

# Creation and File Location of PulseNet Bundle Files



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# Overview

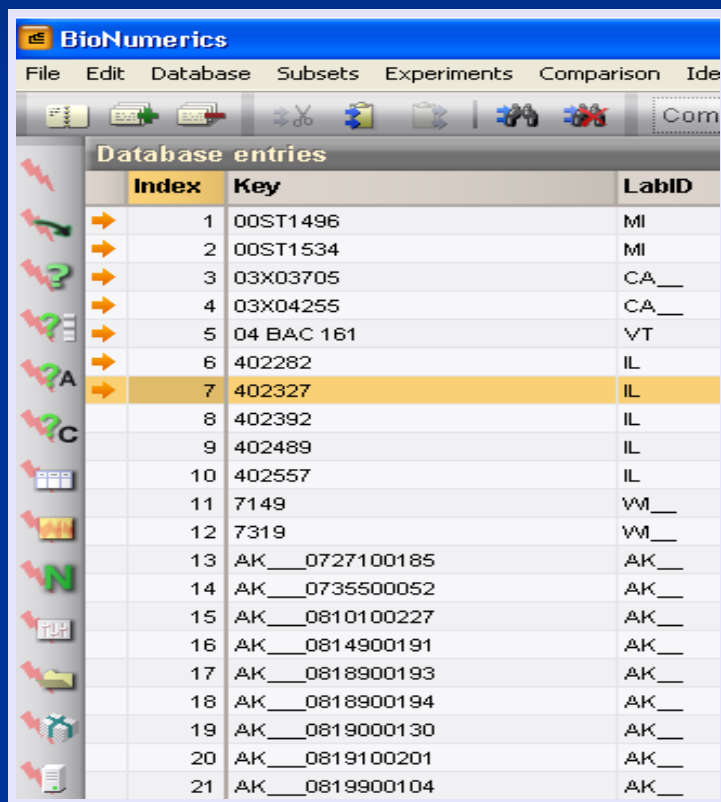
- Create a PulseNet Bundle File
- Bundle File Information Options
- Open a Bundle File
- Select Entries from Bundle Files

# What is a Bundle File?

- Allows you to view and compare an isolate from an external database within your database
- Only bundle file information fields can be modified. The original Tiff image cannot be opened or modified
- Automatically closed once you exit the database
- Bundle can be saved to always open inside the database by adding @\_ to the front of the file name

# Create a PulseNet Bundle File

## Step 1: Entry Selection



**BioNumerics**

File Edit Database Subsets Experiments Comparison Ide

Database entries

	Index	Key	LabID
	1	00ST1496	MI
	2	00ST1534	MI
	3	03X03705	CA__
	4	03X04255	CA__
	5	04 BAC 161	VT
	6	402282	IL
	7	402327	IL
	8	402392	IL
	9	402489	IL
	10	402557	IL
	11	7149	VM__
	12	7319	VM__
	13	AK__0727100185	AK__
	14	AK__0735500052	AK__
	15	AK__0810100227	AK__
	16	AK__0814900191	AK__
	17	AK__0818900193	AK__
	18	AK__0818900194	AK__
	19	AK__0819000130	AK__
	20	AK__0819100201	AK__
	21	AK__0819900104	AK__

### Selection Options:

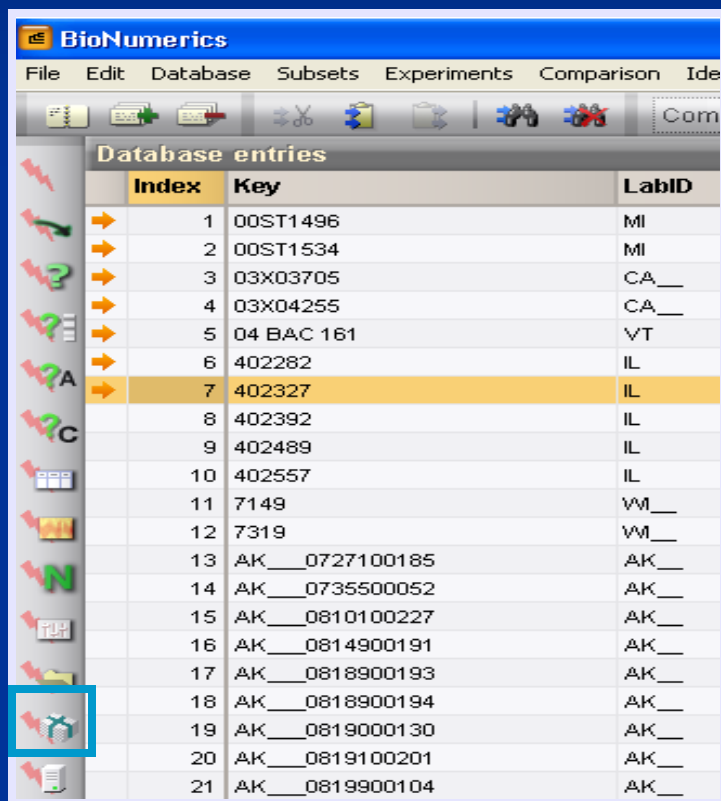
- Ctrl + left-click
- Shift + left-click
- Left click + space bar
- Query

