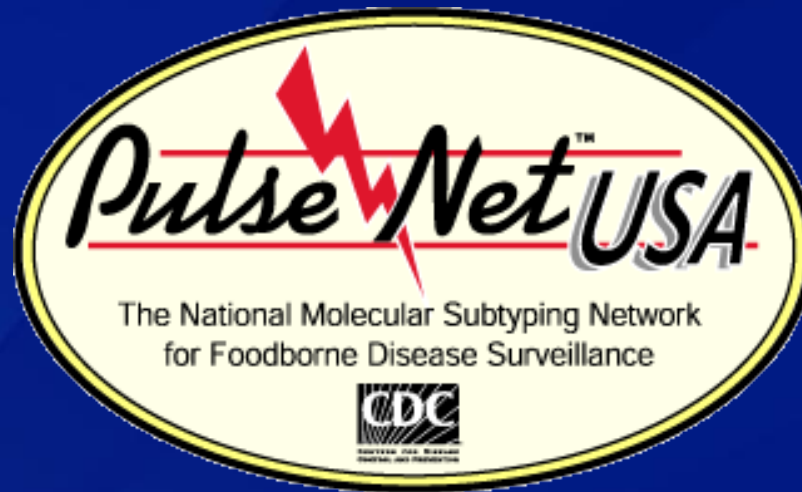


PulseNet Database Team Updates and Reminders



16th Annual PulseNet Update Meeting
August 2012

Objectives

■ SharePoint:

- Accessing
- Overview
- Reminders
- Upgrade to 2010

■ PulseNet CDC Updates:

- Pattern Naming Priorities
- Re-uploading Guidance
- MasterScripts 6.0
 - Merging MLVA and PFGE Data
- BioNumerics 6.6 Upgrade
- Updates and Reminders
- Contacts

SharePoint: Reasons for Using

- **Detecting Clusters/Outbreaks**
- **Following Outbreak Investigations**
 - Lab Updates
 - Epi Updates
- **Comparing Patterns**
- **Reading Important Documents**
 - QA/QC Manual
 - Publications
 - Active cluster reports
 - Weekly cluster bundle files
 - Pattern changes
 - Weekly Epi Report
- **Accessing Troubleshooting Information**

Please utilize these tools weekly to reduce your workload

SharePoint: Obtaining Access

- SharePoint is administered through the CDC Public Health Partner Portal
- Laboratorians: request access by sending an e-mail to **PFGE@cdc.gov**
- Epidemiologists: request access by sending an e-mail to **outbreakresponse@cdc.gov**
- In the e-mail, please provide:
 - First and last name
 - E-mail address
 - Primary phone number
 - Organization
 - Job title
 - Work address

SharePoint: Logging In

CDC Centers for Disease Control & Prevention
Partner SharePoint Web Access

Security ([show explanation](#))

This is a public or shared computer
 This is a private computer

Warning: By selecting this option you acknowledge that the computer complies with your organization's security policy.

username:




Password:

Conditions of Use and Logon

- You are accessing a US. Government information system, which includes (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices and storage media attached to this network or to a computer on this network. This information system is provided for US. Government-authorized use only. Unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties. By using this information system, you understand and consent to the following:
 - You have no reasonable expectation of privacy regarding any communication or data transiting or stored on this information system. At any time, and for any lawful government purpose, the government may monitor, intercept, and search and seize any communication or data transiting or stored on this information system.
 - Any communication or data transiting or stored on this information system may be disclosed or used for any lawful Government purpose.
 - Use of this system requires adherence to Section 508 of the Rehabilitation Act (29 USC 794d) in the development or distribution of electronic materials. [ESI1]

- Selecting shared computer as your login option will put a time limit on SharePoint inactivity
- Selecting private computer option will not impose a time limit
- **We recommend selecting the private option**

SharePoint: Changing Your Password

 Centers for Disease Control & Prevention
 Partner SharePoint Web Access 

You could not be logged on. Use the cdcpartners\ in front of the user name, and correct password , and then try again. If you have forgotten your user name or password click on the link below:

<https://Change or reset password>

Security (show explanation)

This is a public or shared computer
 This is a private computer

username:

Password:

Conditions of Use and Logon



- You are accessing a US. Government information system, which includes (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices and storage media attached to this network or to a computer on this network. This information system is provided for US. Government-authorized use only. Unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties. By using this information system, you understand and consent to the following:
 - You have no reasonable expectation of privacy regarding any communication or data transiting or stored on this information system. At any time, and for any lawful government purpose, the government may monitor, intercept, and search and seize any communication or data transiting or stored on this information system.
 - Any communication or data transiting or stored on this information system may be disclosed or used for any lawful Government purpose.
 - Use of this system requires adherence to Section 508 of the Rehabilitation Act (29 USC 794d) in the development or distribution of electronic materials. [ESI1]

- Passwords expire every 90 days for external partners
- To change your password, click the log on button without entering your credentials
- Click the “https://Change or reset password” link

SharePoint: Changing Your Password





Enter Your User Name
To verify your identity, type your user name, and then click OK.

User name:

Enter the characters you see on the picture:

Welcome, Daniele Fallin . If you are not Daniele Fallin , [click here.](#)
Register with Password Manager by creating your Questions and Answers profile and use the tools below to manage your passwords and unlock your account.

	Forgot My Password	Set your new password by answering a series of private questions.
	Manage My Passwords	If you know your current password, you can securely change all your passwords.
	My Questions and Answers Profile	Configure your personal Questions and Answers profile that will allow you to reset your forgotten password or unlock your account in the future.
	My Alerts	Select events that you want to be notified about, such as when your password was changed or your account was locked.

- Enter username (without cdcpartners\) and the displayed characters
- Click on the “Forgot My Password” button

PulseNet and OutbreakNet SharePoint Site Information

NCEZID > PulseNet

Welcome

All Sites

Site Actions

PulseNet

View All Site Content

Documents

- Library of PulseNet Documents
- Library of OutbreakNet Documents

Announcements

- PulseNet Announcements
- OutbreakNet Announcements

Discussions

- 2012 Update Meeting
- E. coli
- Listeria
- Salmonella
- Campylobacter
- Botulism
- Shigella
- Vibrio
- Other Organisms
- Unknown Etiology Illness
- GI Viruses/Norovirus
- Regulatory Issues/Public Policy
- Troubleshooting BioNumerics
- Troubleshooting Lab
- SharePoint Comments

Subsites

- 2012 Update Meeting Agenda Committee Subsite
- PulseNet Area Labs Subsite
- PulseNet Northeast Regional Workgroup Subsite

PulseNet.

Password Change Requirement

Library of Documents: CDC Document Sharing least every 90 days.

Announcements: Important News ... of emergent disease clusters and ongoing outbreak investigations.

Therefore, SharePoint postings are not appropriate for sharing with persons outside public health and food regulatory agencies. If you would like to share SharePoint messages with persons not directly associated with public health or food regulatory agencies, we require that you obtain prior approval from the person or agency that posted the information.

We would appreciate your strict compliance with this policy. Violation of this policy will result in loss of access to the PulseNet and OutbreakNet SharePoint website.


Thank you for your cooperation.


