

Database Management Tools



Molly Leeper

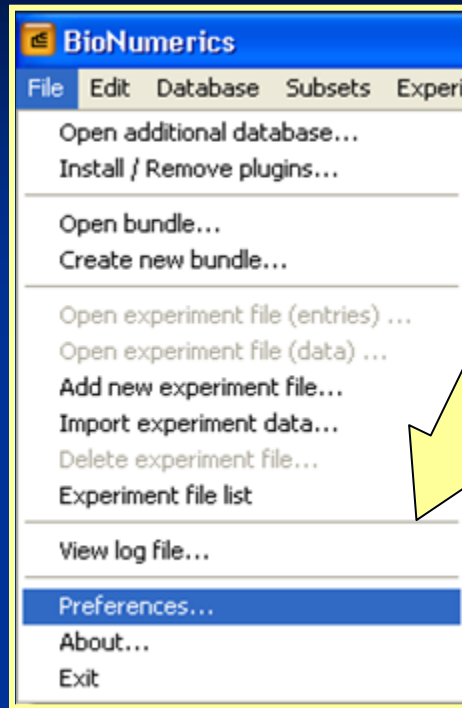
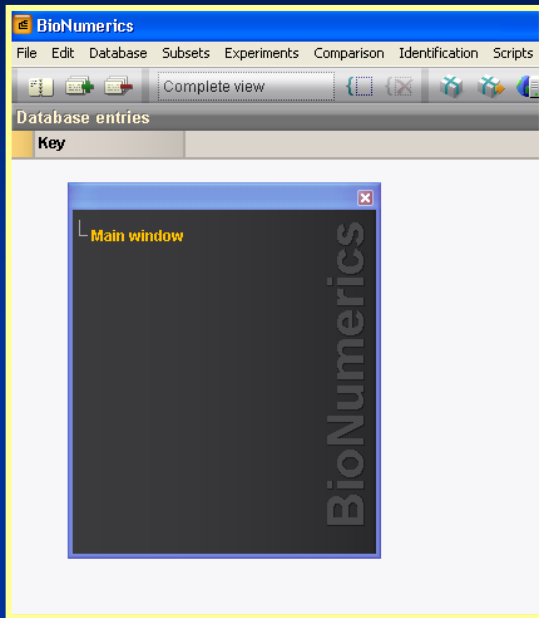
May 2009



Overview

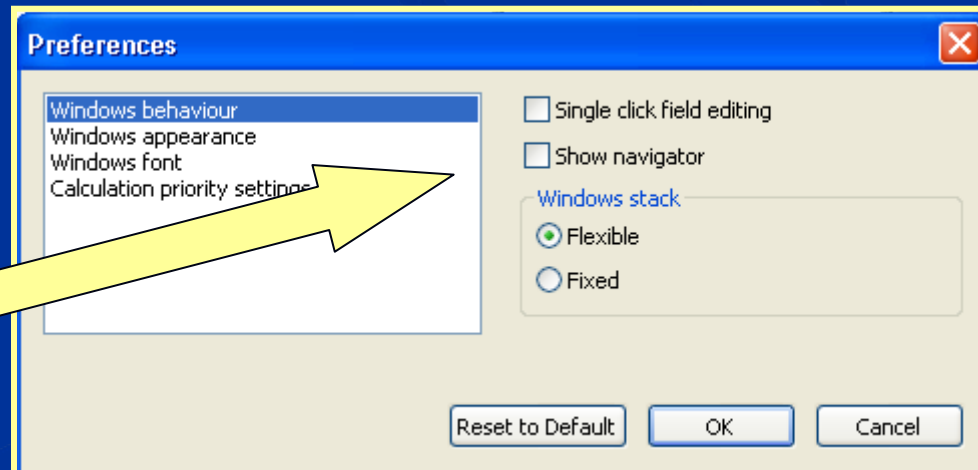
- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Navigator Window Removal