# Create a PulseNet Bundle File

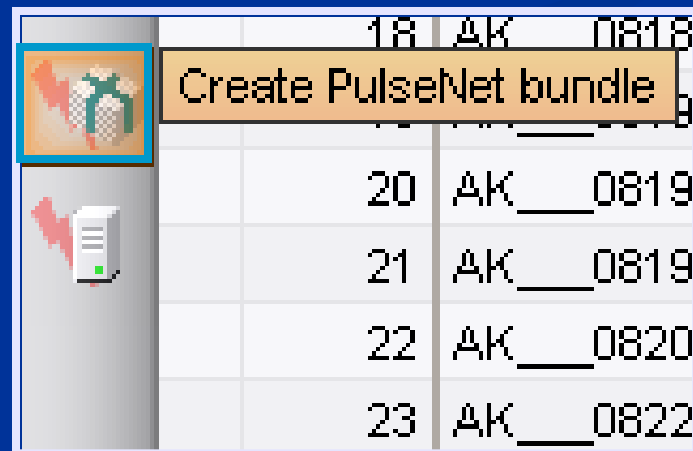
## Step 2 : Bundle File Creation

Click “create PulseNet bundle” icon

Note: Always use the PulseNet bundle icon



Index	Key	LabID
1	00ST1496	MI
2	00ST1534	MI
3	03X03705	CA__
4	03X04255	CA__
5	04 BAC 161	VT
6	402282	IL
7	402327	IL
8	402392	IL
9	402489	IL
10	402557	IL
11	7149	VM__
12	7319	VM__
13	AK__0727100185	AK__
14	AK__0735500052	AK__
15	AK__0810100227	AK__
16	AK__0814900191	AK__
17	AK__0818900193	AK__
18	AK__0818900194	AK__
19	AK__0819000130	AK__
20	AK__0819100201	AK__
21	AK__0819900104	AK__



Index	Key	LabID
18	AK__0818	
20	AK__0819	
21	AK__0819	
22	AK__0820	
23	AK__0822	

# Create a PulseNet Bundle File

## Step 3: Saving the Bundle File

**Create Bundle**

Select fields to include:

- ToxinAdditInfo
- TEMP
- Status
- NARMS-EB
- FoodNet
- PFGE-Xbal-file
- PFGE-Xbal-pattern
- PFGE-Xbal-rundate
- PFGE-Xbal-status
- PFGE-Blnl-file
- PFGE-Blnl-pattern
- PFGE-Blnl-rundate
- PFGE-Blnl-status
- PFGE-Spel-file
- PFGE-Spel-pattern
- PFGE-Spel-rundate
- PFGE-Spel-status
- VirulenceMarker

Select experiments to include:

- ☒ PFGE-Xbal
- ☒ PFGE-Blnl
- ☒ PFGE-Spel
- ☒ Antibio
- ☒ Biochem

File name:

OK Cancel

**Name the bundle according to the PulseNet guidelines**

**\*\*Be sure to check included experiments**

**Default has all fields selected. Particular fields can be deselected by holding ctrl + clicking**

# Create a PulseNet Bundle File

- PulseNet guidelines for naming a bundle file
  - Sample Bundle name: **LAC11001**  
This is the *first bundle* sent from **LA county** during 2011
  - Bundle numbers should increase with each one created, regardless of which database they are made for

**Note: Do not add “PN” to your bundle file name. It is automatically added once you save. This slide shows an example of what the finished file name will look like.**

# Opening a Bundle File

BioNumerics

File Edit Database Subsets Experiments Comparison Identification PulseNet Scripts Help Window