Discussions: Investigation details, questions...

PulseNet and OutbreakNet Calendar

8/27/2012 12:00 AM	16th Annual PulseNet Update Meeting and 8th Annual OutbreakNet Conference
9/3/2012 12:00 AM	Federal Holiday - Labor Day
10/8/2012 12:00 AM	Federal Holiday - Columbus Day
11/12/2012 12:00 AM	Federal Holiday - Veterans Day
11/22/2012 12:00 AM	Federal Holiday - Thanksgiving Day
12/25/2012 12:00 AM	Federal Holiday - Christmas Day

Subsites: NDA, Specific groups collaborations

PulseNet USA
The National Molecular Subtyping Network for Foodborne Disease Surveillance


OUTBREAKNET


Important websites

- CDC
- PulseNet
- OutbreakNet
- Association of Public Health Laboratories
- PulseNet International
- 16th Annual PulseNet Update Meeting and 8th Annual OutbreakNet Conference
- PulseNet/OutbreakNet SharePoint Training Video

PulseNet and OutbreakNet SharePoint Training Video

User Settings: Setting and deleting e-mail alerts

Search SharePoint Site

The screenshot displays the PulseNet and OutbreakNet SharePoint site. The top navigation bar includes the PulseNet logo and a search box. The left sidebar contains a navigation menu with categories: Documents, Announcements, and Discussions. The main content area features a 'Password Change Requirement' section with a red warning: 'Passwords expire every 90 days for External Partners (non-CDC staff). You will be required to change your password at least every 90 days.' Below this is a section titled 'PulseNet and OutbreakNet SharePoint Policy on Sharing Information', which states that SharePoint postings contain preliminary information and require prior approval for sharing. A 'PulseNet and OutbreakNet Calendar' section lists upcoming events, including the 16th Annual PulseNet Update Meeting and 8th Annual OutbreakNet Conference on 8/27/2012. The right side of the page features the PulseNet USA logo (The National Molecular Subtyping Network for Foodborne Disease Surveillance) and the OutbreakNet logo. A yellow-bordered box on the right lists 'Important websites' with links to CDC, PulseNet, OutbreakNet, Association of Public Health Laboratories, PulseNet International, 16th Annual PulseNet Update Meeting and 8th Annual OutbreakNet Conference, and PulseNet/OutbreakNet SharePoint Training Video. A yellow-bordered box at the bottom right highlights the 'PulseNet/OutbreakNet SharePoint Training Video' link.

Important Website Links & SharePoint Training Video



SharePoint: Reminders

SharePoint interface for PulseNet, showing the 'New Item' form for 'E. coli'. The form includes fields for 'Subject *', 'Body', 'Cluster Status', and 'Interest *'. The 'Cluster Status' field is highlighted with a yellow box, and the 'Interest *' field is also highlighted. Two blue arrows point from the text on the right to these fields.

Remember to include the following:
Isolate number
Lane information
Date collected
Date received
Frequency of occurrence in database
Epi info (e.g. age, sex, vehicle)
Epi contact info

Cluster Status should **ONLY** be entered by CDC

Interest should be entered by lab for: lab, epi, or both

SharePoint: Reminders

NCEZID > DFWED Welcome

PulseNet

DFWED | Biostatistics and Information Management Branch | Enteric Diseases Epidemiology Branch | **Enteric Diseases Laboratory Branch** | Mycotic Diseases Branch | Outbreak Response and Prevention Branch | Waterborne Diseases Prevention Branch













DFWED > Enteric Diseases Laboratory Branch > PulseNet > People and Groups > User Information > My Alerts on this Site > New Alert

New Alert

Use this page to select a list or library to be alerted about. Alerts are a great way to stay updated as items are added, changed, or removed. [View my existing alerts on this site.](#)

Choose a List or Document Library

Select a list or document library that you want to keep track of. You may also view the contents of a list and then track one of the individual items. After creating an alert, you'll receive e-mail notifying you of changes.

-  **CMP**
View this list...
-  **Library of OutbreakNet Documents**
Library of OutbreakNet Documents View this list...
-  **Library of PulseNet Documents**
Document Library for PulseNet Documents View this list...
-  **Shared Documents**
Share a document with the team by adding it to this document library. View this list...
-  **2012 Update Meeting**
Discussion board for 2012 PulseNet/OutbreakNet Update Meeting View this list...
-  **Botulism**
Discussion Board for Botulism View this list...
-  **Calendar**
Use the Calendar list to keep informed of upcoming meetings, deadlines, and other important events. View this list...
-  **Campylobacter**
Discussion board for Campylobacter View this list...
-  **E. coli**
Discussion board for E. coli View this list...
-  **Troubleshooting Lab**
Discussion board for Troubleshooting Lab View this list...
-  **Unknown Etiology Illness**
Discussion board for Unknown Etiology Illness View this list...
-  **Vibrio**
Discussion board for Vibrio View this list...

An Alert must be setup for every Discussion you want to receive e-mail notifications for