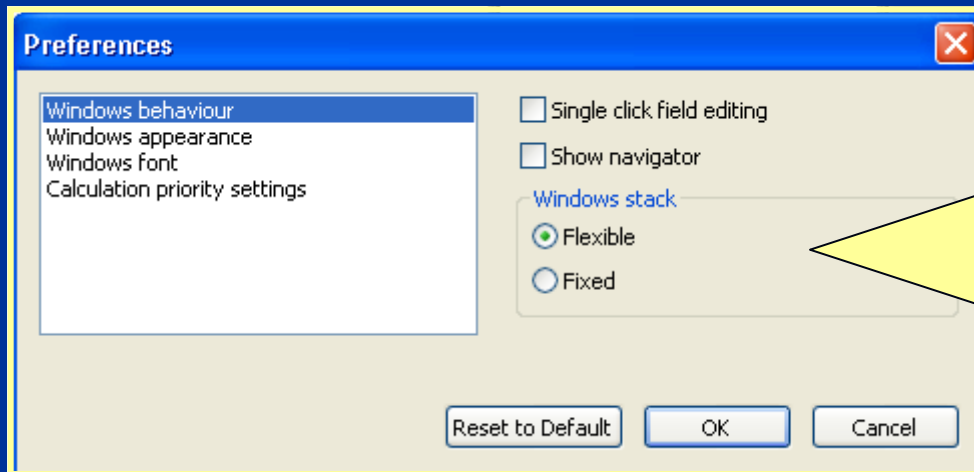
Select File, then Preferences

Under Windows behavior, uncheck "Show navigator" option

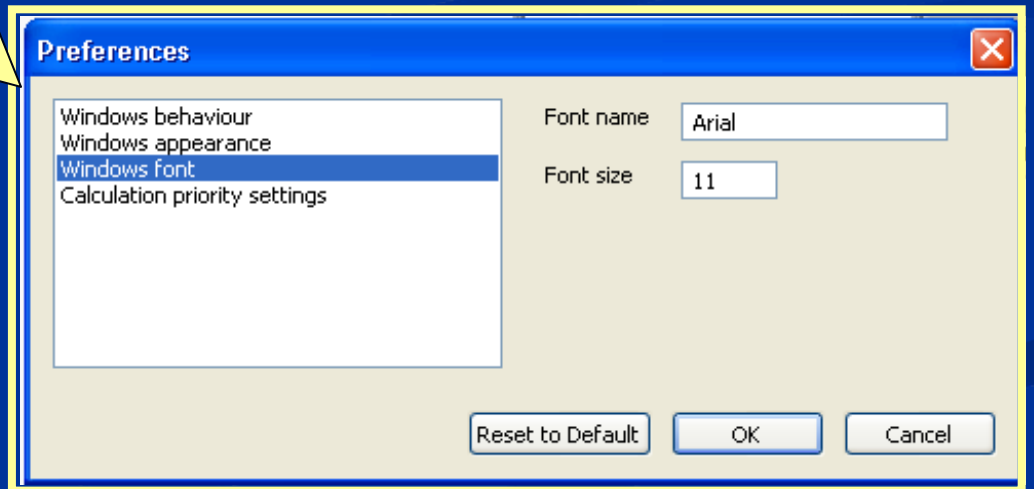
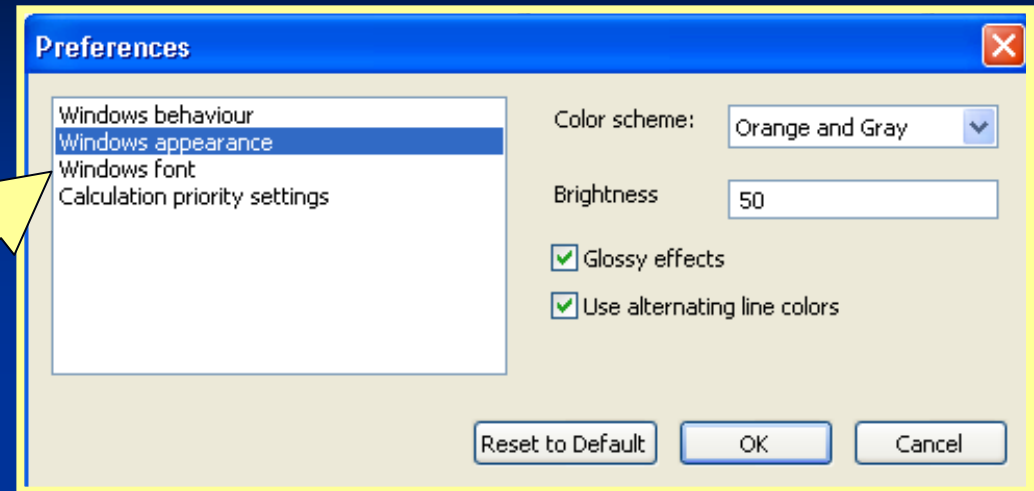


Preferences: Fixed vs. Flexible

- In order to keep all windows, when minimized, within the Bionumerics main screen, change the preferences to Fixed instead of Flexible under Windows Stack

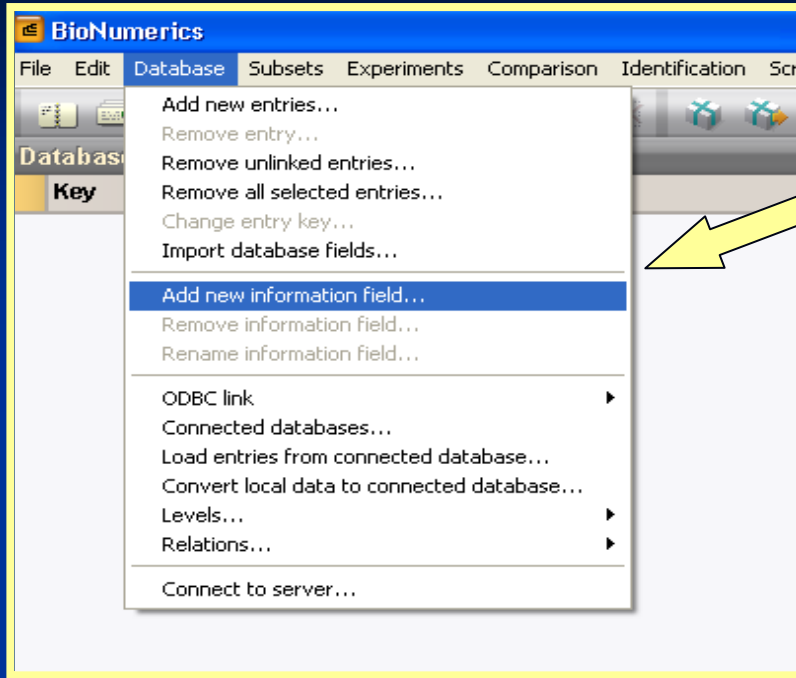


Preferences: Color and Font



Select either windows font for database text or windows appearance for color schemes

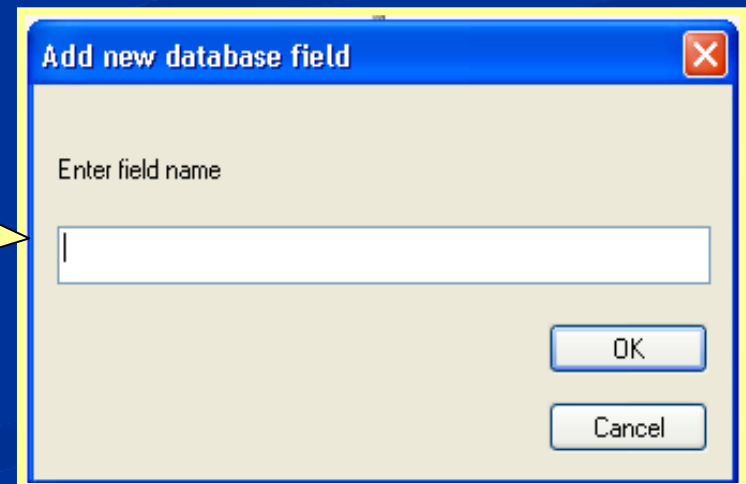
Adding Database Fields



To add additional database fields, select:

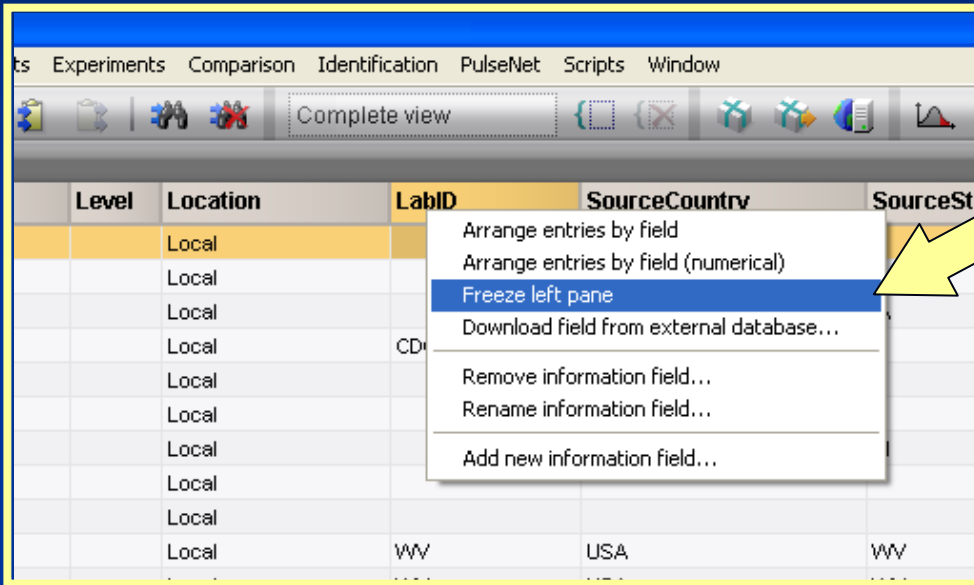
1. Database
2. Add new information field

Type the name of the new field into the entry window and select ok.



Freezing Panes

To set a column to be fixed, right click on the column before the column to be fixed



Level	Location	LabID	SourceCountry	SourceStz
	Local			
	Local			
	Local			
	Local	CD		
	Local			
	Local			
	Local			
	Local			
	Local			
	Local	WV	USA	WV

By freezing a column, all columns located before will also be stationary

Overview

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Settings Menu

APPLIED MATHS

BioNumerics®

Version 5.00

Settings

Database	Last accessed	Comment
Campy NEW	2008-07-18 14:26	
Campy-client	2008-09-23 17:34	
Demobase 2D	2008-09-23 16:03	
DemoBase	2008-07-24 16:04	
Ecoli-client	2008-09-26 11:22	
MTDC Listeria Admin	2008-05-27 18:26	
MTDC Salmonella Admin	2008-09-26 15:16	
MTDC Shigella Admin	2008-05-27 18:19	
Salmonella Typhi_Global	2008-09-24 12:17	
Salmonella-client	2008-09-26 14:36	
Salmonella-client2	2008-09-26 09:35	
Salmonella_Jana	2008-09-24 12:58	
Script_Salmonella	2008-08-15 14:31	

Click "Settings"

Settings drop-down menu appears

Database settings...

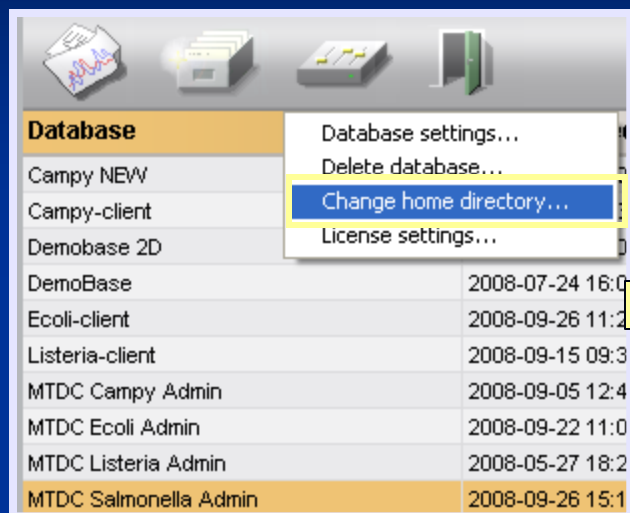
Delete database...

Change home directory...

License settings...

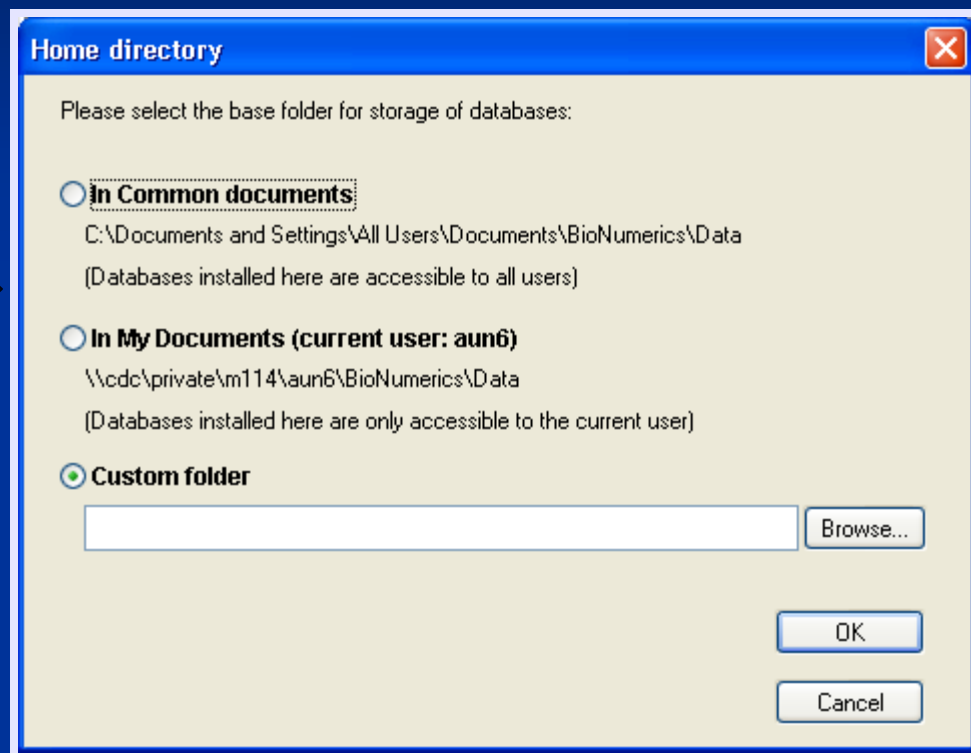
Database	Last accessed	Comment
Demobase 2D	2008-09-23 16:03	
DemoBase	2008-07-24 16:04	
Ecoli-client	2008-09-26 11:22	
Listeria-client	2008-09-15 09:33	
DC Campy Admin	2008-09-05 12:41	
DC Ecoli Admin	2008-09-22 11:05	
DC Listeria Admin	2008-05-27 18:26	
DC Salmonella Admin	2008-09-26 15:16	
DC Shigella Admin	2008-05-27 18:19	
Salmonella Typhi_Global	2008-09-24 12:17	
Salmonella-client	2008-09-26 14:36	

