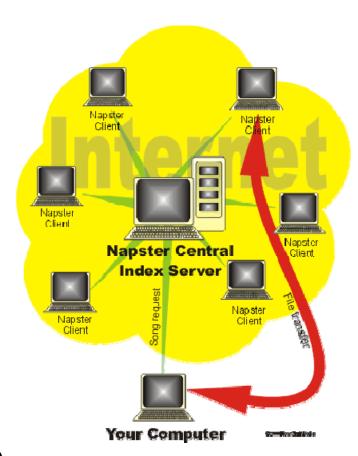




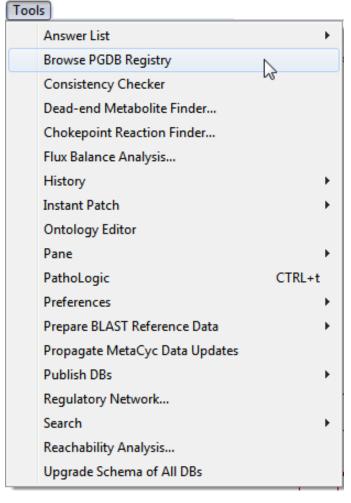
This presentation can be found at http://bioinformatics.ai.sri.com/ptools/tutorial/sessions/

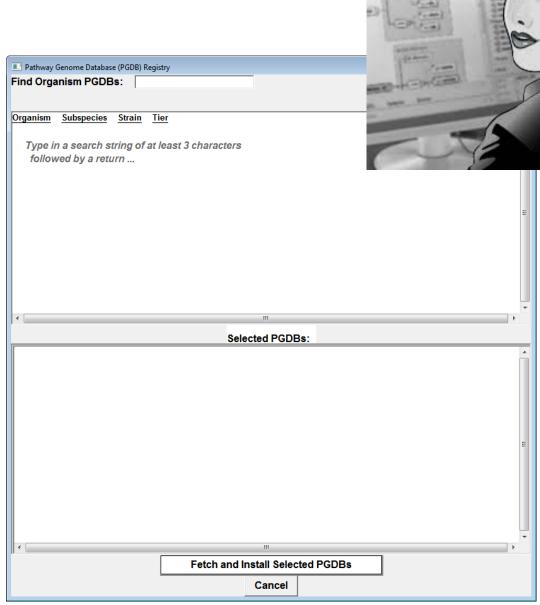
The PGDB Registry

- The PGDB Registry is an Internet-based mechanism for sharing PGDBs among Pathway Tools users.
- The Registry itself is a server operating at SRI that lists the set of available PGDBs. It does not actually contain the PGDBs.
- The PGDBs reside at sites maintained by the users who chose to register them.
- All of the BioCyc PGDBs, plus many more, are available at the Registry



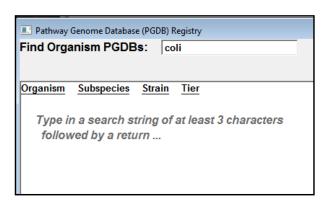
Accessing The Registry





Searching for PGDBs







Pathway Genome Database (PGDB) Registry				
Find Organism PGDBs	coli			
Search string coli found 170 organism entries:				
Organism	Subspecies	Strain	<u>Tier</u>	
Amycolicicoccus subflavus		DQS3-9A1	3	
Amycolicicoccus subflavus		DQS3-9A1	3	
Anaerotruncus colihominis		DSM 17241	3	
Brachyspira pilosicoli		95/1000	3	
Brachyspira pilosicoli		B2904	3	
Brachyspira pilosicoli		P43/6/78	3	
Brachyspira pilosicoli		WesB	3	
Campylobacter coli		15-537360	3	
Campylobacter coli		76339	3	
Campylobacter coli		JV20	3	
Escherichia coli		042	3	
Escherichia coli		101-1		
Escherichia coli		1827-70		
Escherichia coli		2362-75		
Escherichia coli		3431		
Escherichia coli		4_1_47FAA	3	
Escherichia coli		536	3	
(

