

UNDER THE HOOD AT A BIOINFORMATICS PROJECT

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YAPC 2007

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sol genomics network

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Getting started

What is SGN?

SGN info

[SGN data overview](#)

[More about SGN](#)

[SQL project - Outreach](#)

[SQL newsletter](#)

[International tomato project](#)

[The ECO-SOL Project](#)

[The Secretom Project](#)

SOL species

Solanaceae

[Tomato](#)

[Pepper](#)

[Potato](#)

[Eggplant](#)

[Petunia](#)

[Solanum nomenclature](#)

Rubiaceae

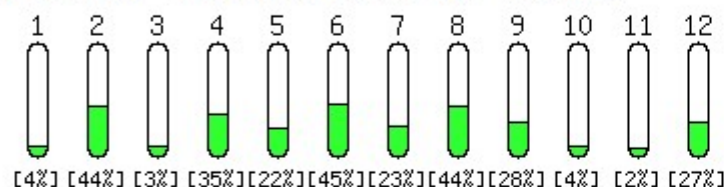
[Coffee](#)

Tomato genome

[Sequencing progress](#)

[Search BACs](#)

International Tomato Sequencing Progress



Featured publication

Regulation of LANCEOLATE by miR319 is required for compound-leaf development in tomato

Ori N, Cohen AR, Etzioni A, Brand A, Yanai O, Shleizer S, Menda N, Amsellem Z, Efroni I, Pekker I, Alvarez JP, Blum E, Zamir D, Eshed Y. Nat. Genet. [May 7, 2007]

[See all publications...](#)

News

SGN has open postdoc and programmer positions

SGN has several [open positions](#) for postdocs, programmers and a system administrator. Contact [SGN](#) for more information. [June 13, 2007]

New maps added to SGN

Several [new tomato maps](#), such as the [IL map](#), a [Contig map](#), as well as an improved [Physical map](#) were added to SGN. [June 13, 2007]

Special JSOL issue published

The Japanese SOL project (JSOL) contributed a [special issue](#) related to progress on tomato and



