



blast2go
Command Line Tools



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Blast2GO[®]
Command Line Tools
**A flexible high-performance
solution for your automatic
functional annotation needs**

Blast2GO[®] Command Line Tools allows you to integrate and automate your functional annotation task in a flexible way. Generate high-quality results in a reproducible way directly integrated into your data analysis workflows.

HIGH-PERFORMANCE

The command-line version of Blast2GO allows you to analyse large dataset on your performant computing servers will nearly no extra effort.

FLEXIBLE

Easily integrate your functional annotation tasks within your custom analysis pipeline and run different analysis scenarios in parallel.

AUTOMATIC DATA GENERATION

Generate all the statistics charts Blast2GO offers in a automatic fashion. This includes a summary report in PDF as well as images and text file formats.

REPRODUCIBILITY

Control the whole analysis with a simple configuration file. This allows you to set up different analysis strategies and reproduce the multiple scenario for one or various datasets.

SECURE

Run BLAST, InterProScan and the Blast2GO annotation offline on your own servers according to your security requirements. Take 100% control of data sources and versions you use throughout the analysis.



Run Blast2GO on your own servers and control all analysis steps from the command line.

MAIN COMMAND LINE FEATURES

- Automate your functional annotation
- Reproduce your results in a consistent manner
- Handle tens of thousand of sequences
- Design advanced annotation strategies
- Integrate Blast2GO into your existing analysis pipeline
- Work offline with your own databases
- Create your own local Blast2GO database
- Fast import of BLAST and InterProScan results
- Automatically generate PDF Reports
- Save all your results to specific project folders
- Work consistent and effective once you found the right settings for your analysis

Developed by:



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www.blast2go.com



IMPORTANT COMMAND LINE OPTIONS

- **Load Data Options**
 - Annotation File (annot)
 - BLAST results (xml)
 - Blast2GO Projects (dat)
 - Fasta Files (fasta)
 - InterProScan results (xml)
- **Analysis Options**
 - Gene Ontology Mapping and, Annotation, Annex, GoSlim
- **Result Options**
 - Blast2GO Projects (dat)
 - Project report (pdf)
 - Gene Ontology Graphs
 - Annotation file (annot)
 - Summary Charts (png)
 - Data export as text (txt)
- **Other Options**
 - Set input and output folder
 - Generation of a local Blast2GO Database

QUOTATION

"We designed the Blast2GO Command Line Tool to offer maximal flexibility, offering a solution which is easy to set up and which can be used by researchers still less experienced with this type of interfaces. With this solution you can configure a complete Blast2GO workflow and analyse huge datasets in a standardised fashion on your own computing resources with ease."

David Seide
Scientific Programmer
BioBam Bioinformatics, Valencia, Spain

DEVELOPED BY

Blast2GO is developed and maintained by BioBam Bioinformatics which is internationally recognised for its expertise in functional annotation and genome analysis - and demonstrated by over 1000 citations. With our solutions we transform the process of complex data analysis into an attractive and interactive task for biologists reducing the gap between experimental work, bioinformatics analysis, and applied research.

A flexible high-performance solution for your automatic functional annotation needs

SYSTEM REQUIREMENTS

Blast2GO Command line tools are designed to work on Linux platforms but can be adapted to other systems. All systems have to have Java from Sun/Oracle (version 1.6 or higher) installed. We recommend at least 1 GB of ram. For a local Blast2GO database a MySQL database (GPL licence) installation is necessary.