SharePoint: Reminders

NCEZID > PulseNet

Welcome

PulseNet

PulseNet > Listeria

Listeria

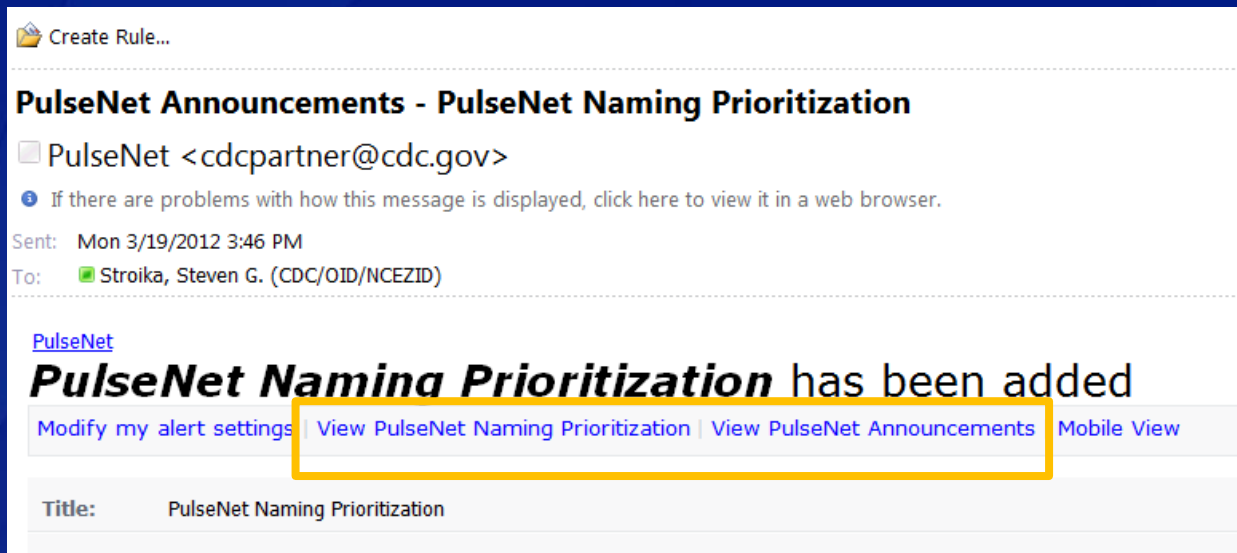
Discussion board for Listeria

ID	Subject	Reply	Replies	Created By	Created	Last Updated	Cluster Status	Interest
51	(GX6A16.0098/GX6A12.0069)_Listeria cluster in Michigan	Reply	1	Joseph, Lavin (CDC/OID/NCEZID)	8/10/2012 1:02 PM	8/10/2012 1:09 PM	Active (PN)	Both
39	1208MAGX6-1 (GX6A16.0134/GX6A12.0863)_MA_LM	Reply	3	Joseph, Lavin (CDC/OID/NCEZID)	7/30/2012 9:49 AM	8/10/2012 12:55 PM	Active (PN)	Both
35	1207PAGX6-1 (GX6A16.0408/GX6A12.0096)_PA_LM_Listeriosis linked to cheese in Pennsylvania	Reply	7	Joseph, Lavin (CDC/OID/NCEZID)	7/20/2012 12:31 PM	8/10/2012 8:32 AM	Active	Both
31	(GX6A16.0026/GX6A12.0094)_Listeria from Queso Fresco	Reply	1	Joseph, Lavin (CDC/OID/NCEZID)	7/5/2012 3:59 PM	7/5/2012 4:08 PM	Active (PN)	Both
26	(GX6A16.0020/GX6A12.0227)_Listeria in Los Angeles County	Reply	1	Joseph, Lavin (CDC/OID/NCEZID)	7/3/2012 2:15 PM	7/3/2012 2:19 PM	Active (PN)	Both
22	(GX6A16.0001/GX6A12.0001)_Listeria in Oklahoma	Reply	3	Joseph, Lavin (CDC/OID/NCEZID)	6/15/2012 2:54 PM	7/27/2012 7:13 PM	Active (PN)	Both
19	1206NYGX6-1 (GX6A16.0024/GX6A12.0112)_CDC_LM	Reply	2	Joseph, Lavin (CDC/OID/NCEZID)	6/2/2012 7:09 PM	8/3/2012 2:32 PM	Closing Soon	Both
17	(GX6A16.0022/GX6A12.0028)_VA_Listeria_monocytogenes	Reply	1	Lauren Turner	5/14/2012 12:13 PM	5/16/2012 4:08 PM	Active (PN)	Both

SPECIFIC SUBJECT ALERTS CAN BE SET UP IF YOU ARE NOT SUBSCRIBED TO THE DISCUSSION FORUM

SharePoint: Reminders

- You will be notified via e-mail when a posting is made to a topic (based on how you set up your alerts)
- If you'd like to reply, please log directly into SharePoint
- You can navigate to the site by choosing a View option
- **DO NOT** reply to the e-mail message!



SharePoint: Reminders

SharePoint PulseNet interface showing an email reply form for "E. coli: New Item". The form includes a subject line, a body text area with a rich text editor, and several dropdown menus for "Cluster Status" and "Interest". A blue arrow points to the body text area with the text "WHEN REPLYING, DELETE THE ORIGINAL MESSAGE".

Subject: 1110EXH-1 (EXHX01.2345/EXHA26.1234)_E. coli O157:H7

We are following a cluster of 5 E. coli O157:H7 indistinguishable by XbaI/BlnI associated with a child care center. Person to person transmission is suspected as the mode. Four of the cases are male and 4 cases are between the ages of 2 to 5 years. One case is an adult. Onset dates range from 9/23 to 10/2 and three of the cases report hospitalization, and one case has developed HUS. The epi investigation continues.

Remember to include the following:

- Isolate number
- Lane information
- Date collected
- Date received
- Frequency of occurrence in database
- Epi info (e.g. age, sex, vehicle)
- Epi contact info

Cluster Status: PulseNet Cluster Status

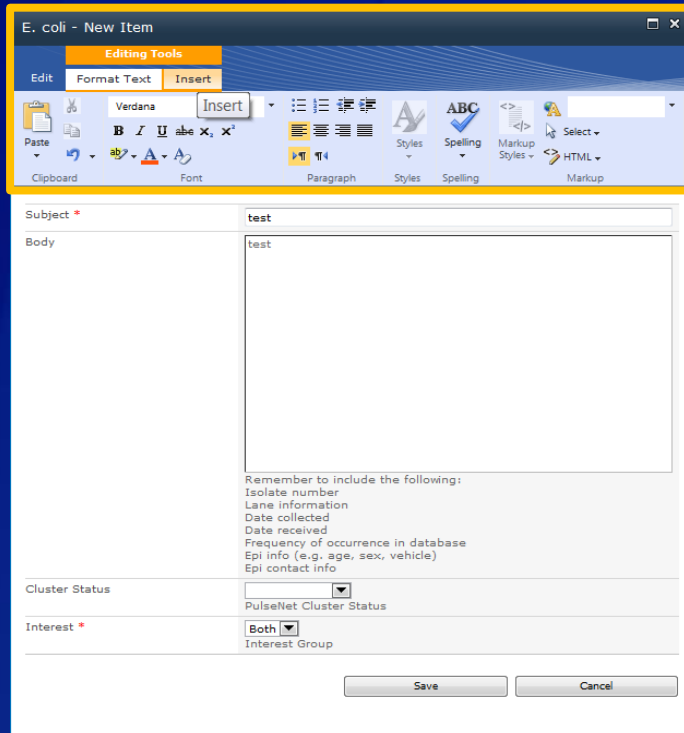
Interest*: Both

Interest Group

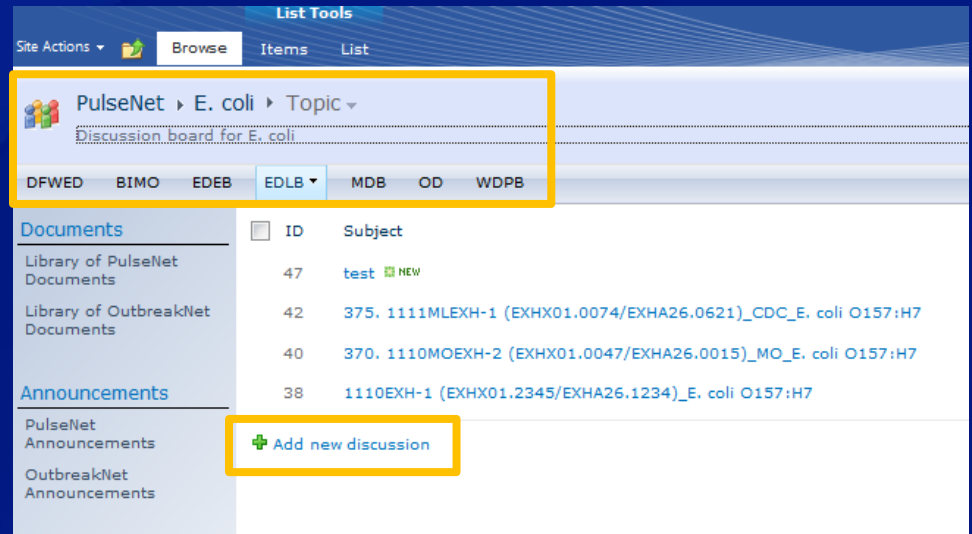
SharePoint: Reminders

- **SharePoint should be used as the primary means of communication for outbreak investigations, updates, and announcements**
- **Please do not check out documents from SharePoint**
- **Please do not post pattern names to SharePoint. Pattern names are verified and posted by CDC**
- **When performing local cluster searches, remember that only patterns that are above baseline and/or have an epi link should be posted to SharePoint**

