

COST Full Proposal Reference oc-2010-1-7183
For the implementation of a European Concerted Research Action

Bingos

(Bioinformatics Next Generation Open Software)

URL-Links used in the proposal

Proposing country	Spain
Action proposer:	Dr. Oswaldo Trelles
Institution:	University of Malaga Department of Computer Architecture ETSI Informatica, Campus de Teatinos Malaga 29071, Spain Phone: +34 952 13 2823 Fax: +34 952 13 2790 Email: ots @ ac.uma.es, ortrelles @ uma.es

Links used along the documents

Advanced Research on GP GPU cOmputing (ARGO):

<http://trac.elet.polimi.it/argo>

Advancing Clinico Genomics Trials on Cancer (ACGT): <http://www.eu-acgt.org>

analysis methylation Quantitative Trait Locus (mQTL):

<http://www.bioinformatics.org/mqtl>

Applied Biosystems' SOLiD:

http://www3.appliedbiosystems.com/AB_Home/applicationstechnologies/SOLiDSystemSequencing/index.htm

Barcelona Supercomputing Center (BSC): <http://www.bsc.es>

BioBank: <http://www.biobankcentral.org>

BioCEP-R: <http://biocep-distrib.r-forge.r-project.org>

BioConductor: <http://www.bioconductor.org>

Bioinformatics and Technologies Laboratory: www.bitlab-es.com

BioMOBY protocol: <http://www.biomoby.org>

Biomolecular simulations by Quantum mechanics molecular mechanics (QMMM):

<http://comp.chem.umn.edu/qmmm>

BIOSAPIENS: <http://www.biosapiens.info>

BOINC, the Berkeley Open Infrastructure for Network Computing

caGrid/caBIG: <https://cabig.nci.nih.gov>

CASIMIR: <http://www.casimir.org.uk/>

Collaborative Computational Project No. 4 - Software for Macromolecular X-Ray Crystallography: <http://www.ccp4.ac.uk/>

COST Action IC0702:

http://www.cost.esf.org/index.php?id=110&action_number=IC0702

DASTY, a protein DAS client: <http://www.ebi.ac.uk/dasty>

Database Center for Life Science, development of Microbial Genome Annotation Pipeline (MiGAP): <http://migap.lifesciencedb.jp>

DataMiningGrid: <http://www.datamininggrid.org>

Distributed computing grid for data intensive sciences.

EGEE: <http://www.eu-egee.org>

ENFIN: <http://www.enfin.org>

ELIXIR:
<http://www.elixir-europe.org/page.php>

Environmental Components Underlying Berry Quality in Grapevine):
<http://www.genomecanada.ca/medias/pdf/en/IntlRegulomeConsortium.pdf>

ESP-SOL Project (identification of genes and molecules associated to tomato fruit quality and participation in the sequencing of euchromatic regions of chr 9):
<https://chirimoyo.ac.uma.es/epsol>

European Bioinformatics Institute (EBI): <http://www.ebi.ac.uk>

European Molecular Biology Open Software Suite (EMBOSS):
<http://emboss.sourceforge.net>

European School of Bioinformatics (EMBRACE): <http://www.embracegrid.info>

expression Quantitative Trait Locus (eQTL):
<http://www.biomedcentral.com/1471-2105/8/7>

FLOSS: <http://www.flossproject.org>

GALAXY: <http://g2.trac.bx.psu.edu>

GEN2PHEN: <http://www.gen2phen.org>

Global Biodiversity Information Facility (GBIF): <http://www.gbif.org>

Grapegen (A Genomic Approach to the Identification of Genetic and GRID: <http://boinc.berkeley.edu>

GridLab: <http://www.gridlab.org>

GridR provides GRID computing in ACGT: <http://eu-acgt.org/acgt-foryou/researchers/knowledge-discovery-tools/gridr.html>

Gromacs: <http://www.gromacs.org>

Illumina's Solexa: <http://www.illumina.com>

IntAct molecular interaction database: <http://www.ebi.ac.uk/iltact>

InteliGrid: <http://inteligrid.eu-project.info>

International Cancer Genome Consortium (ICGC): <http://www.icgc.org>

International Nucleotide Sequence Database Collaboration (INSDC):
<http://www.insdc.org>

ISMB: <http://www.iscb.org/ismbeccb2009>

Java: <http://www.java.com>

Laboratory of Interdisciplinary Technologies in Bioinformatics:
<http://www.litbio.org>

