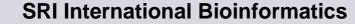
How to Administer a PGDB





Getting Ready to Release

• Decide on release frequency

- Don't wait until it's perfect to release it!
- Run consistency checker
 - Also updates organism-summary statistics
- Update publications, authors in organism frame
 - Right-click on organism, Edit->Frame Editor
- Update Overview
- Deposit PGDB in SRI PGDB registry
 - Will allow SRI to include it in BioCyc
- Create new version of PGDB
 - Edit against the new version, old version visible through web site
 - How to ensure web server sees right version?
- Author release notes



Administering the Web Server

- Web server is written entirely in Lisp!
- May need to restart server periodically
- We use website monitor to page admin when site is down
- <u>http://xyzcyc.org/load-patches</u>
- http://xyzcyc.org/purge-cache
- When an error occurs:
 - (setf cwest::*debug?* t) to enter debugger



Using RDBMS for Storage

Either Oracle or MySQL

- Enable concurrent multi-user updates
- Backup KB to File command from Pathologic
- Show Changes
 - Lists all changes for a particular database object in reverse chronological order
 - Internal Ocelot representation of changes



☆ History of changes to PRTRANS-RXN



The log contains the following operations on the frame PRTRANS-RXN.				
		05/03/2006 @ 17:24:08		
1 1			PRTRANS-RXN	
			RIGHT	
			(ANTHRANILATE PRPP)	
			:SLOT-TYPE	
			:AUTO)	
paley	18246	05/03/2006 @ 17:24:08		
			PRTRANS-RXN	
			LEFT	
			(N-(5-PHOSPHORIBOSYL)-ANTHRANILATE	
			PPI)	
			:SLOT-TYPE :AUTO)	
kr	12632	04/07/2005 @ 17:10:50	·	
VT	12052	04/07/2003 @ 17:10:30	PRTRANS-RXN	
			BALANCE-STATE	
			:BALANCED	
			:SLOT-TYPE	
			:AUTO)	
caspi	12212	02/24/2005 @ 17:16:37	(REMOVE-SLOT-VALUE	
			PRTRANS-RXN	
			IN-PATHWAY 7	
4			Þ	

Dismiss



Update Propagation

New version of Pathway Tools includes updates to MetaCyc

- New/updated compound structures, names, synonyms
- Updated reaction substrates, EC numbers
- Updated pathways
 - names, reactions, layout
 - pathways may be split into sub-pathways
- New pathways, reactions, compounds
- Duplicate reactions, compounds merged

 Automated schema upgrade does not propagate any of these changes



Update Propagation

(propagate-updates-from-metacyc orgids)

- Internal tool not user-tested!
- Assumes any differences are due to changes in MetaCyc
- Propagates only selected slots
- Logs all changes, suggested changes check results carefully!
- Updates compounds, reactions
- Updates pathway names, but not topology
- Reports on differences in topology
- Does not infer any new pathways
- Work in progress!