SharePoint: Version 2010 Upgrade



Like other MS Office 2010 programs, SharePoint will now utilize the Ribbon feature for options



- Navigation “Breadcrumb” will look slightly different
- ‘Add new discussion’ will be located at the bottom of the discussion board instead of toolbar along the top

CDC Updates: Pattern Naming Priorities

■ **STEC/*Listeria***

- All *E. coli* and *Listeria* uploads are named
- Uploads of STEC without serogroup information may not be named if they do not match an existing pattern

■ ***Salmonella***

- Routinely naming top 20-30 serotypes
- Requests for patterns outside the top 20-30 to be named will be prioritized
- Continue to post clusters to SharePoint even if the serotype is not routinely being named
- A weekly cluster search is performed to monitor unnamed serotypes
- *Bln1* patterns are not routinely named, except in outbreak investigations
- Requests for *Bln1* patterns to be named will be prioritized

CDC Updates: Re-uploading

- **Re-uploading a PFGE image to the PulseNet National databases**
 - Always contact PulseNet before re-uploading a tiff to the national database
 - You can either call (404) 639-4558 or send an email to pfge@cdc.gov and include the organism and serotype in the subject line, and include the tiff and key number of the pattern to replace
 - PulseNet will unlink the entry from the previous tiff and will let you know when it is ok to re-upload
 - Contact PulseNet again after re-uploading, and we will confirm that the pattern is linked correctly

- **Deleting an Isolate in Your Local Database**
 - This will not affect the national database
 - Re-uploading the entry will cause the entry to be linked incorrectly in the national database

CDC Updates: Re-uploading

■ Uploading Serotype Information

- Updated serotypes should be uploaded to the National Databases
- If a pattern remains unnamed after uploading serotype information, please contact PulseNet (only for all STEC and regularly named *Salmonella* serotypes)
- Remember to always upload all original lanes on the tiff, not just the lanes that are updated

■ Updates to Demographic Data

- It is not necessary to contact PulseNet if you are only updating demographic data other than serotype
- Remember to always upload all original lanes on the tiff, not just the lanes that are updated

CDC Updates: MasterScripts 6.0

- **To be distributed this year**
 - Serotypes to be added to drop down menus
 - *Shigella flexneri* database scripts
- **Currently working on combining PFGE and MLVA *E. coli* databases**
 - PFGE and MLVA data will be uploaded to the *E. coli* National Database
 - Key numbers should be the same for PFGE and MLVA in order for entries to link correctly

CDC Updates: Upgrading to BioNumerics 6.6

- Database team currently uses version 5.01
- CDC PulseNet plans to upgrade in 2012
- Labs can upgrade at their own discretion
 - Labs with a connected database should contact CDC PulseNet before upgrading
- **Version 6.6 differences:**
 - Importing
 - Additional panels, buttons, and some menu options have been relocated
 - Dendrograms
 - Charts and Statistics

CDC Updates: Upgrading to BioNumerics 6.6

■ Importing

- Import icon has been added to the toolbar
- If a null value is present on your spreadsheet data will not import
- Recommend using ODBC link under the Database pull-down menu
 - If importing from Excel sheet names will automatically populate



■ Additional Toolbars/Panels

- Go to Window and choose Show/hide panels and toolbars to change views

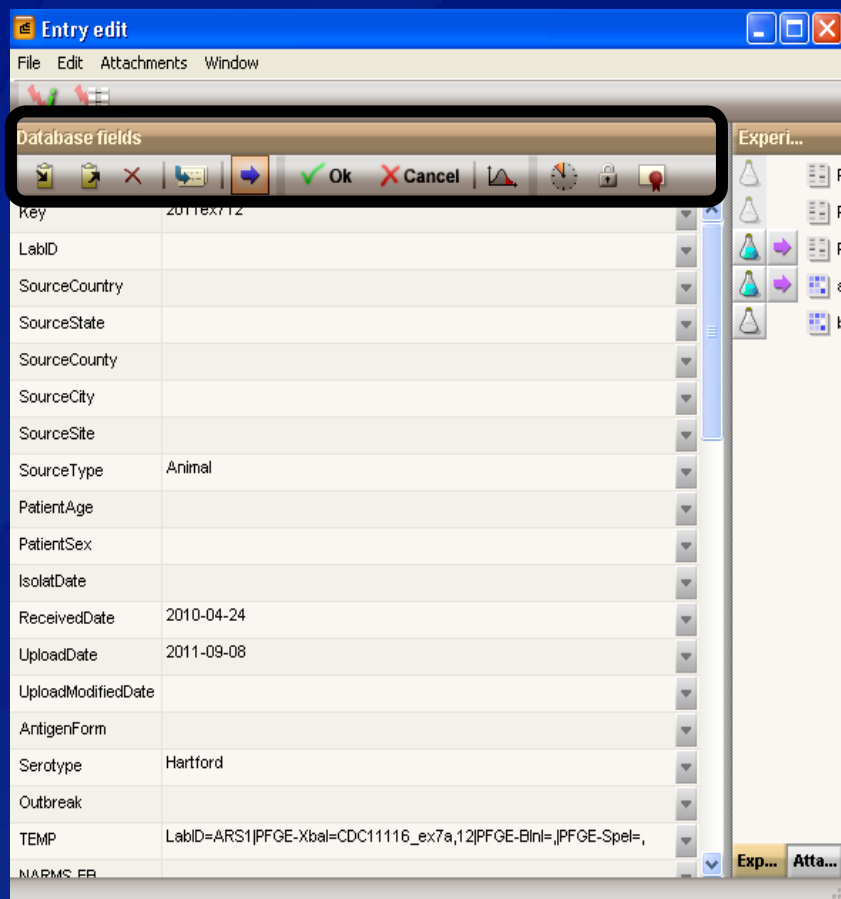
The screenshot shows the BioNumerics 6.6 software interface. The 'Window' menu is open, showing options like 'Lock configuration', 'Restore default configuration', 'Save current configuration', and 'Recall saved configuration'. Below these are 'Show / hide panels' and 'Show / hide toolbars'. A sub-menu is open under 'Show / hide panels', listing various panels such as 'Database', 'Edit', 'Subsets', 'Database Sharing Tools', 'Analysis', 'Scripts', 'Help', and 'Import'. The 'Import' option is checked. The main window displays a table of database entries with columns for Key, LabID, SourceCountry, and SourceState. The status bar at the bottom indicates the current database is '2011 Salmonella Training Client' and shows 5 experiments loaded.