For evaluation please request a

FREE TRIAL

and test Blast2GO CLI for 1 month

For more information visit

www.blast2go.com

Blast2GO Command Line v0.9.0 build: 20131217

Blast2GO

usage: blast2go_cli [-annex] [-annotation] [-createkeyfile] [-gog
<graphs>] [-goslim <name>] [-help] [-loadblast <path>] [-loa
-loadfasta <path>] [-loadips48 <path>] [-mapping] [-nodat
[-overwrite] [-projectfolder <path-to-folder>] [-projectname <name>] [-protein
[-saveseqtable] [-showlicenseinfo] [-statistics <charts>] [-tempfolder <path-to

options:
-annex
-annotation
-createkeyfile

-gograph <graphs>
-goslim <name>

-help
-loadannot <path>
-loadblast <path>
-loadaddat <path>
-loadfasta <path>

-loadips48 <path>
-loadips50 <path>
-mapping
-nodat
-noreport
-overwrite
-projectfolder <path-to-folder>
-projectname <name>
-protein

-saveannot
-saveseqtable

-showlicenseinfo
-statistics <charts>

-tempfolder <path-to-folder>

Run ANNEX

Run GO annotation
Creates a GO database on a mysql server you specify. If you do not specify a server, you will be prompted for the server details. The necessary files (4) will be downloaded automatically, you will be prompted for the uris in the properties file.