Settings: Directory Location



A screenshot of a database management application. At the top, there are icons for a folder, a printer, a network card, and a server. Below these is a table of databases. A context menu is open over the table, with 'Change home directory...' highlighted. A yellow arrow points from this menu item to the 'Home directory' dialog box on the right.

Database	
Campy NEW	
Campy-client	
Demobase 2D	
DemoBase	2008-07-24 16:0
Ecoli-client	2008-09-26 11:2
Listeria-client	2008-09-15 09:3
MTDC Campy Admin	2008-09-05 12:4
MTDC Ecoli Admin	2008-09-22 11:0
MTDC Listeria Admin	2008-05-27 18:2
MTDC Salmonella Admin	2008-09-26 15:1



A screenshot of the 'Home directory' dialog box. The title bar says 'Home directory'. The main text says 'Please select the base folder for storage of databases:'. There are three radio button options: 'In Common documents' (selected), 'In My Documents (current user: aun6)', and 'Custom folder'. Below 'In My Documents' is a text box containing the path '\\cdc\private\m114\ aun6\BioNumerics\Data' and a 'Browse...' button. At the bottom right are 'OK' and 'Cancel' buttons.

Please select the base folder for storage of databases:

- In Common documents
C:\Documents and Settings\All Users\Documents\BioNumerics\Data
(Databases installed here are accessible to all users)
- In My Documents (current user: aun6)
\\cdc\private\m114\ aun6\BioNumerics\Data
(Databases installed here are only accessible to the current user)
- Custom folder

Browse...

OK
Cancel

This is the directory location of your BioNumerics database. You can change this location when necessary. Please ask your IT representatives to assist you.

Overview

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Database Fields: Order main window

The screenshot shows the BioNumerics software interface. The main window displays a table of database entries with the following columns: Index, Key, Serotype, PFGE-Xbal-patt..., PFGE-Xbal-sta..., PFGE-Blnl-pattern, FGE-Blnl-stat..., and Outbreak. The 'PFGE-Blnl-pattern' column is highlighted with an orange dashed box, and an orange arrow points to the 'PFGE-Xbal-sta...' column. A callout box with a black border contains the text 'Ctrl + Arrow Key' and a black arrow pointing left. The interface includes a menu bar (File, Edit, Database, Subsets, Experiments, Comparison, Identification, PulseNet, Scripts, Window), a toolbar, and several panels on the right side (Experiments, Files, Comparisons). The status bar at the bottom indicates the database is 'MTDC Salmonella Admin (connected)' with 39904 entries, 5 experiments, and the file path 'v:\cdc\private\m114\au6\BioNumerics Data\data\MTDC Salmonella Admin'.

Index	Key	Serotype	PFGE-Xbal-patt...	PFGE-Xbal-sta...	PFGE-Blnl-pattern	FGE-Blnl-stat...	Outbreak	1	2	3	4	5
1	AK__0726100119	Newport	JPX01.0085	Confirmed		nconfirmed						
2	AK__0726200064	Javiana	JGGX01.0966	Confirmed		nconfirmed						
3	AK__0726900180			Unconfirmed		nconfirmed						
4	AK__0727700112	Typhimurium	JPXX01.0302	Unsatisfactory	JPXA26.0183	nconfirmed	0711MOJPX-2c					
5	AK__0727700113	Typhimurium	JPXX01.0302	Unsatisfactory	JPXA26.0183	nconfirmed	0711MOJPX-2c					
6	AK__0728300145	Newport	JPX01.0085	Confirmed		nconfirmed						
7	AK__0728300147	London	TECX01.0004	Confirmed		nconfirmed						
8	AK__0728800289	Newport	JPX01.0418	Confirmed		nconfirmed						
9	AK__0729000025	I 4,[5],12:t-	JPXX01.0206	Unsatisfactory	JPXA26.0180	nsatisfactory	0706PAJPX-1					
10	AK__0729000145	Stanley	JNGX01.0342@	Unconfirmed		nconfirmed						
11	AK__0729000147	I 4,[5],12:t-	JPXX01.0206	Confirmed	JPXA26.0180	nconfirmed	0706PAJPX-1					
12	AK__0729200310	I 4,[5],12:t-	JPXX01.NG	Unsatisfactory	JPXA26.0879@	nconfirmed						
13	AK__0729500211	Enteritidis	JEGX01.0002	Confirmed		nconfirmed						
14	AK__0729700081	I 4,[5],12:t-	JPXX01.0006	Confirmed	JPXA26.0180	nconfirmed	0706PAJPX-1					
15	AK__0730300110	I 4,[5],12:t-			JPXA26.0611&	nconfirmed						
16	AK__0732300238	Hartford				nconfirmed						
17	AK__0732500203	Montevideo	JIXX01.0001	Confirmed		nconfirmed						
18	AK__0733400095	Weltevreden	JGPX01.0009	Unsatisfactory		nconfirmed						
19	AK__0733800081	Bovismorbifica...	JDFX01.0062	Confirmed		nconfirmed						
20	AK__0734600089	I 4,[5],12:t-	JPXX01.0621	Confirmed	JPXA26.0055	nconfirmed	0801ORJPX-1c					
21	AK__0800800101	Enteritidis	JEGX01.0056	Confirmed		nconfirmed						
22	AK__0801500116	Virchow	JDXX01.0026	Confirmed		nconfirmed						
23	AK__0802400246	Enteritidis	JEGX01.0184	Confirmed		nconfirmed						
24	AK__0802900240	Othmarschen ...	JJXX01.0027	Unconfirmed Se...		nconfirmed						
25	AK__0803600153	I 4,[5],12:t-	JPXX01.0003			nconfirmed						
26	AK__0803800103	Derby	JABX01.0028			nconfirmed						
27	AK__0804400172	Typhimurium	JPXX01.0003			nconfirmed						
28	AK__0804500229	V 4b,z35:- (Bo...				nconfirmed						
29	AK__0805100086	Apapa	JAPX01.0013	Confirmed		nconfirmed						
30	AK__0805800207	Derby	JABX01.0026	Unconfirmed Ser...		nconfirmed						
31	AK__0806000145	Serotype pend...	JPXX01.0621	Unconfirmed Ser...	JPXA26.0055	nconfirmed Ser...						
32												