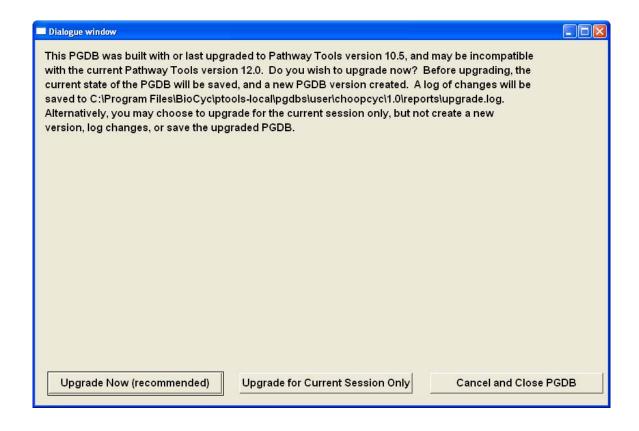
Downloading from The Registry



- Select the desired PGDBs
- Click on the "Fetch & install selected PGDBs" button
- Agree to Terms and Conditions
- Wait...
- The tar.gz file would be downloaded and decompressed, and the uncompressed files will be copied to their destination (ptoolslocal/pgdbs/registry/dbname
- Once the process is done, the software will notify you, and you can start using the new PGDB (unless a schema upgrade is required...)

Schema Upgrades





Publishing a PGDB – The Process

The process of publishing a PGDB involves three steps:

- The directories and files that make up the PGDB are packaged and compressed into a single archive file.
- The packaged file is moved to a Web server or an FTP server on a site of your choosing (usually one maintained by your organization) that allows anonymous access for retrieval of stored files.
- The PGDB is registered with the SRI registry server, from which it is visible to Pathway Tools users across the Internet.



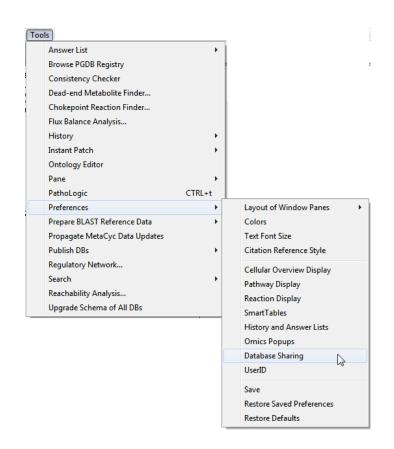
Publishing a PGDB – Preliminary Step

The process of uploading a PGDB to the Registry is largely automated.

However, before this can be done, the user needs to answer some **technical** questions about their FTP/Web server.

Tools → Preferences → Database Sharing



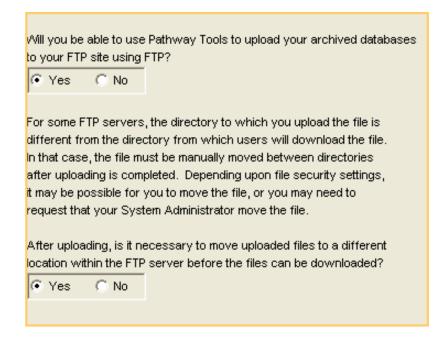


Preliminary Step: Setting Preferences

You will need to answer the following two questions:

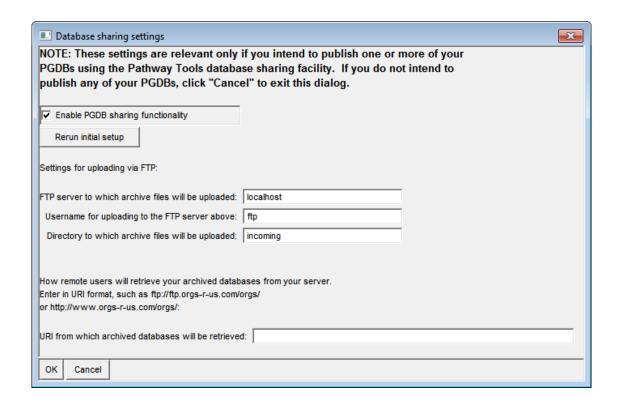
Note: if you answer "No" to the first question, you will need to move the packaged files yourself to the location where the files will be available to the public.