Key	LabID	SourceCountry	SourceState
2011ex702			
2011ex702b			
2011ex702c			
2011ex703			
2011ex703b			
2011ex703c			
2011ex704			
2011ex704b			
2011ex704c			
2011ex705			
2011ex705b			
2011ex705c			
2011ex707			
2011ex707b			
2011ex707c			
2011ex708			
2011ex708b			
2011ex708c			
2011ex709			
2011ex709b			
2011ex709c			
2011ex711			
2011ex711b			
2011ex712			
2011ex712b			
2011ex713			
2011ex713b			
2011ex714			
2011ex714b			
en74			

CDC Updates: Upgrading to BioNumerics 6.6

■ Additional quick launch icons

- Entry edit window can now launch charts and statistics



CDC Updates: Upgrading to BioNumerics 6.6

■ Additional quick launch icons

- Comparison window now has quick launch icons to use

Comparison

File Edit Layout Groups Clustering Statistics Fingerprints Characters Sequence TrendData Composite Window

PFGE-Xbal

Experiments

- PFGE-Xbal
- PFGE-BlnI
- PFGE-Spel
- antibio
- biochem

Analyses

Name

- PFGE-Xbal

Groups

Size	Name
0	
0	
0	
0	

Dendrogram

PFGE-Xbal

60 80 100

Experiment data

Information fields

Key	LabID
2011ex713	
2011ex714	
2011ex706	
2011ex707	
2011ex711	
2011ex709	
2011ex712	
2011ex708b	
2011ex709b	
2011ex711b	
2011ex712b	
2011ex713b	
2011ex706b	
2011ex707b	
2011ex714b	
2011ex704b	
2011ex708	

Similarities

PFGE-Xbal

0 20 40

CDC Updates: Upgrading to BioNumerics 6.6

■ Dendrograms

Comparison settings

Page 1
Similarity coefficient

Curve based

- Pearson correlation
- Cosine coefficient
- Ranked Pearson correlation
- Including errors
- Weighted Pearson correlation

Band based

- Jaccard
- Dice**
- Jeffrey's X
- Ochiai
- Number of different bands

Optimization: 1.5 %

Band filtering

Minimum height: 0 %

Minimum surface: 0 %

Band matching

Tolerance: 1.5 %

Tolerance change: 0 %

Uncertain bands: Ignore

Relaxed doublet matching

Area sensitive Fuzzy logic

Save as new default to database

< Back Next > Cancel

- Creating dendrograms is a two step process
- Default settings have not changed

Comparison settings

Page 2
Cluster analysis

Method

LUPGMA

Ward

Neighbor Joining

Single linkage

Complete linkage

Create graph

Degeneracy handling

Enable degeneracy handling

Secondary criterion: Do not use

Degeneracy: Do not calculate

Cut off above: %

Calculate error flags Calculate cluster cutoff

Branch quality: Do not calculate

Dendrogram name: PFGE-XbaI

< Back Next > Cancel

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- To graph by a date variable, must convert date fields in database
- Right-click on date field and choose Information Field Properties
- Select Date in the Field menu

The screenshot shows the BioNumerics interface with a data table and a dialog box. The data table has the following columns: Date, ReceivedDate, UploadDate, UploadModifiedDate, and AntigenForm. The 'UploadDate' column is highlighted with a black box. The 'Properties for field 'UploadDate'' dialog box is open, showing the 'Field' dropdown set to 'Date'. The dialog box also contains a 'Field states' section with buttons for 'Add...', 'Add all...', 'Remove...', 'Remove all...', 'Edit...', and 'Sort'. On the right side of the dialog box, there are checkboxes for 'Read only', 'Restrict content to states', and 'Use colors', along with an 'Opacity' slider and a 'Default content' dropdown. At the bottom of the dialog box are 'Ok' and 'Cancel' buttons.

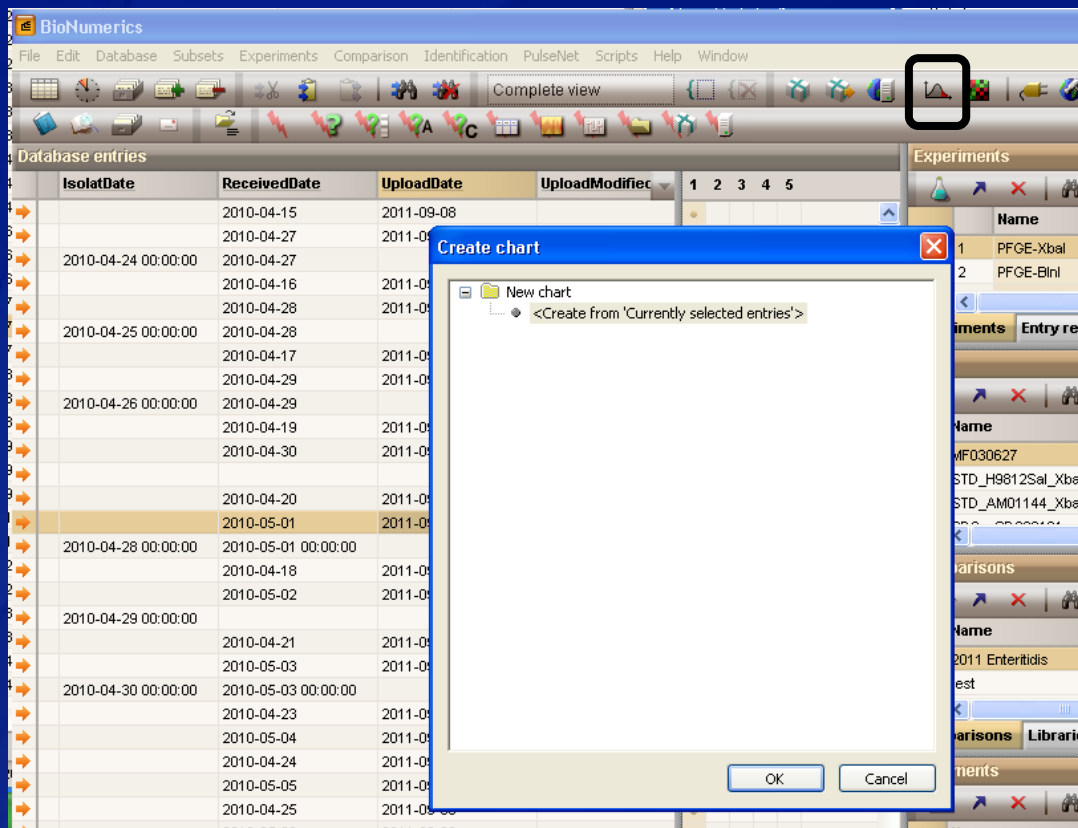
Date	ReceivedDate	UploadDate	UploadModifiedDate	AntigenForm
2010-04-15		2011-09-08		
2010-04-27		2011-09-08		
2010-04-16		2011-09-08		
2010-04-28		2011-09-08		
2010-04-17		2011-09-08		
2010-04-29		2011-09-08		
2010-04-19		2011-09-08		
2010-04-30		2011-09-08		
2010-04-20		2011-09-08		
2010-05-01		2011-09-08		
2010-04-18		2011-09-08		
2010-05-02		2011-09-08		
2010-04-21		2011-09-08		
2010-05-03		2011-09-08		
2010-04-23		2011-09-08		
2010-05-04		2011-09-08		
2010-04-24		2011-09-08		
2010-05-05		2011-09-08		
2010-04-25		2011-09-08		
2010-05-06		2011-09-08		
2010-04-26		2011-09-08		
2010-05-07		2011-09-08		
2010-05-09		2011-09-08		
2010-05-03		2011-08-30	2011-08-30	
2010-04-30		2011-08-30	2011-08-30	
				2011 Enteritidis