Complete view

**Database entries**

Index	Key	LabID	Serotype	PFGE-Xba	1	2	3	4	5
1	AL__AL-8002391-06	AL__	Javiana	JGGX01.0320	.				
2	AL__AL-8002392-06	AL__	Javiana	JGGX01.0783	.				
3	AL__AL-8002394-06	AL__	Javiana	JGGX01.0320	.				
4	AL__AL-8002395-06	AL__	Montevideo	JIXX01.0504	.				
5	AL__AL-8002441-06	AL__	Muenchen	JJ6X01.1059	.				
6	AL__AL-8002442-06	AL__	Javiana	JGGX01.0024	.				
7	AL__AL-8002443-06	AL__	Javiana	JGGX01.0012	.				
8	AL__AL-8002444-06	AL__	Typhimurium	JPXX01.0146	.				
9	AL__AL-8002445-06	AL__	Bareilly	JAPX01.0275	.				
10	AL__AL-8002446-06	AL__	Typhimurium	JPXX01.0010	.				
11	AL__AL-8002447-06	AL__	Montevideo	JIXX01.0482	.				
12	AL__AL-8002462-06	AL__	Javiana	JGGX01.0263	.				
13	AL__AL-8002466-06	AL__	I 4, [5], 12: b- L(+) tartr...	JKXX01.0014	.				
14	AL__AL-8002467-06	AL__	Typhimurium	JPXX01.2495	.				
15	AL__AL-8002468-06	AL__	Montevideo	JIXX01.0453	.				
16	AL__AL-8002470-06	AL__	Bareilly	JAPX01.0360	.				
17	AL__AL-8002473-06	AL__	Javiana	JGGX01.0012	.				
18	AL__AL-8002474-06	AL__	Typhimurium	JPXX01.0503	.				
19	AL__AL-8002475-06	AL__	Newport	JJPX01.0883	.				
20	AL__AL-8002476-06	AL__	Javiana	JGGX01.0339	.				
21	AL__AL-8002477-06	AL__	Group C2,eh	JAXX01.1447	.				
22	AL__AL-8002478-06	AL__	Montevideo	JIXX01.0273	.				
23	AL__AL-8002479-06	AL__	Javiana	JGGX01.0339	.				
24	AL__AL-8002481-06	AL__	Newport	JJPX01.0149	.				
25	AL__SALM07-280	AL__	Javiana	JGGX01.0800	.				
26	AL__SALM07-281	AL__	Javiana	JGGX01.0800	.				
27	AR__AR07000255	AR__	Newport	JJPX01.0765	.				
28	AR__AR07000272	AR__	Typhimurium	JPXX01.5118	.				
29	AR__AR07000279	AR__	Typhimurium	JPXX01.0560	.				
30	AR__AR07000280	AR__	Newport	JJPX01.0030	.				
31	AR__AR07000281	AR__	Typhimurium	JPXX01.0324	.				

**Experiments**

Name	Type	Order
1 PFGE-XbaI	Fingerprint types	1
2 PFGE-BlnI	Fingerprint types	2
3 PFGE-SpeI	Fingerprint types	3
4 antibio	Character types	4

**Files**

Name	Modified	Location
AL__AL06126	2006-09-29 09:17	Local
AL__AL06127	2006-09-29 09:17	Local
AL__AL06128	2006-09-29 09:17	Local
AL__AL06129	2006-09-29 09:17	Local
AL__AL06132	2009-04-08 10:04	Local
AR__AR06111	2006-09-29 09:17	Local