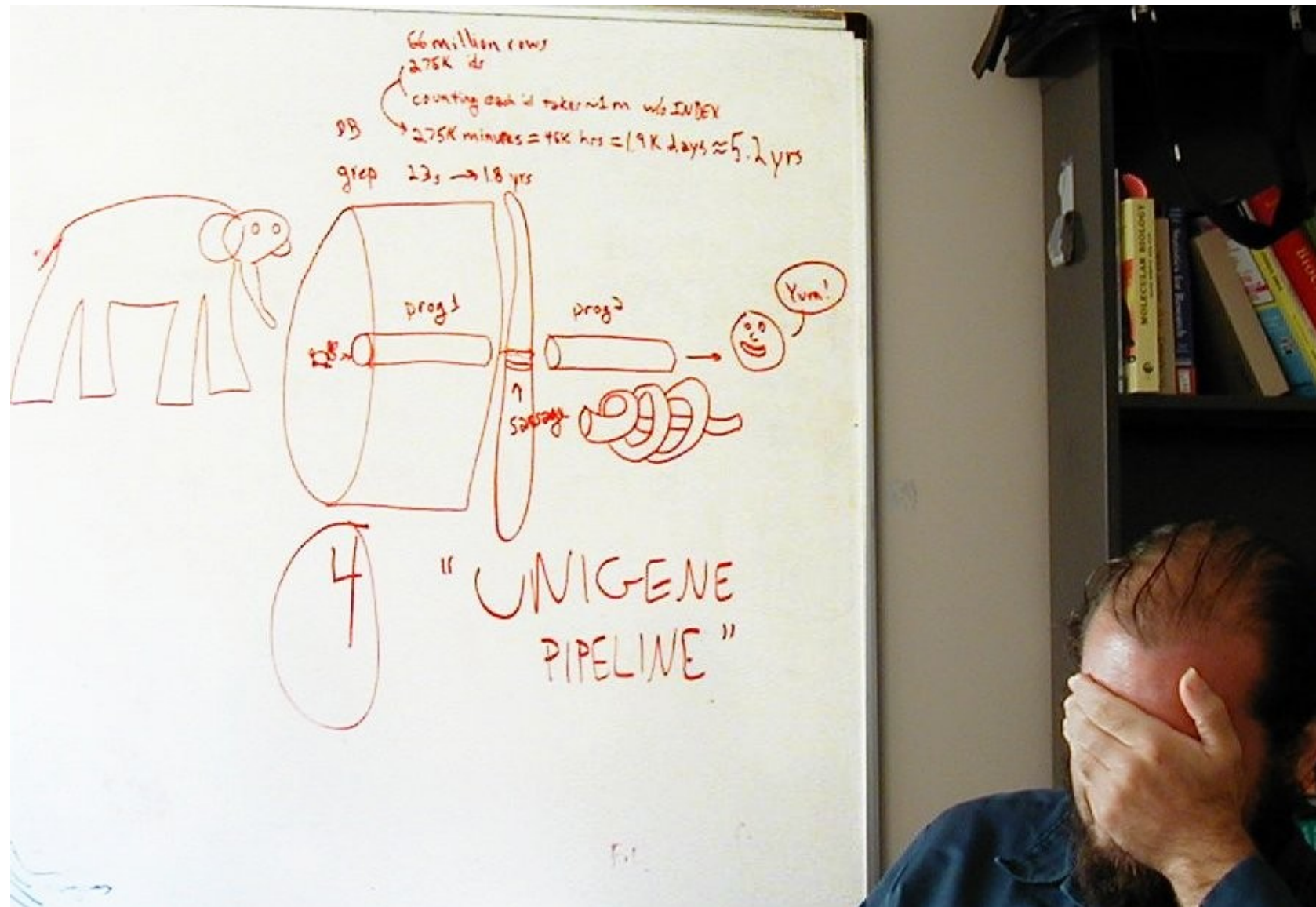
SOLANACEAE



RUBIACEAE



PIPELINES



FILE FORMATS

GAATCTCACA CCTGCTCCAC
GCGTTCTCGTTACTGGTGCT
GGAACACAACCAAGAAGTGGA
GCGGTTGATTCACATCGTAA
GGATTTCTCATGGAGAATCAGTC
CGTAAAGGGTTGTTCTTGTGC
TTCGGATAAAGCAATCCACC
TTCGGATAAAGCAATCCACC
ACAACAAAGGCAGCTGGTTC
ACTCACCATGGCTGCTTCTT
from Nancy
TGGCTGCCTCTTCTCTGTTT
CGGAGAGTGAAGATGCATTG
ACACCCGCTG TTTGTGACTT
TGCTTCTGAGGAGCCTGCAAAATAGACAAA
TGGCTCATCCTGAAGCTGATAGCGC
TGGATTTGATTAGCCGAAGG
TCTCAGTGGACTAAGGGGTCA

FREE SOFTWARE

- PostgreSQL database
- Apache web server
- Debian
- Subversion
- Perl, of course