Step
1

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- Select entries and launch charts and statistics
- Create Chart screen appears, click OK

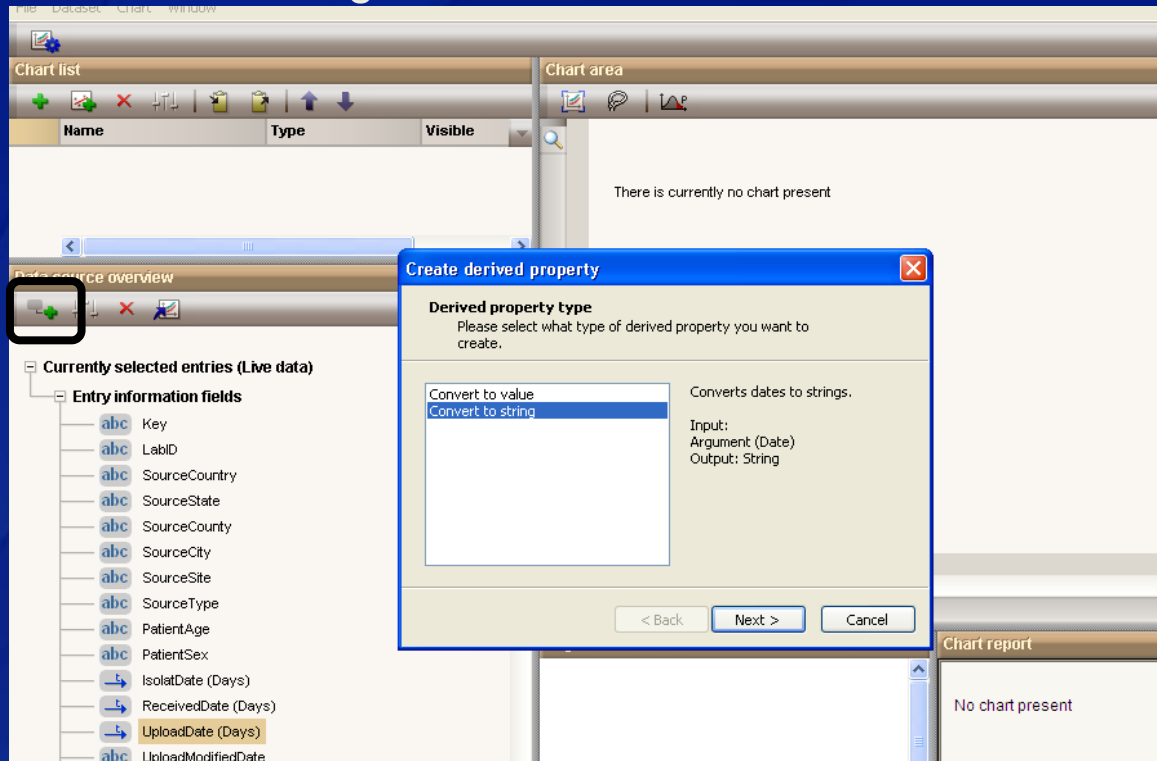


Step
2

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- Charts and Statistics divided into 5 windows
- Select Upload Date in the Data source overview panel and derive property
- Convert to string and select Next



Step
3

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- Create derived property by changing the string type
- String types are: Date, Week, Month, Quarter, and Year

Create derived property

Parameters
Please specify the parameters for this derived property.

Property name:

Argument:

String type:

- Date
- Week
- Month
- Quarter
- Year

< Back Next > Cancel

Step
4

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- Highlight your newly created chart converted string and launch the chart
- Select the type of chart you wish to create and click Next

The screenshot shows the BioNumerics 6.6 interface. A yellow arrow points from the 'Convert to string (UploadDate)' entry in the 'Entry information fields' list to the '+' icon in the top toolbar. The 'Add new chart' dialog is open, showing a list of chart types with 'Frequency bar graph' selected. The dialog also displays a description of the selected chart type and its required and optional components.

Add new chart

Chart type
Please select the type of chart you want to create.

Show compatible charts only

Profile chart (*)
Bar Graph (*)
Value histogram (*)
Box and Whiskers chart (*)
Scatter chart (*)
Profile difference chart (*)
3D Scatter chart (*)
Frequency bar graph
Frequency bar graph (colored) (*)
Contingency table (*)
3D Contingency chart (*)
ANOVA chart (*)
Component summary (mean) (*)
Component summary (quantile) (*)
Component summary (range count) (*)
Pie chart histogram table

A graphical display of tabular frequencies over a categorical property, shown as adjacent rectangles.

Required components:
Category (String)

Optional components:
Filter (Boolean)

(*) Needs other properties

< Back Next > Cancel

Step
5

CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

- Create Chart parameters if you wish: ie. Naming chart or click Next

Add new chart

Chart parameters
Please specify the parameters for this chart.

Chart name:

Chart components

Category:

Filter:

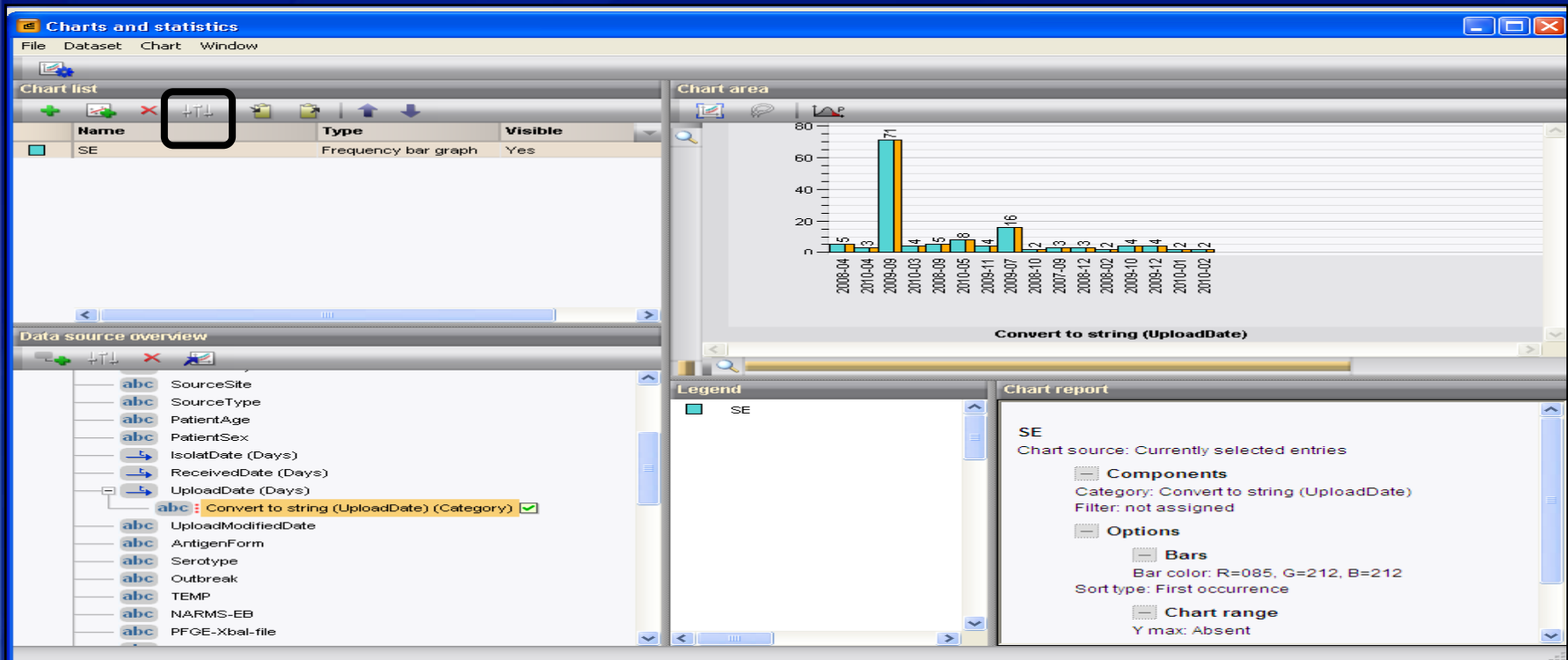
< Back Next > Cancel

**Step
6**

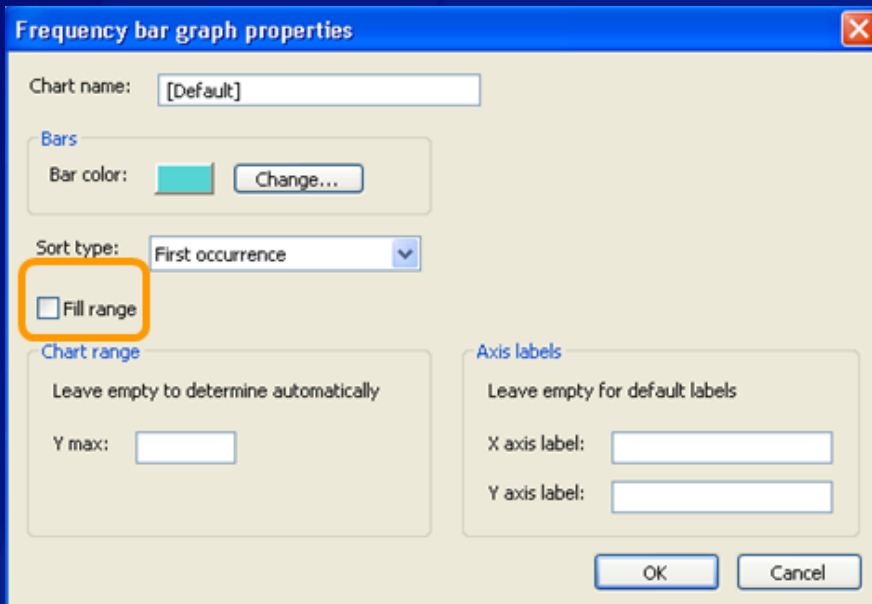
CDC Updates: Upgrading to BioNumerics 6.6

■ Charts and Statistics

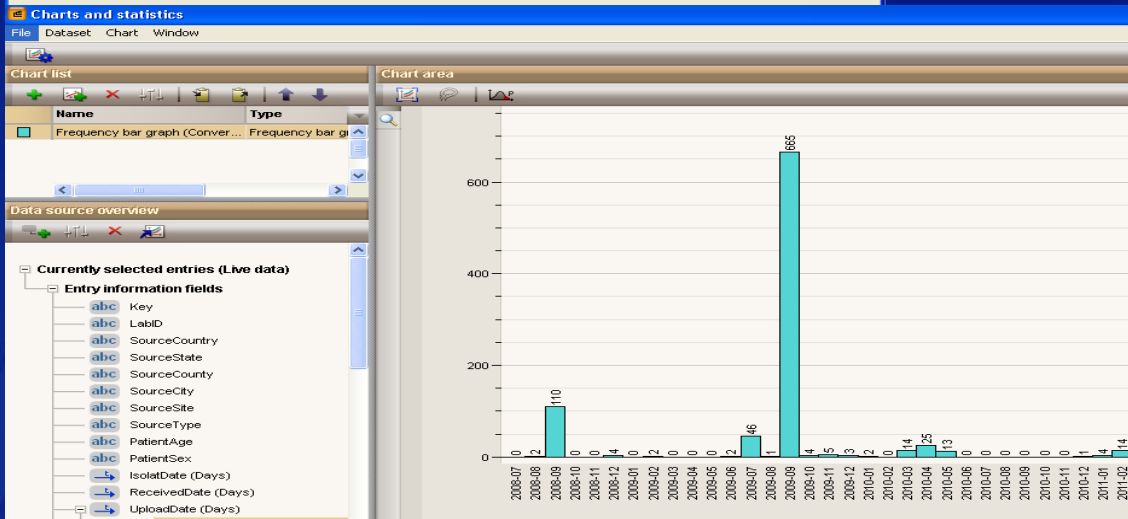
- Graph created in Chart area
- Null values not present, adjust settings to view null values
- Split color bars indicate the entries are selected in the database



CDC Updates: Upgrading to BioNumerics 6.6



- ### Settings Option:
- Fill range for null values present
 - Can change bar colors
 - You can label axis



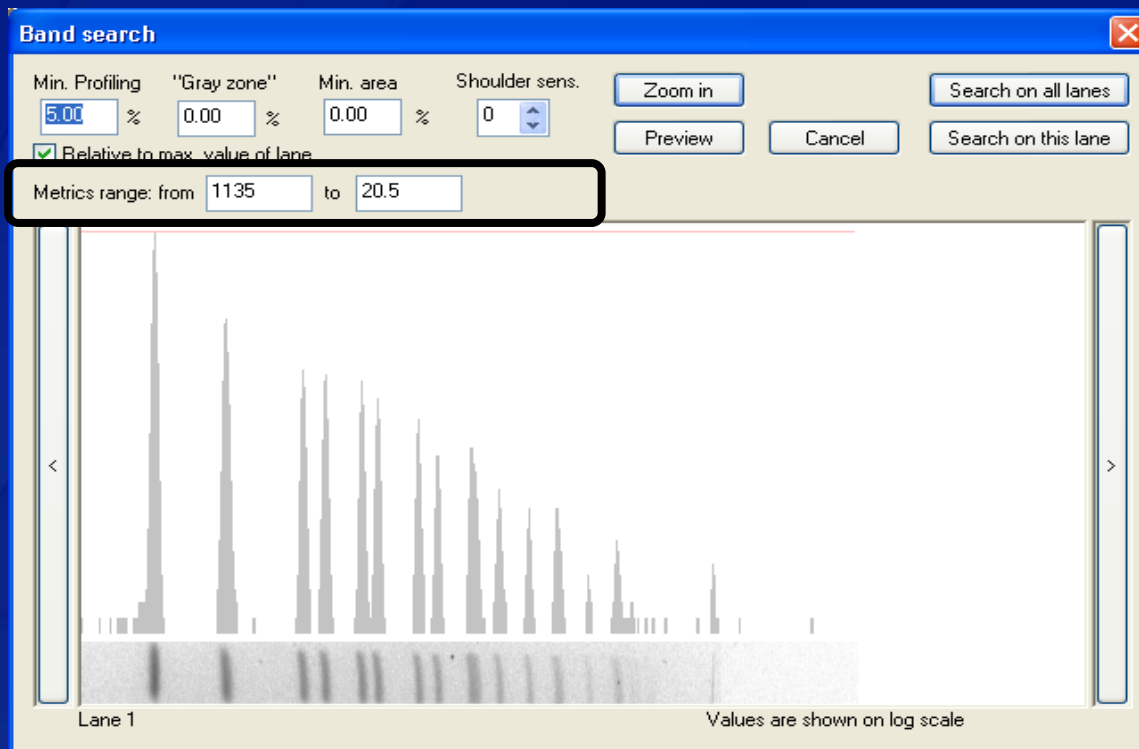
- Null values now present
- Solid bar colors indicate entries **NOT** selected in database