Long Short-Term Memory (LSTM): <http://www.bioinf.jku.at/software/lstm>

Mancoosi: <http://www.mancoosi.org>

Max Planck Institute: <http://www.mpg.de>

Message Passing Interface (MPI): <http://www.mpi-forum.org/docs>

MOLGENIS: <http://molgenis.sourceforge.net>

MyGRID: <http://www.mygrid.org.uk>

Nanoscale Molecular Dynamics (NAMD):
<http://www.ks.uiuc.edu/Research/namd>

Nanopores
<http://www.nanowerk.com/news/newsid=17170.php#>

National Center for Biotechnology Information (NCBI):
<http://www.ncbi.nlm.nih.gov>

OLEAGEN (generation of genomic tools in olive and applications to the analysis of fruit and oil quality and agronomical traits):
<http://chirimoyo.ac.uma.es/oleagen>

OMII-Europe: <http://omii-europe.com>

Ontology Lookup Service (OLS): <http://www.ebi.ac.uk/ols>

Open Bioinformatics Foundation (OBF): <http://www.open-bio.org>

Open Multi-Processing (OpenMP): <http://www.openmp.org>

OSS Machine Learning Movement: <http://jmlr.csail.mit.edu/mloss>

PandA: <http://trac.elet.polimi.it/panda>

Perl: <http://www.perl.org>

Pleurogene (Flatfish Genomics: Enhancing Commercial Culture of Atlantic Halibut and Senegal Sole): http://www.fundacionoesa.es/es/es/index.php?option=com_proyectos&task=detail&id=555&Itemid=8

Protein Identification Database (PRIDE): <http://www.ebi.ac.uk/pride>
Protein Identity Cross-Reference Service (PICR): <http://www.ebi.ac.uk/Tools/picr>

Proteomics Standards Initiative (PSI): <http://www.psidev.info>

PyMOL Molecular Viewer: <http://www.pymol.org>

Python: <http://www.python.org>

R/OpenMP: <http://code.google.com/p/romp/wiki/RopenMP>

R/Parallel: <http://www.rparallel.org>

R/qtl: <http://www.rqtl.org>

R/SNOW: <http://www.sfu.ca/~sblay/R/snow.html>

R+GPU: <http://brainarray.mbni.med.umich.edu/brainarray/rgpgpu>

Reactome database of pathways: <http://www.reactome.org>

RECOMB: <http://www.bio5.org/recomb2009>

Roche's 454: <http://www.454.com>

Segmental duplications (in neurodevelopmental, neurological, and behavioural disorders): <http://www.ontariogenomics.ca/research/project/46>

Sequencing a Genome a Week: <http://radar.oreilly.com/2009/07/sequencing-a-genome-a-week.html>

Semiconductors
<http://www.technologyreview.com/biomedicine/23589/>

SMRT technology
<http://www.pacificbiosciences.com/>

Targeted Proteins Research Program (TPRP): <http://www.tanpaku.org>

TECHGENE: FP7 project for high throughput molecular diagnostics of clinically and molecularly heterogeneous genetic disorders:
<http://www.igmd.nl/page/82/techgene.html>

The Institute of Legal Informatics of Gottfried Wilhelm Leibniz Universität

Hannover: <http://www.iri.uni-hannover.de>

The BioJava project: <http://www.biojava.org>

The BioMart project: <http://www.biomart.org>

The COST Action TD0801 termed 'Statistical Challenges on the 1000€ Genome Sequences in Plants': <http://www.statseq.eu>

The European Molecular Biology Laboratory (EMBL): <http://www.embl-heidelberg.de>

The European Nordic BioGrid Project:
http://openbio.org/w/images/4/4a/Bosc2009_submission_28.pdf

The INB genomic projects:
http://www.inab.org/?option=com_projects&Itemid=62

The National Institute of Bioinformatics (INB, Spain): <http://www.inab.org>

The Need for Open Source Software in Machine Learning:
<http://jmlr.csail.mit.edu/papers/volume8/sonnenburg07a/sonnenburg07a.pdf>

The Open Microscopy Environment: <http://www.openmicroscopy.org/site>

The R Project for Statistical Computing: <http://www.r-project.org>

The Wellcome Trust Sanger Institute: <http://www.sanger.ac.uk>

TheBioGRID (NIH funded): <http://www.thebiogrid.org>

UCSF Chimera: <http://www.cgl.ucsf.edu/chimera>

Wageningen University – Laboratory of Nematology: <http://www.nem.wur.nl/UK>

Web API for Biology (WABI): <http://xml.nig.ac.jp>

XGAP: <http://www.gap-system.org/Packages/xgap.html>