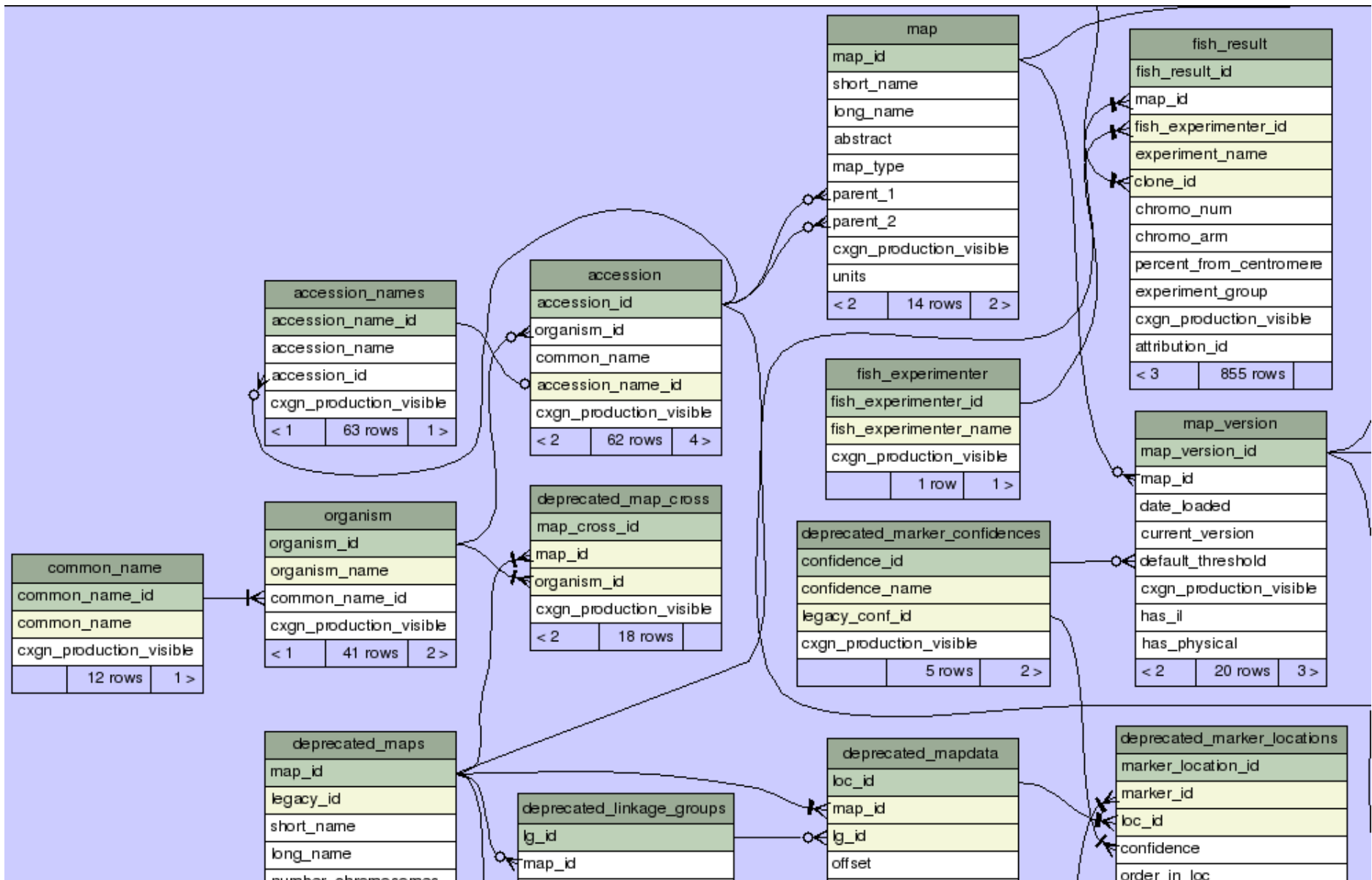
NIFTY TRICKS

- Custom apt repository
- svn tags for “releases”
- offsite mirror
- Virtualhost generator / conf object
- system-wide messages
- Immediate notification of website errors

OTHER TOOLS WE USE

- mailman
- wiki
- spong
- schemaspy
- torque

SCHEMASPY



MONITORING THE SERVER ROOM

Spong and PuceBaboon

File Edit View Go Bookmarks Tools Help del.icio.us

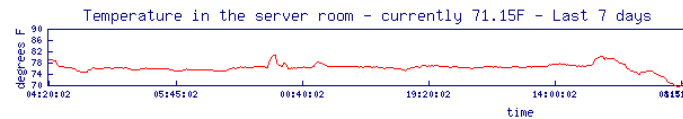
http://sgn-devel.sgn.cornell.edu/about/server_room.pl

home work increment decrement Bugmenot Bookm... utility recent Simply This! post to del.icio.us pl buses beth / links GTD Work caching ideas >>

Temperature as of Thu Jun 21 11:25:02 2007:

21.75 C (71.15 F)

[Cluster QuickView](#)



Spong v2.7 [Groups](#) | [Hosts](#) **Extended ActionBar:** [Spong RRD Charts](#)

Hosts View

[Ack](#) | [Summary](#) | [History](#)
| [Help](#)

| solanine.sgn.cornell.edu

problem: [jobs](#)
updated: 11:23,
06/21/07

| shiv2.cluster.sgn

problem: [ping](#)
updated: 11:26,
06/21/07

[Group: All Systems](#)

Updated at 11:26, on
06/21/07

All Systems

Host	ping	cpu	disk	dns	ftp	http	jobs	memory	nfs	smtp	ssh
solanine											
sabazius											
rubisco											
hyoscine											
scopolamine											
pyrimidine											
solcyc											
blade1											
blade2											
blade3											
blade4											
blade5											
blade6											
blade7											
blade8											
shiv1											
shiv2											
shiv3											
shiv4											
shiv5											
shiv6											
shiv7											
shiv8											

HARDWARE



THANKS!

Senior Staff



Lukas Mueller
Director



Naama Menda
Postdoctoral Fellow

Bioinformatics Analysts



Beth Skwarecki



Robert Buels



Richard "Marty"
Kreuter



Adri Mills



Chris Carpita

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