CDC Updates: Upgrading to BioNumerics 6.6


■ Other Features in BioNumerics version 6.6

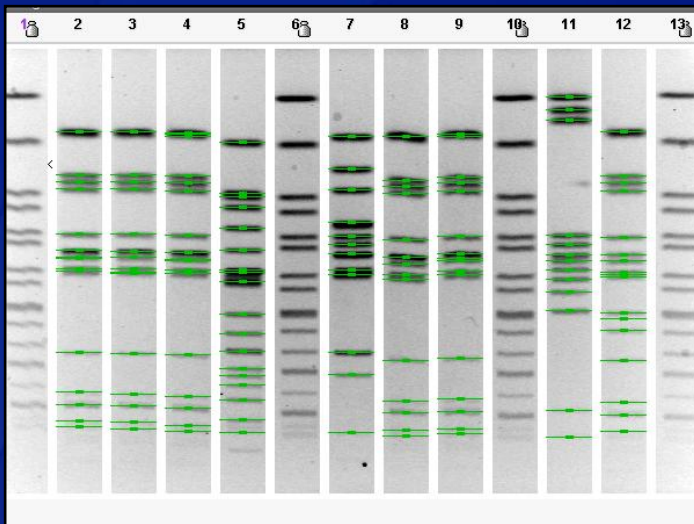
- Comparisons can now hold 20,000 entries
- You can set your auto-band assign to not mark anything above or below the standard



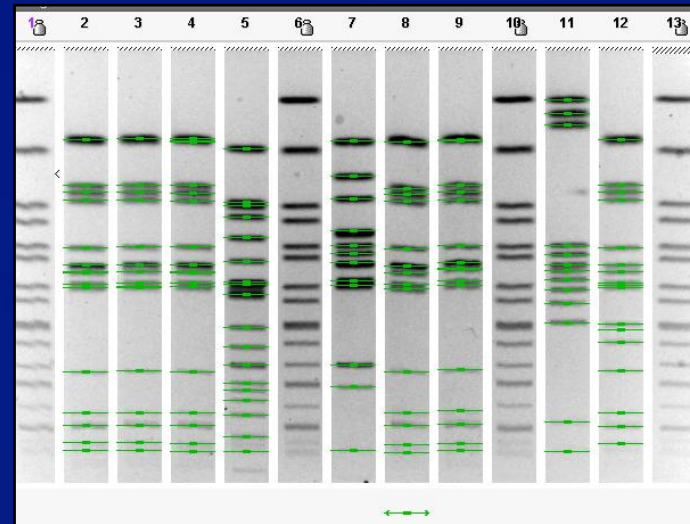
CDC PulseNet Database Reminders

■ Marking Bands and Standards

- Mark standards according to their flags
- Recommend marking bands manually, but can use “Auto search bands” if gel has minimal artifacts and ghost bands 
- If using “Auto search bands” be sure to toggle between the normalized and un-normalized view to ensure band markings are correct



Normalized View



Unnormalized View

CDC PulseNet Database Reminders

- **Provide as much information as possible**
 - **Species/Serotype:** Do not leave this field blank (use serotype pending or isolate to CDC) pattern name cannot be “confirmed” until this is entered
 - **Source Location:** Extremely important for initial investigation and should be the country, state, county, and city of the patient’s residence
 - **Source Type:** *Must* be one of these five - Animal, Human, Environment(al), Food, Unknown
 - **Source Site:** Stool, urine, blood, etc.
 - **Patient Age and Sex**
 - **Age – Only enter months or weeks if patient is under 1 year**
 - **Dates:** Isolation and Received
 - **Type Details:** Use to provide more information about source site
- **If importing, remember to check all data for accuracy**

CDC PulseNet Database Reminders

■ Turn Around Time

- Calculated based on received and upload date
- Received date should be entered as the date an isolate is received in the PFGE lab

■ PulseNet Databases

- Do not keep experiments for other organisms in your local PulseNet databases
- Ex. There should not be an *XbaI* experiment type in your *Listeria* or *Campylobacter* PulseNet databases
- Do not keep other organisms in your PulseNet databases
- Can prevent other labs from uploading

■ Communication

- When emailing PulseNet about a specific organism, please include the organism and serotype in the email subject
- Please let PulseNet know if someone is leaving or joining your lab

PulseNet CDC: Database Staff



Kelley Hise, MPH
PulseNet Database Unit
Chief
(404) 639-0704
kpb6@cdc.gov



Beth Tolar, MS
Salmonella Database
Coordinator
(404) 639-3627
bpa0@cdc.gov



Steven Stroika, BS
Database Coordinator
(404) 639-0779
fru3@cdc.gov



Brenda Brown, MTM
PulseNet IT Support
(404) 639-3942
bsb6@cdc.gov



Jennifer Adams, BS
PulseNet QA
(240) 485-2795
izk9@cdc.gov



Deb Sheehan, MS
PulseNet QA
zde9@cdc.gov



Chris Bailey, BS
Database Manager
(404) 639-4422
jqz8@cdc.gov



Gladys Gonzalez-Aviles,
MS
Database Manager
(404) 639-3679
vlo4@cdc.gov



Sung Im, BS
Database Manager
(404) 639-4736
wla9@cdc.gov



Lavin Joseph, MS
Database Manager
(404) 639-1546
gyu4@cdc.gov



April McDaniel, BS
Database Manager
(404) 639-4412
wlp9@cdc.gov



Nikki Maxwell, MSPH
PulseNet International
Coordinator
(404) 639-3412
ddq6@cdc.gov

PulseNet Database: 404-639-4558; E-mail: PFGE@cdc.gov

National Center for Emerging and Zoonotic Infectious Diseases
Division of Foodborne, Waterborne, and Environmental Diseases



Thank You

If you have any questions, comments, or suggestions please contact us at **404-639-4558** or e-mail **PFGE@cdc.gov**