Change the order of fields by selecting the field and holding the +ctrl key and the direction arrow of choice

Database Active Fields: Comparisons

Index	Key	SourceState
1	VM__07BC008808	VM
2	MO__MOENT0182-08	MO
3	AL__AL-1003188-08	AL
4	MA__08PF0358	MA
5	MA__08PF0351	CA
6	AR__AR08000920	AR
7	CA__08X00153	CA

Within comparisons, fields can be turned on and off using the pull-down menu with the gray arrow to the far right of the comparison window

Active Fields: Comparisons

The screenshot displays a software interface for comparing PFGE-XbaI patterns. The main window shows a comparison table with columns for Serotype, PFGE-XbaI-pattern, PFGE-XbaI-stat..., PFGE-BlnI-pattern, PFGE-BlnI-stat..., and Outbreak. Below this is a detailed view of the PFGE-XbaI pattern with a table of information fields including Index, Key, Serotype, and PFGE-XbaI-patt... A yellow callout box highlights a 'Column properties' dropdown menu on the right side of the interface, which lists various fields with checkboxes to toggle their visibility in the active view.

Index	Key	Serotype	PFGE-XbaI-patt...
1	HI__N08-135	Typhimurium	JPXX01.0302
2	KY__08-0262	Typhimurium	JPXX01.0302
3	KY__08-0396	Typhimurium v...	JPXX01.0302
4	LAC__Z20822	Typhimurium	JPXX01.0302
5	MA__08PF0816	Typhimurium	JPXX01.0302
6	MI__08ST000665	Typhimurium	JPXX01.0302
7	MI__08ST000667	Typhimurium	JPXX01.0302
8	MO__MOENT0719-08	Typhimurium	JPXX01.0302
9	NY__BAC0800002317	Typhimurium	JPXX01.0302
10	NY__BAC0800003433	Typhimurium	JPXX01.0302
11	NYC__nyc08-100597822	Typhimurium	JPXX01.0302
12	NYC__nyc08-100604000	Typhimurium v...	JPXX01.0302
13	OH__2008050536	Typhimurium	JPXX01.0302
14	OH__2008055822	Typhimurium	JPXX01.0302
15	OH__2008058018	Typhimurium	JPXX01.0302
16	PA__08E00684	Typhimurium	JPXX01.0302

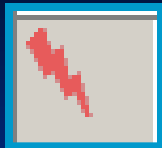
- Restore default settings
- Find in table...
- Copy content to clipboard
- Key
- Level
- Location
- Index
- Attachments
- LabID
- Serotype
- PFGE-XbaI-pattern
- PFGE-XbaI-file
- PFGE-XbaI-rundate
- PFGE-XbaI-status
- PFGE-BlnI-pattern
- PFGE-BlnI-file
- PFGE-BlnI-rundate
- PFGE-BlnI-status
- PFGE-SpeI-file
- PFGE-SpeI-pattern
- PFGE-SpeI-rundate
- PFGE-SpeI-status
- Outbreak
- SourceCountry
- SourceState
- SourceCity
- SourceSite
- SourceType
- TypeDetails
- PatientAge
- PatientSex
- IsolatDate
- ReceivedDate
- UploadDate
- AntigenForm
- OtherStateIsolate

Column properties drop down menu will appear; here you can check or un-check fields to change the active view within the comparison

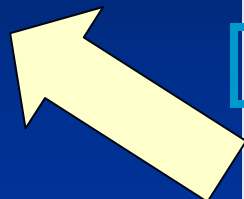
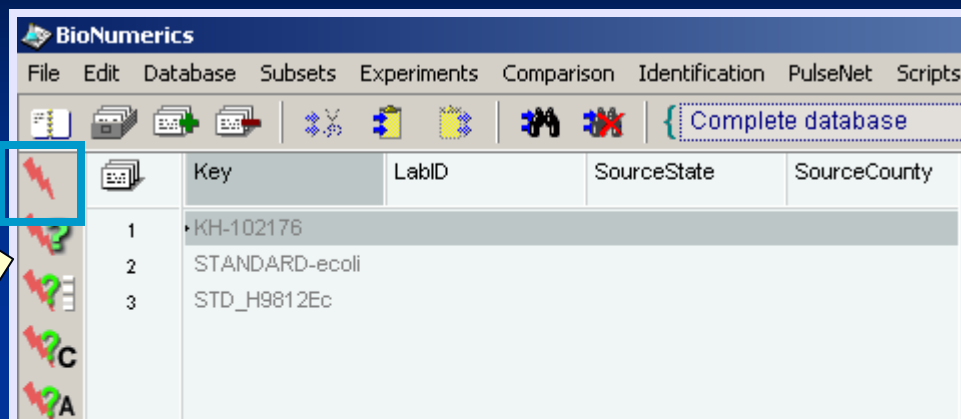
Overview