Preliminary Step: Setting Preferences

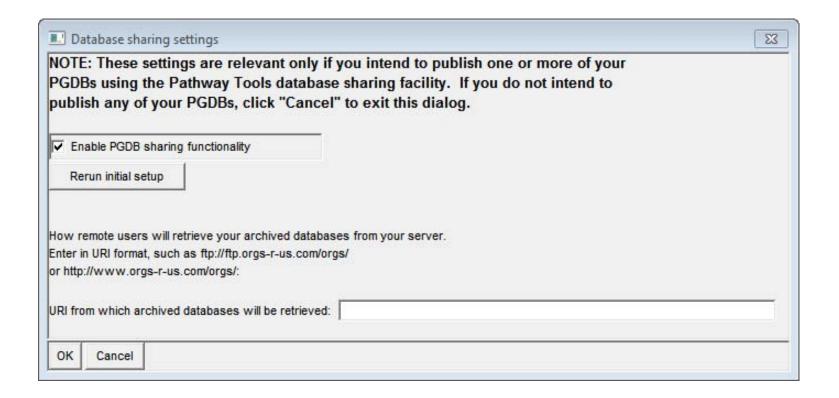
Depending on how you answered these questions, you will see either this (if you answer "Yes" to the first question):





Preliminary Step: Setting Preferences

Or this, if you answer "No" to the first question:

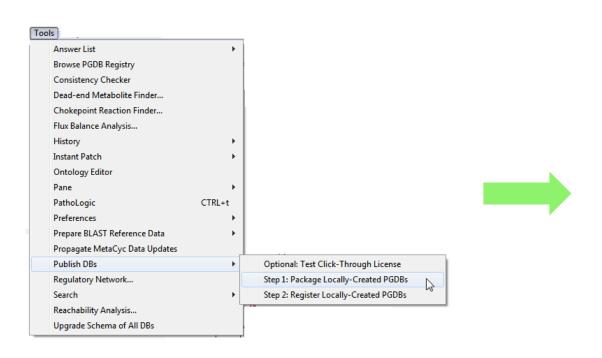


Publishing a PGDB – Packaging

The process is started by Tools → Publish DBs → Step 1

 Depending on your setup, you may have to manually move the files that are generated during this step to its final location





Package local PGDBs	
Check off the PGDBs that you intend to publish.	
When you push the "Select for packaging" button, the select	ed PGDBs
will be packaged into archive files.	
You must then perform whatever actions are needed outsid	e of Pathway Tools
to make them available for retrieval by other users using an	-
before continuing with Step 2 of the publishing process,	
which will enter your PGDBs into the Pathway Tools Registry	
Organism	Select for packaging
Agrobacterium fabrum C58	
Anopheles gambiae	
Arabidopsis thaliana col	
Aurantimonas manganoxydans SI85-9A1	
Bacillus anthracis Ames	
Bacillus subtilis 168	
Bos taurus	
Candida albicans SC5314	
Caulobacter crescentus CB15	
Caulobacter crescentus NA1000	
Package selected databases Abort	

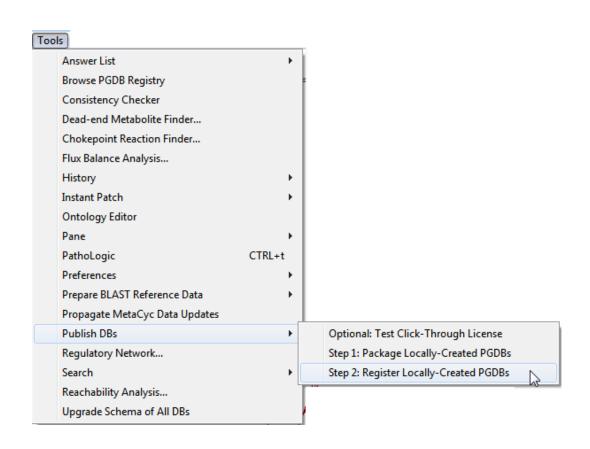
Publishing a PGDB – Registering

Last step: Registering

PGDBs with the SRI Registry

(Step 2)





See "Publishing PGDBs in the Registry" in the User Guide for more details