**Comparisons**

Name	Created	Modified
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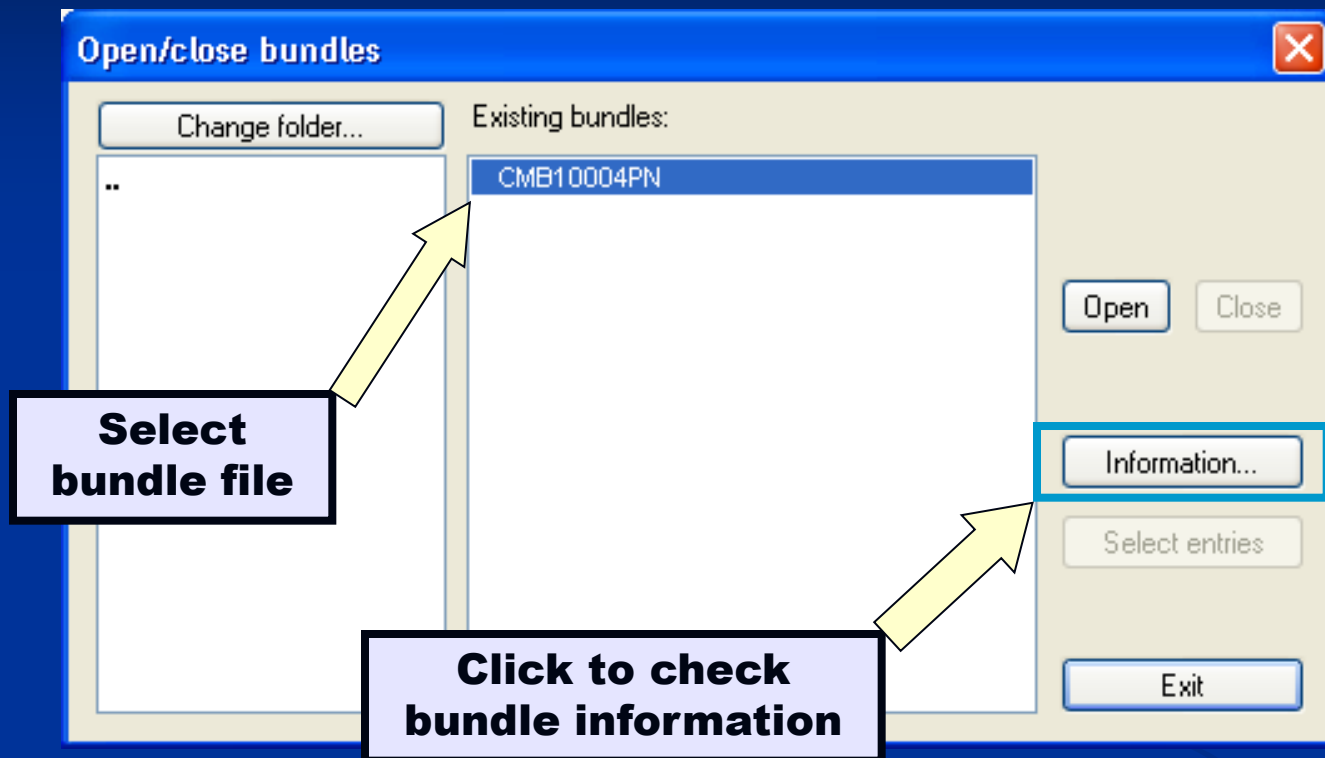
Database: 2011 Salmonella Training Client 1040 entries 5 experiments

\\cdc\project\CCID\_NCZVED\_DFBMD\_PulseNet\BioNumerics\Workshops\2011-04\_CDC\Databases\2011 Salmonella Training Client