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

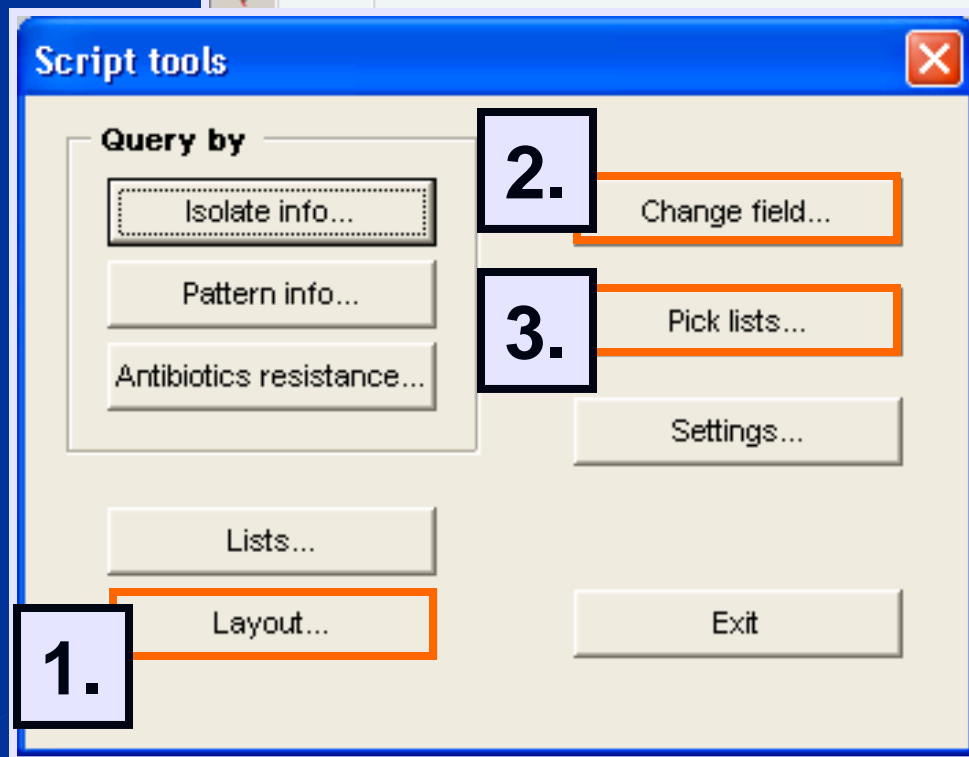
Layouts



**PulseNet Modified
Tools Shortcut**

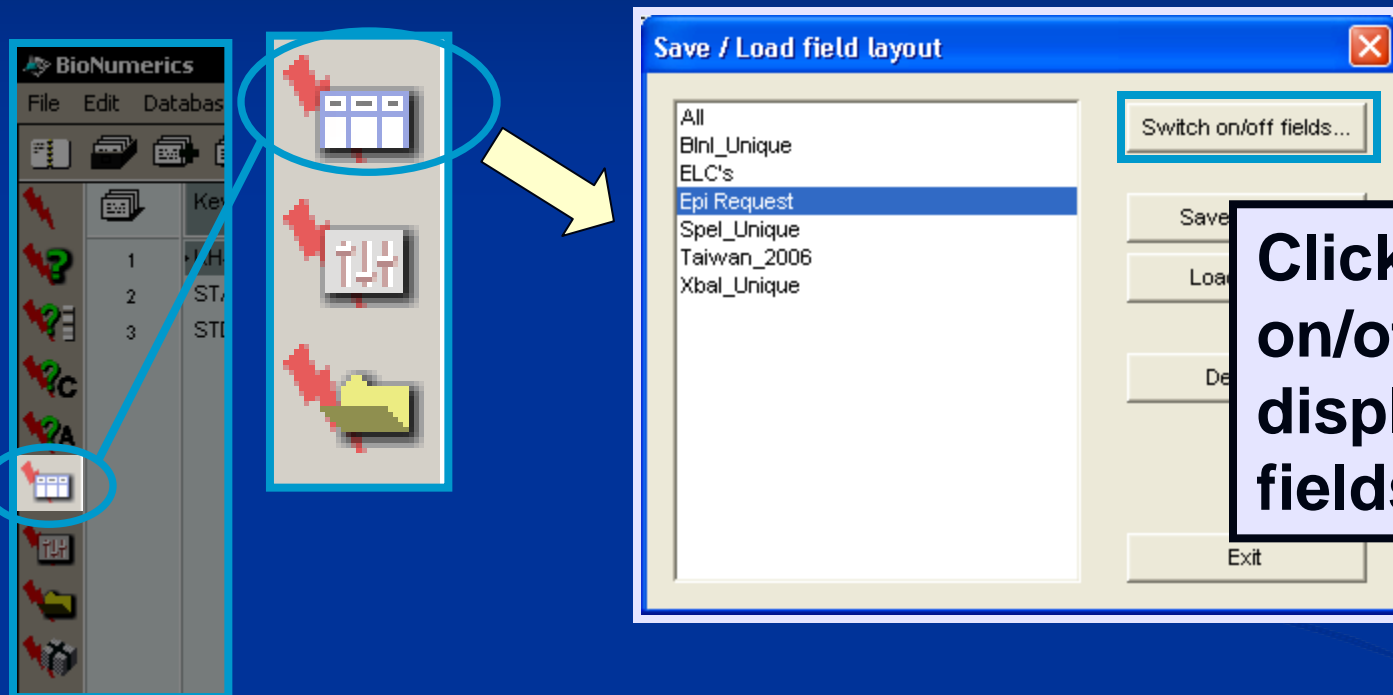


1. Layout
2. Change field
3. Pick lists



Layouts

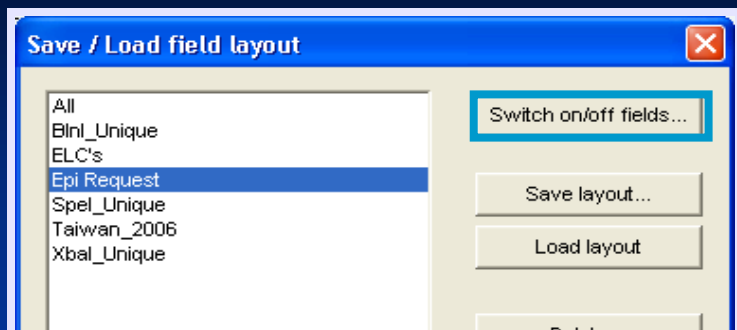
Modified layouts can be seen in all actions including Database screen, comparisons, and printouts