adjust the uris in the workstation information. the file (information.b2g) will be located in the current folder. Create a file containing the desired graphs e.g. mf, bp, cc, mol, mol_f, mol_c, mol_p, mol_s, mol_t, mol_u, mol_v, mol_w, mol_x, mol_y, mol_z, mol_aa, mol_ab, mol_ac, mol_ad, mol_ae, mol_af, mol_ag, mol_ah, mol_ai, mol_aj, mol_ak, mol_al, mol_am, mol_an, mol_ao, mol_ap, mol_aq, mol_ar, mol_as, mol_at, mol_au, mol_av, mol_ay, mol_az, mol_ba, mol_bb, mol_bc, mol_bd, mol_be, mol_bf, mol_bg, mol_bh, mol_bi, mol_bj, mol_bk, mol_bl, mol_bm, mol_bn, mol_bo, mol_bp, mol_bq, mol_br, mol_bs, mol_bt, mol_bu, mol_bv, mol_bw, mol_bx, mol_by, mol_bz, mol_ca, mol_cb, mol_cc, mol_cd, mol_ce, mol_cf, mol_cg, mol_ch, mol_ci, mol_cj, mol_ck, mol_cl, mol_cm, mol_cn, mol_co, mol_cp, mol_cq, mol_cr, mol_cs, mol_ct, mol_cu, mol_cv, mol_cw, mol_cx, mol_cy, mol_cz, mol_da, mol_db, mol_dc, mol_dd, mol_de, mol_df, mol_dg, mol_dh, mol_di, mol_dj, mol_dk, mol_dl, mol_dm, mol_dn, mol_do, mol_dp, mol_dq, mol_dr, mol_ds, mol_dt, mol_du, mol_dv, mol_dw, mol_dx, mol_dy, mol_dz, mol_ea, mol_eb, mol_ec, mol_ed, mol_ee, mol_ef, mol_eg, mol_eh, mol_ei, mol_ej, mol_ek, mol_el, mol_em, mol_en, mol_eo, mol_ep, mol_eq, mol_er, mol_es, mol_et, mol_eu, mol_ev, mol_ew, mol_ex, mol_ey, mol_ez, mol_fa, mol_fb, mol_fc, mol_fd, mol_fe, mol_ff, mol_fg, mol_fh, mol_fi, mol_fj, mol_fk, mol_fl, mol_fm, mol_fn, mol_fo, mol_fp, mol_fq, mol_fr, mol_fs, mol_ft, mol_fu, mol_fv, mol_fw, mol_fx, mol_fy, mol_fz, mol_ga, mol_gb, mol_gc, mol_gd, mol_ge, mol_gf, mol_gg, mol_gh, mol_gi, mol_gj, mol_gk, mol_gl, mol_gm, mol_gn, mol_go, mol_gp, mol_gq, mol_gr, mol_gs, mol_gt, mol_gu, mol_gv, mol_gw, mol_gx, mol_gy, mol_gz, mol_ha, mol_hb, mol_hc, mol_hd, mol_he, mol_hf, mol_hg, mol_hh, mol_hi, mol_hj, mol_hk, mol_hl, mol_hm, mol_hn, mol_ho, mol_hp, mol_hq, mol_hr, mol_hs, mol_ht, mol_hu, mol_hv, mol_hw, mol_hx, mol_hy, mol_hz, mol_ia, mol_ib, mol_ic, mol_id, mol_ie, mol_if, mol_ig, mol_ih, mol_ii, mol_ij, mol_ik, mol_il, mol_im, mol_in, mol_io, mol_ip, mol_iq, mol_ir, mol_is, mol_it, mol_iu, mol_iv, mol_iw, mol_ix, mol_iy, mol_iz, mol_ja, mol_jb, mol_jc, mol_jd, mol_je, mol_jf, mol_jg, mol_jh, mol_ji, mol_jj, mol_jk, mol_jl, mol_jm, mol_jn, mol_jo, mol_jp, mol_jq, mol_jr, mol_js, mol_jt, mol_ju, mol_jv, mol_jw, mol_jx, mol_jy, mol_jz, mol_ka, mol_kb, mol_kc, mol_kd, mol_ke, mol_kf, mol_kg, mol_kh, mol_ki, mol_kj, mol_kk, mol_kl, mol_km, mol_kn, mol_ko, mol_kp, mol_kq, mol_kr, mol_ks, mol_kt, mol_ku, mol_kv, mol_kw, mol_kx, mol_ky, mol_kz, mol_la, mol_lb, mol_lc, mol_ld, mol_le, mol_lf, mol_lg, mol_lh, mol_li, mol_lj, mol_lk, mol_ll, mol_lm, mol_ln, mol_lo, mol_lp, mol_lq, mol_lr, mol_ls, mol_lt, mol_lu, mol_lv, mol_lw, mol_lx, mol_ly, mol_lz, mol_ma, mol_mb, mol_mc, mol_md, mol_me, mol_mf, mol_mg, mol_mh, mol_mi, mol_mj, mol_mk, mol_ml, mol_mm, mol_mn, mol_mo, mol_mp, mol_mq, mol_mr, mol_ms, mol_mt, mol_mu, mol_mv, mol_mw, mol_mx, mol_my, mol_mz, mol_na, mol_nb, mol_nc, mol_nd, mol_ne, mol_nf, mol_ng, mol_nh, mol_ni, mol_nj, mol_nk, mol_nl, mol_nm, mol_nn, mol_no, mol_np, mol_nq, mol_nr, mol_ns, mol_nt, mol_nu, mol_nv, mol_nw, mol_nx, mol_ny, mol_nz, mol_oa, mol_ob, mol_oc, mol_od, mol_oe, mol_of, mol_og, mol_oh, mol_oi, mol_oj, mol_ok, mol_ol, mol_om, mol_on, mol_oo, mol_op, mol_oq, mol_or, mol_os, mol_ot, mol_ou, mol_ov, mol_ow, mol_ox, mol_oy, mol_oz, mol_pa, mol_pb, mol_pc, mol_pd, mol_pe, mol_pf, mol_pg, mol_ph, mol_pi, mol_pj, mol_pk, mol_pl, mol_pm, mol_pn, mol_po, mol_pp, mol_pq, mol_pr, mol_ps, mol_pt, mol_pu, mol_pv, mol_pw, mol_px, mol_py, mol_pz, mol_qa, mol_qb, mol_qc, mol_qd, mol_qe, mol_qf, mol_qg, mol_qh, mol_qi, mol_qj, mol_qk, mol_ql, mol_qm, mol_qn, mol_qo, mol_qp, mol_qq, mol_qr, mol_qs, mol_qt, mol_qu, mol_qv, mol_qw, mol_qx, mol_qy, mol_qz, mol_ra, mol_rb, mol_rc, mol_rd, mol_re, mol_rf, mol_rg, mol_rh, mol_ri, mol_rj, mol_rk, mol_rl, mol_rm, mol_rn, mol_ro, mol_rp, mol_rq, mol_rr, mol_rs, mol_rt, mol_ru, mol_rv, mol_rw, mol_rx, mol_ry, mol_rz, mol_sa, mol_sb, mol_sc, mol_sd, mol_se, mol_sf, mol_sg, mol_sh, mol_si, mol_sj, mol_sk, mol_sl, mol_sm, mol_sn, mol_so, mol_sp, mol_sq, mol_sr, mol_ss, mol_st, mol_su, mol_sv, mol_sw, mol_sx, mol_sy, mol_sz, mol_ta, mol_tb, mol_tc, mol_td, mol_te, mol_tf, mol_tg, mol_th, mol_ti, mol_tj, mol_tk, mol_tl, mol_tm, mol_tn, mol_to, mol_tp, mol_tq, mol_tr, mol_ts, mol_tt, mol_tu, mol_tv, mol_tw, mol_tx, mol_ty, mol_tz, mol_ua, mol_ub, mol_uc, mol_ud, mol_ue, mol_uf, mol_ug, mol_uh, mol_ui, mol_uj, mol_uk, mol_ul, mol_um, mol_un, mol_uo, mol_up, mol_uq, mol_ur, mol_us, mol_ut, mol_uu, mol_uv, mol_uw, mol_ux, mol_uy, mol_uz, mol_va, mol_vb, mol_vc, mol_vd, mol_ve, mol_vf, mol_vg, mol_vh, mol_vi, mol_vj, mol_vk, mol_vl, mol_vm, mol_vn, mol_vo, mol_vp, mol_vq, mol_vr, mol_vs, mol_vt, mol_vu, mol_vv, mol_vw, mol_vx, mol_vy, mol_vz, mol_wa, mol_wb, mol_wc, mol_wd, mol_we, mol_wf, mol_wg, mol_wh, mol_wi, mol_wj, mol_wk, mol_wl, mol_wm, mol_wn, mol_wo, mol_wp, mol_wq, mol_wr, mol_ws, mol_wt, mol_wu, mol_wv, mol_wx, mol_wy, mol_wz, mol_xa, mol_xb, mol_xc, mol_xd, mol_xe, mol_xf, mol_xg, mol_xh, mol_xi, mol_xj, mol_xk, mol_xl, mol_xm, mol_xn, mol_xo, mol_xp, mol_xq, mol_xr, mol_xs, mol_xt, mol_xu, mol_xv, mol_xw, mol_xx, mol_xy, mol_xz, mol_ya, mol_yb, mol_yc, mol_yd, mol_ye, mol_yf, mol_yg, mol_yh, mol_yi, mol_yj, mol_yk, mol_yl, mol_ym, mol_yn, mol_yo, mol_yp, mol_yq, mol_yr, mol_ys, mol_yt, mol_yu, mol_yv, mol_yw, mol_yx, mol_yy, mol_yz, mol_za, mol_zb, mol_zc, mol_zd, mol_ze, mol_zf, mol_zg, mol_zh, mol_zi, mol_zj, mol_zk, mol_zl, mol_zm, mol_zn, mol_zo, mol_zp, mol_zq, mol_zr, mol_zs, mol_zt, mol_zu, mol_zv, mol_zw, mol_zx, mol_zy, mol_zz

Display this message

Path to .annot file

Path to Blast xml file

Path to B2G-Project file

Path to fasta file (Do not forget to add -prot necessary)

Path to InterProScan 4.8 folder

Path to InterProScan 5.0 file or folder

Run GO mapping

Do not create .dat file (default: false)

Do not create .pdf report (default: false)

Do not create project folder (default: false)

Overwrite project folder (default: false)

Project folder (default: current folder)

Project name (default: b2g_project)

Interpret fasta file content as protein (default: false)

used together with -loadfasta option

Saves the .annot file after finishing

Saves a tab separated text file in your data as it would be shown in

Show details about the currently

Comma separated list of desired

-statistics without options to

charts)

Path to temporary folder (default: temp)

can be shared among different

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