Bundle Location



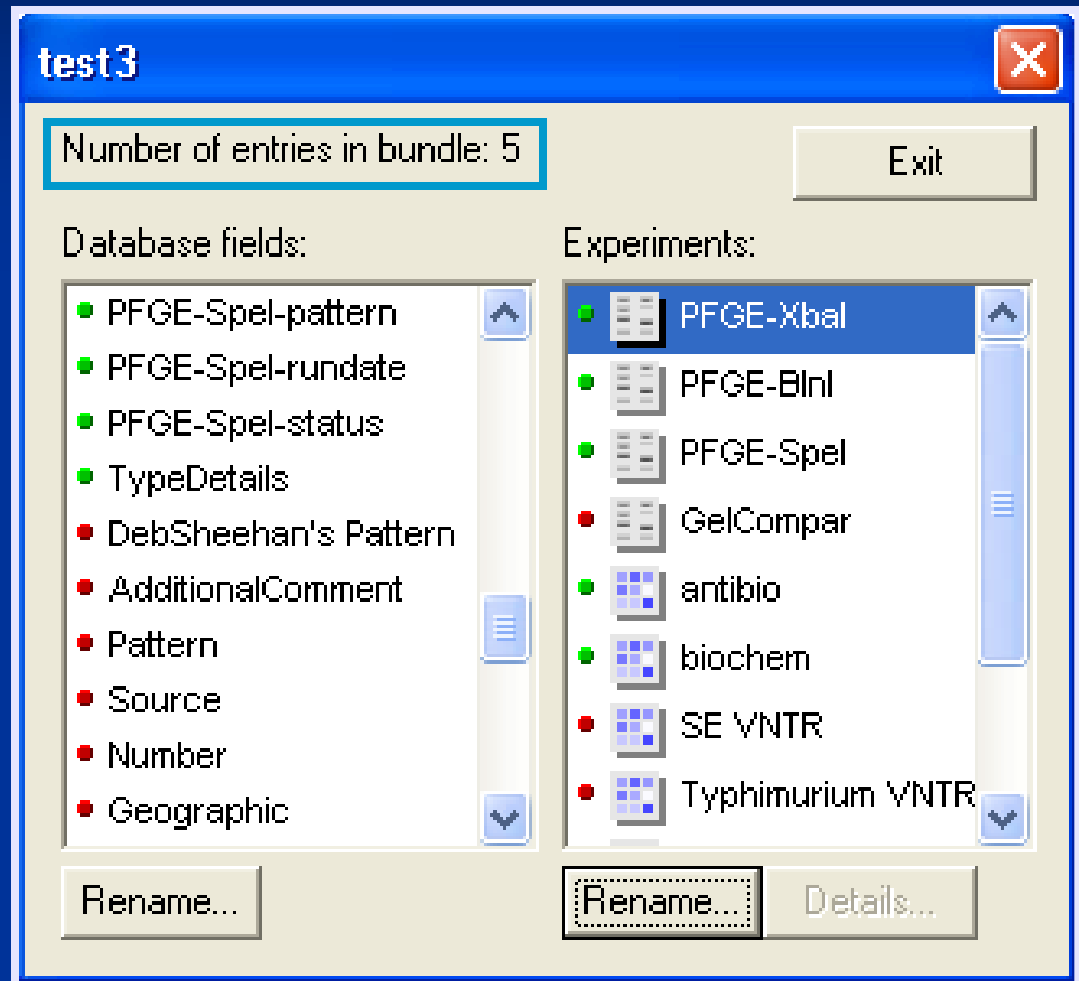
# Bundle File Information



**Recommendation:** ALWAYS check a bundle file's information before opening it. If it has extraneous fields, request a PulseNet bundle from the person from which you received the bundle file.

# Bundle File Information

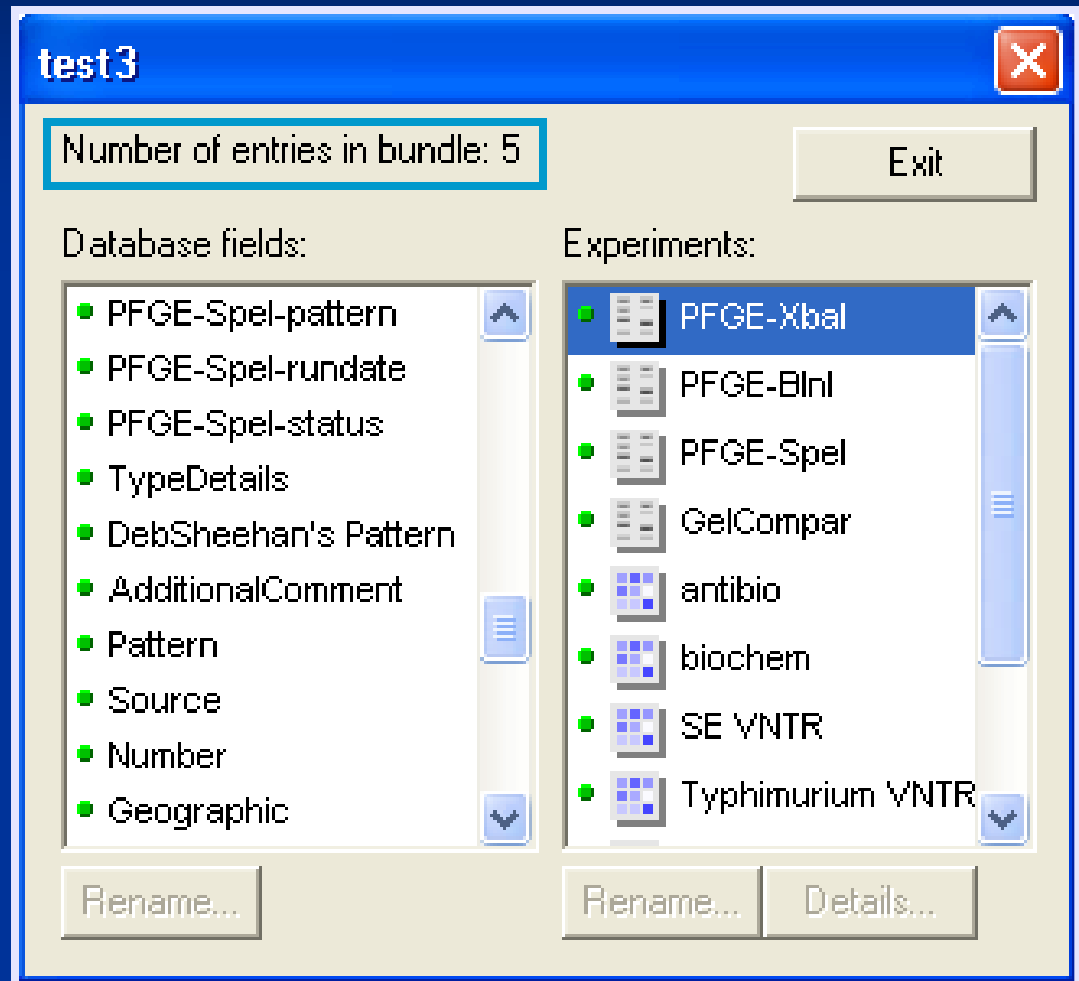
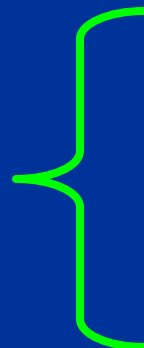
You will notice that the fields and experiments contained in the bundle file that are **NOT** in your database have a red dot by them