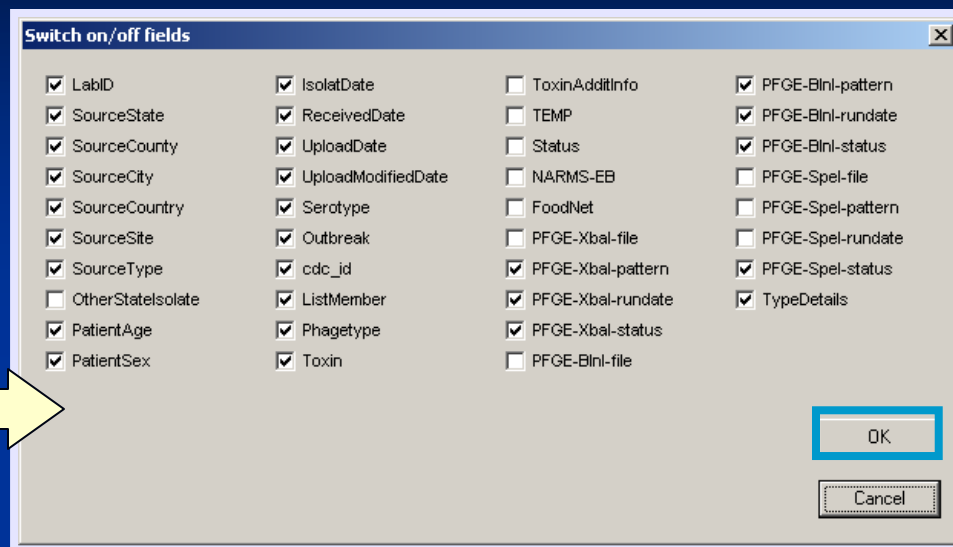
Click on “Switch on/off fields” to display information fields

Create Different layouts for:
Presentations, Reports, or Year-end reviews...etc.

Layouts

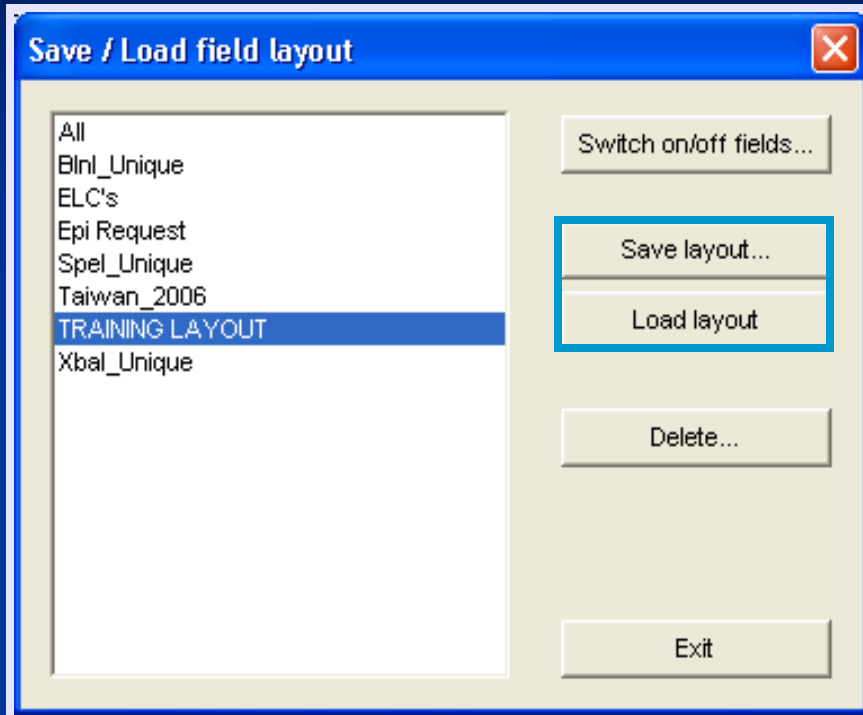


Click on “Switch on/off fields” to display information fields

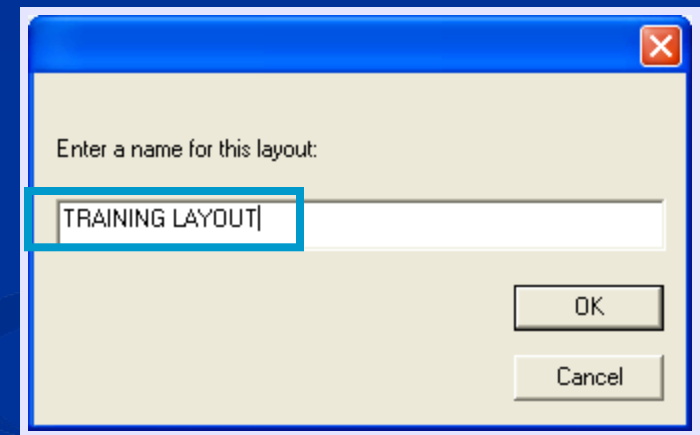


Check to select or deselect fields of interest
Click “OK”

