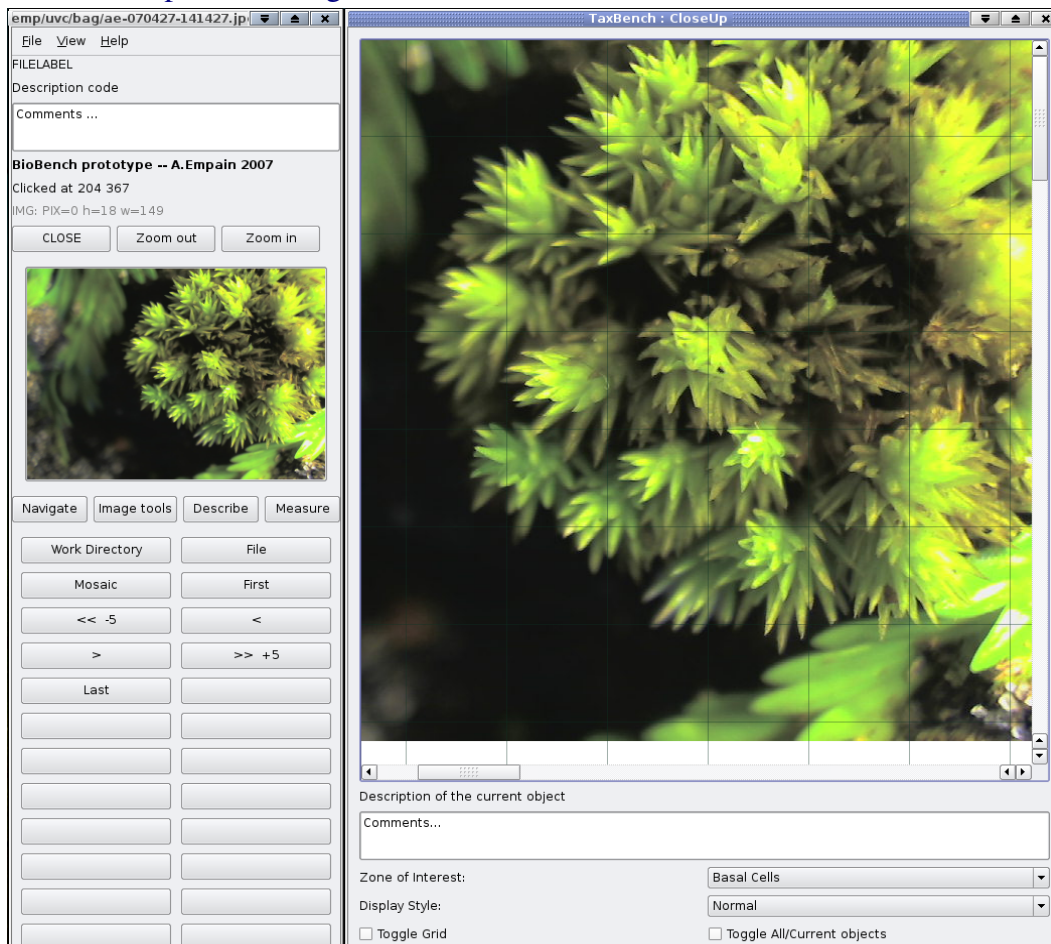# BioBench

An extensible front-end between the microscope and the database.