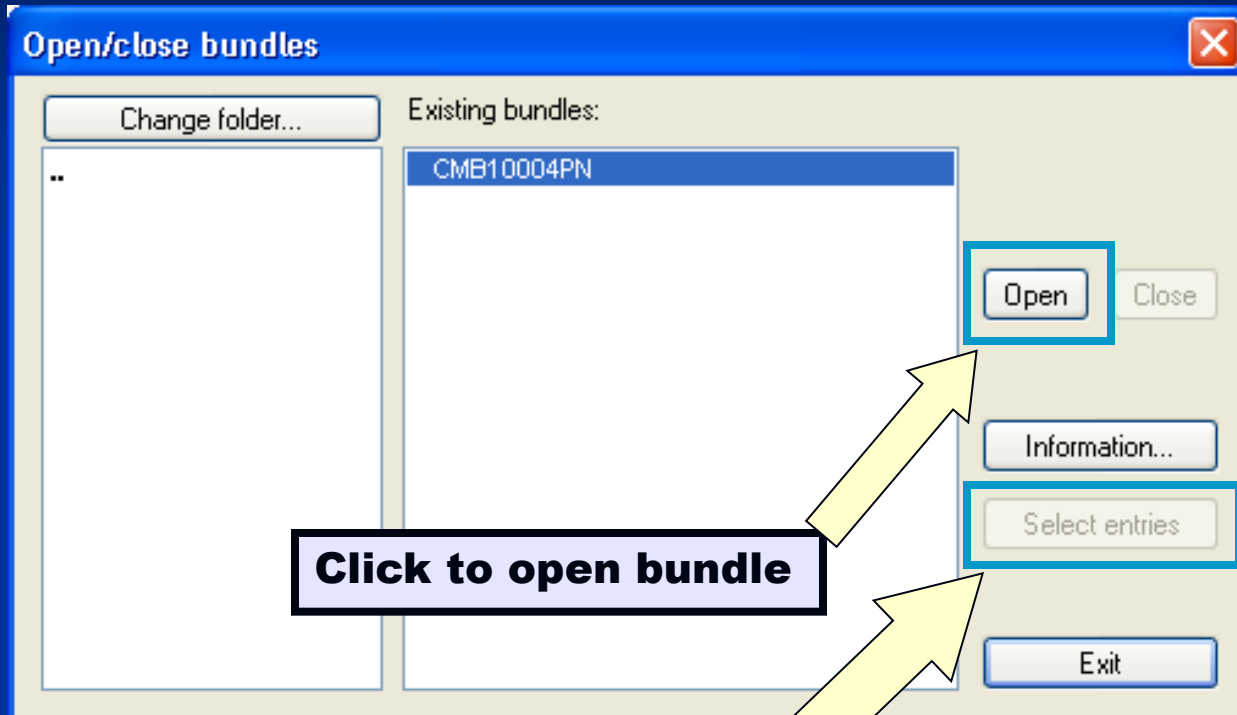
# Bundle File Information

If you decide to go ahead and open the non-PulseNet bundle anyway, the red dots will then be green the next time you look at the information.

This is because these fields and experiments have now been added to your database.