Layouts



1. Click on “Save layout” to save the currently selected fields



2. Name layout

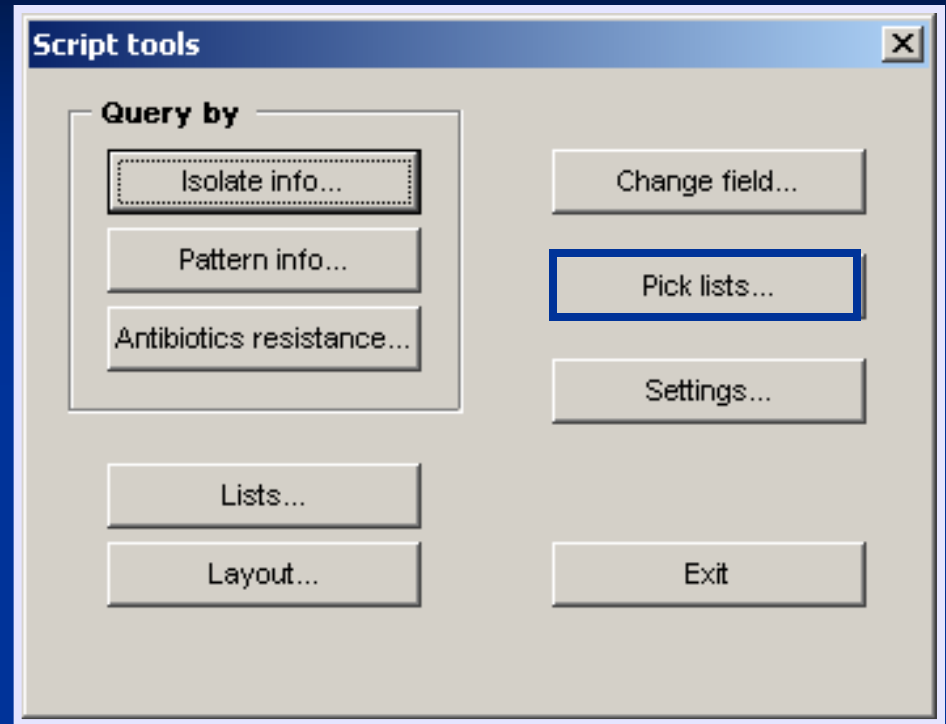
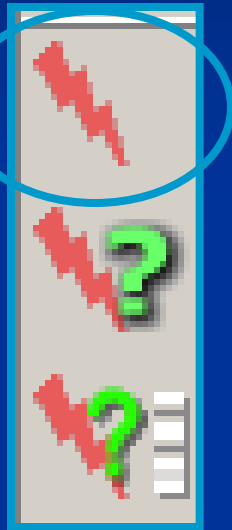
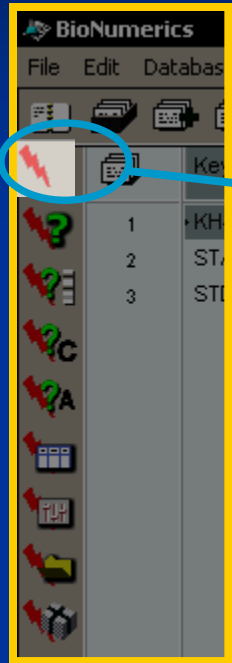
3. Load or Delete a saved layout

Useful when creating different reports that require different layouts

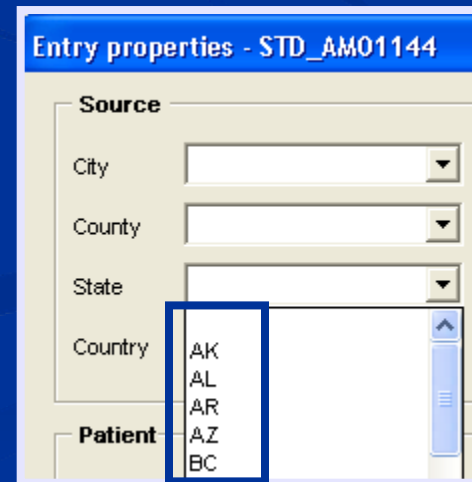
Overview

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Pick Lists



Pick lists: a list in a pull-down menu in the Entry Properties screen (“the green i”).



Pick Lists

You can add and/or delete items from several pick lists

Modify picklists

Country Add Delete Canada USA	State Add Delete AK AL AR AZ BC CA CO CT DE FL	County Add Delete	City Add Delete
Source Site Add Alfalfa Sprouts Blood CSF Factory swab Hamburger Lettuce Rectal Swab Serum Sputum Stool	TypeDetails Add Delete Bedding Bovine Canine Chicken Equine Feline Fence Goat Ovine Porcine	Outbreak Add Delete	Traveled_To Add Delete Canada Florida Hawaii Jamaica Mexico
Exposure Add Delete Almonds Cruise Ship Daycare Eggs Farm Petting zoo Reptiles Resort Restaurant School	Phagetype Add Delete		

OK Cancel

Pick Lists Fields

Country	Outbreak
State	Traveled To
County	Exposure
City	Phagetype
Source Site	Type Details

Overview

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Deleting Databases

The image shows a screenshot of the BioNumerics software interface. A yellow arrow points from the 'Delete database...' option in the context menu to a 'Warning' dialog box. The dialog box asks, 'Are you sure you want to remove the database 'DemoBase'?'. Below the dialog box, a file explorer window is open to the directory 'c://program files/bionumerics/data'. The file explorer shows a list of files and folders, with 'DemoBase.dbs' selected. A text box on the right side of the image contains the following text:

Be sure to also delete the coordinating ".dbs" file, which will be saved in the BN home directory

Database	Created	Comments
Campy NEW	2008-09-26 15:42	
Campy-client	2008-09-26 15:23	
Demobase 2D	2008-09-15 09:33	
DemoBase	2008-09-05 12:41	
Ecoli-client	2008-09-22 11:05	
Listeria-client		
MTDC Campy Admin		
MTDC Ecoli Admin		

Name	Size	Type	Date Modified
Salmonella_Jana		Folder	09/26/2008 12:41 PM
Script_Salmonella		Folder	
Test Campy Admin		Folder	
Test Salmonella Admin		Folder	
BNLOG.TXT		Text Document	
Campy NEW.dbs		Database	
Campy-client.dbs		Database	
Demobase 2D.dbs		Database	
DemoBase.dbs		Database	

Summary

- Database Settings and Layouts
 - Navigator Window Removal
 - Preferences
 - Fixed vs. Flexible Windows
 - Color and Font Options
 - Adding Database Fields
 - Freezing Panes
- Settings Menu
 - Directory Location
- Database Fields
 - Order
 - Active Fields: Comparison
- Layouts
- Pick lists
- Deleting Databases

Questions?



Thank you for your attention

The findings and conclusions in this presentation are those of the author and do not necessarily represent the views of the Centers for Disease Control and Prevention