alain.empain@br.fgov.be
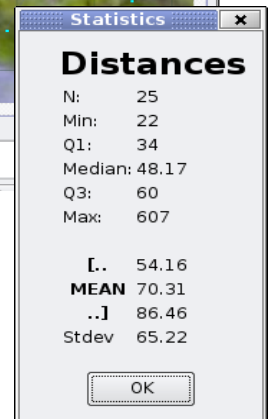
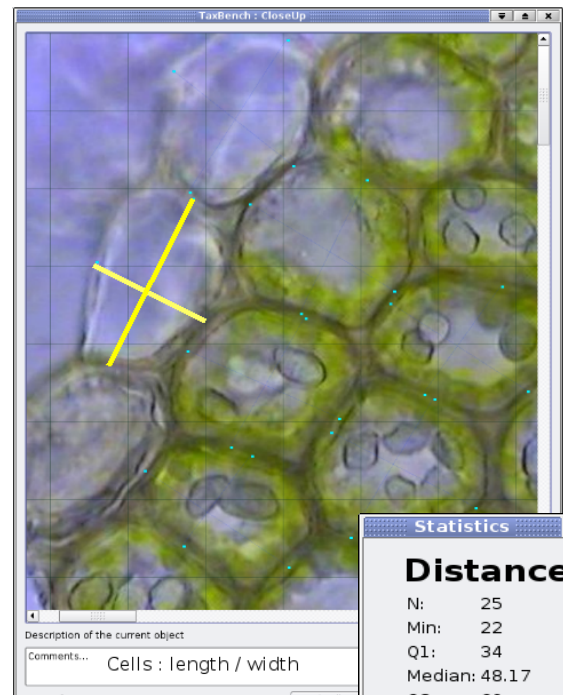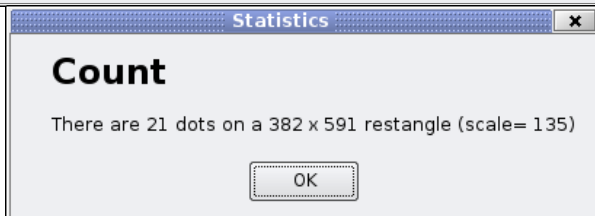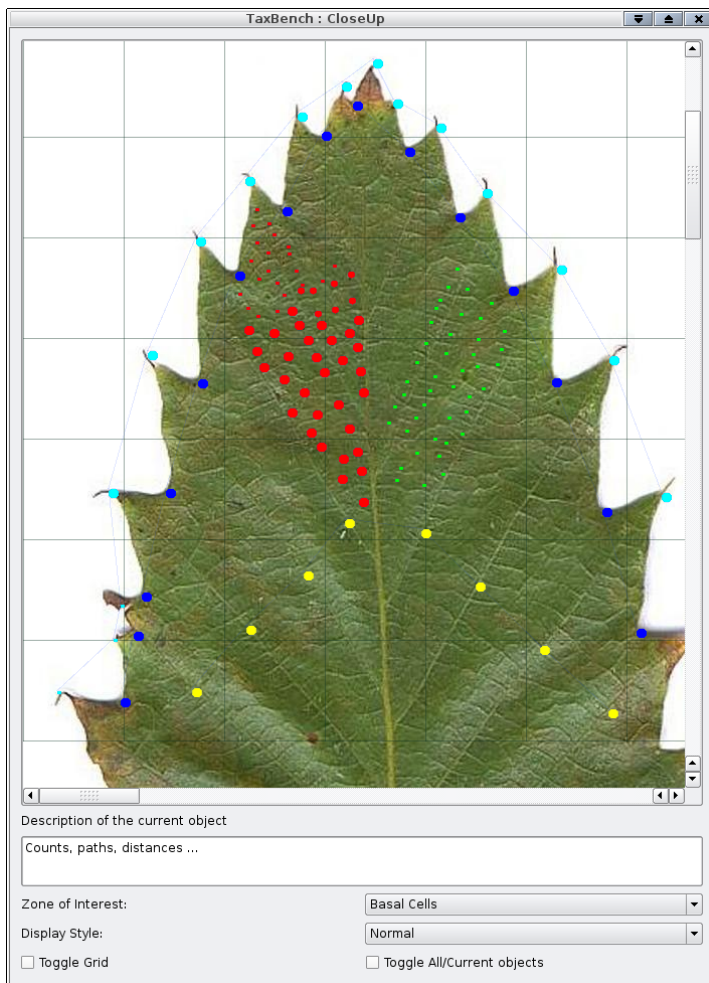 http://www.br.fgov.be/RESEARCH/INFORMATICS/biobench

Status :2007-09 : brainstorming, some parts already working (RUBY + Qt4)

Various parameters with statistics

(steps, segments, angles, length/width, surface, counts...)

TaxBench : CloseUp

Description of the current object

Counts, paths, distances ...

Zone of Interest: Basal Cells
Display Style: Normal
☐ Toggle Grid   ☐ Toggle All/Current objects

Statistics

Count

There are 21 dots on a 382 x 591 restangle (scale= 135)

OK

Interface to the powerful 'R' statistical package

R Graphics: Device 2 (ACTIVE)

Ex. of connection to R

TaxBench : CloseUp

Description of the current object

Comments... Cells : length / width

Statistics

Distances

N:	25
Min:	22
Q1:	34
Median:	48.17
Q3:	60
Max:	607
[..	54.16
MEAN	70.31
..]	86.46
Stdev	65.22

OK

Tagging of the ZOI's (zones of interest), using an hierarchical thesaurus code

BR:Empain.A-1211:3000:0

STEM LEAVES, tissue differentiation

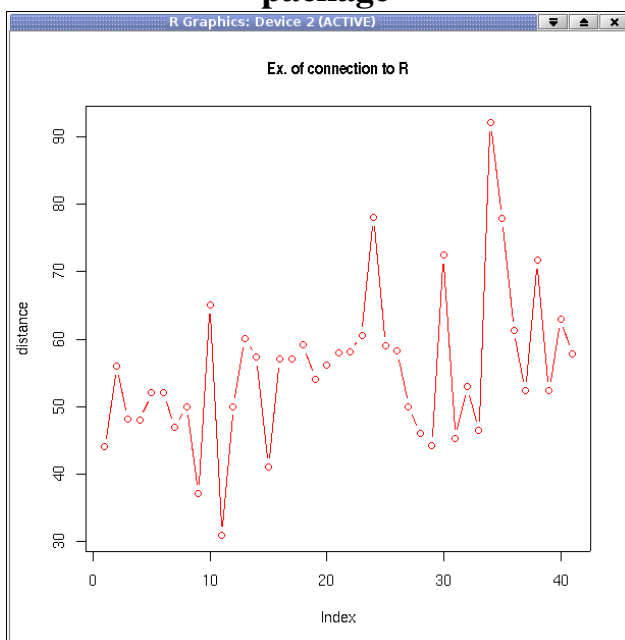Comments ...

Navigate	Image tools	Describe	Measure

STEM LEAVES	shape
volum	tissue differentiation
margin	costa
upper cells	cross-section
>BACK<	>RESET<

```
# ==============================
3000 STEM LEAVES
# ==============================

3300 tissue differentiation

3310 synthetic description

3320 base and alar overview
3321 shape differentiation
3322 pattern of cellular differentiation

3330 basal cells
3331 global differentiation
3332 wall differentiation
3333 cell length
3334 cell width
```