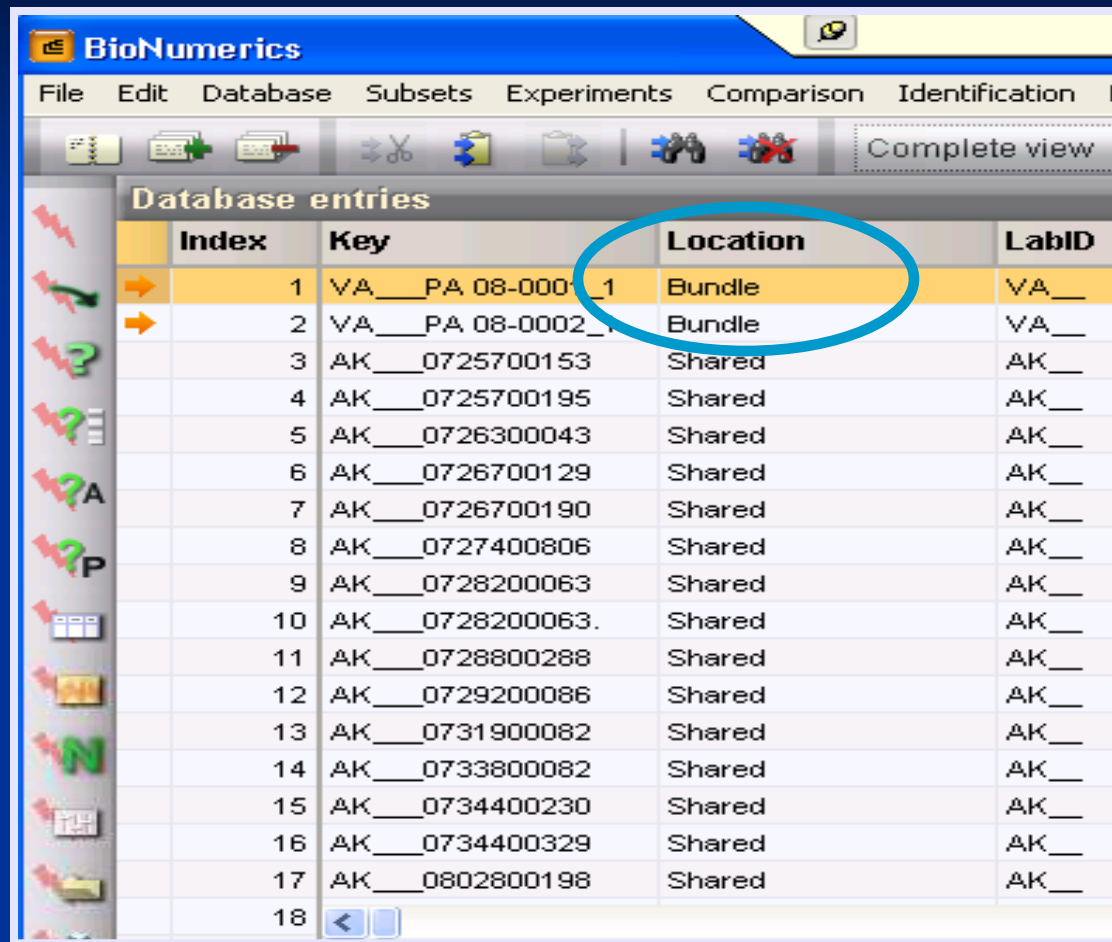
# Open a Bundle File



**Click to open bundle**

**Once opened,  
click "Select  
entries"**

# Select Entries from Bundle Files



The screenshot shows the BioNumerics software window. The menu bar includes File, Edit, Database, Subsets, Experiments, Comparison, Identification, and F. The toolbar contains various icons for file operations and analysis. The 'Database entries' table is displayed with the following columns: Index, Key, Location, and LabID. The 'Location' column is circled in blue, highlighting the first two rows which are labeled 'Bundle'.

Index	Key	Location	LabID
1	VA__PA 08-0001_1	Bundle	VA__
2	VA__PA 08-0002_1	Bundle	VA__
3	AK__0725700153	Shared	AK__
4	AK__0725700195	Shared	AK__
5	AK__0726300043	Shared	AK__
6	AK__0726700129	Shared	AK__
7	AK__0726700190	Shared	AK__
8	AK__0727400806	Shared	AK__
9	AK__0728200063	Shared	AK__
10	AK__0728200063.	Shared	AK__
11	AK__0728800288	Shared	AK__
12	AK__0729200086	Shared	AK__
13	AK__0731900082	Shared	AK__
14	AK__0733800082	Shared	AK__
15	AK__0734400230	Shared	AK__
16	AK__0734400329	Shared	AK__
17	AK__0802800198	Shared	AK__
18			

The Location field will show whether an isolate is included in a bundle

# Changing Field Layout

**BioNumerics**

File Edit Database Subsets Experiments Comparison Identification PulseNet Scripts Help Window

Complete view

Database entries

Key	Index	LabID	Serotype		1	2	3	4	5
AL__AL-8002475-06		19 AL__	Newport	JJP					
AL__AL-8002476-06		20 AL__	Javiana						
AL__AL-8002477-06		21 AL__	Group C2,eh	JAP					
AL__AL-8002478-06		22 AL__	Montevideo	JIX					
AL__AL-8002479-06		23 AL__	Javiana	JG					
AL__AL-8002481-06		24 AL__	Newport	JJP					
AL__SALM07-280		25 AL__	Javiana	JG					
AL__SALM07-281		26 AL__	Javiana	JG					
AR__AR07000255		27 AR__	Newport	JJP					
AR__AR07000272		28 AR__	Typhimurium	JPX					
AR__AR07000279		29 AR__	Typhimurium	JPX					
AR__AR07000280		30 AR__	Newport	JJP					
AR__AR07000281		31 AR__	Typhimurium	JPX					
AR__AR07000285		32 AR__	Newport	JJP					
AR__AR07000286		33 AR__	Newport	JJP					
AR__AR07000288		34 AR__	Javiana	JG					
AR__AR07000289		35 AR__	Javiana	JG					
AR__AR07000290		36 AR__	Javiana	JG					
AR__AR07000291		37 AR__	Newport	JJP					
AR__AR07000292		38 AR__	Newport	JJP					
AR__AR07000293		39 AR__	Newport	JJP					
AR__AR07000294		40 AR__	Javiana	JG					
AR__AR07000300		41 AR__	Newport	JJP					
AR__AR07000301		42 AR__	Newport	JJP					
AR__AR07000302		43 AR__	Typhimurium	JPX					
AR__AR07000304		44 AR__	Mississippi	JIP					
AR__AR07000305		45 AR__	Newport	JJP					
AR__AR07000306		46 AR__	Newport	JJP					
AR__AR07000307		47 AR__	Typhimurium	JPX					
AR__AR07000308		48 AR__	I 4,[5],12:i-	JPX					
AR__AR07000309		49 AR__	Typhimurium	JPX					

All levels

Database: 2011 Salmonella Training Client 1040 entries 5 experiments \cdo\project\CCID\_NCZVED\_DFBMD\_PulseNet\BioNumerics

**BioNumerics**

File Edit Database Subsets Experiments Comparison Ide

Complete view

Database entries

Key	Index	LabID		1	2	3	4	5
AL__AL-8002475-06		19 AL__						
AL__AL-8002476-06		20 AL__						
AL__AL-8002477-06		21 AL__						
AL__AL-8002478-06		22 AL__						
AL__AL-8002479-06		23 AL__						
AL__AL-8002481-06		24 AL__						
AL__SALM07-280		25 AL__						
AL__SALM07-281		26 AL__						
AR__AR07000255		27 AR__						
AR__AR07000272		28 AR__						
AR__AR07000279		29 AR__						
AR__AR07000280		30 AR__						
AR__AR07000281		31 AR__						
AR__AR07000285		32 AR__						
AR__AR07000286		33 AR__						
AR__AR07000288		34 AR__						
AR__AR07000289		35 AR__						
AR__AR07000290		36 AR__						
AR__AR07000291		37 AR__						
AR__AR07000292		38 AR__						
AR__AR07000293		39 AR__						
AR__AR07000294		40 AR__						
AR__AR07000300		41 AR__						
AR__AR07000301		42 AR__						
AR__AR07000302		43 AR__						
AR__AR07000304		44 AR__						
AR__AR07000305		45 AR__						
AR__AR07000306		46 AR__						
AR__AR07000307		47 AR__						
AR__AR07000308		48 AR__						
AR__AR07000309		49 AR__						

All levels

Database: 2011 Salmonella Training Client 1040 entries 5 exp

Restore default settings  
Find in table...  
Copy content to clipboard

- ✓ Key
- Level
- Location
- ✓ Index
- Attachments
- ✓ LabID
- ✓ SourceCountry
- ✓ SourceState
- ✓ SourceCounty
- ✓ SourceCity
- ✓ SourceSite
- ✓ SourceType
- ✓ PatientAge
- ✓ PatientSex
- ✓ IsolatDate
- ✓ ReceivedDate
- ✓ UploadDate
- ✓ UploadModifiedDate
- ✓ AntigenForm
- ✓ Serotype
- ✓ Outbreak
- TEMP
- ✓ NARMS-EB
- ✓ PFGE-XbaI-file
- ✓ PFGE-XbaI-pattern
- ✓ PFGE-XbaI-status
- ✓ PFGE-BlnI-file
- ✓ PFGE-BlnI-pattern
- ✓ PFGE-BlnI-status
- ✓ PFGE-SpeI-status
- ✓ TypeDetails
- ✓ Subspecies
- ✓ OGroup
- ✓ OtherStateIsolate
- ✓ Phagetype
- ✓ Traveled\_To
- cdc\_id
- Exposure

Hold ctrl and use left and right arrow keys to rearrange fields

# 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

# Exercise 3