PulseNet Database Team Updates and Reminders

16th Annual PulseNet Update Meeting

August 2012

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

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

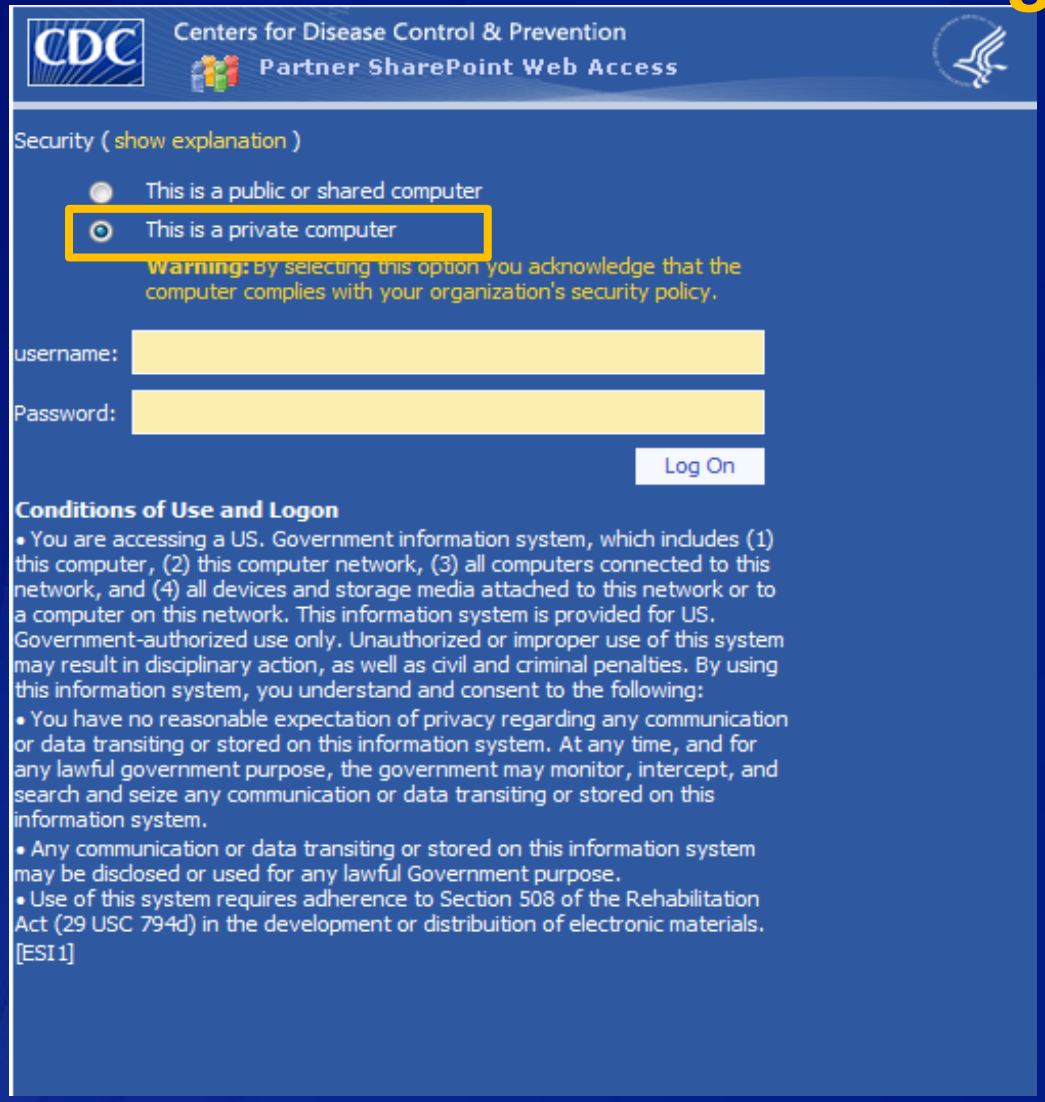
- **Detecting Clusters/Outbreaks**
- **Following Outbreak Investigations**
  - Lab Updates
  - Epi Updates
- **Comparing Patterns**
- **Reading Important Documents**
  - QA/QC Manual
  - Publications
  - Active cluster reports
  - Weekly cluster bundle files
  - Pattern changes
  - Weekly Epi Report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

Please utilize these tools weekly to reduce your workload

SharePoint: Obtaining Access

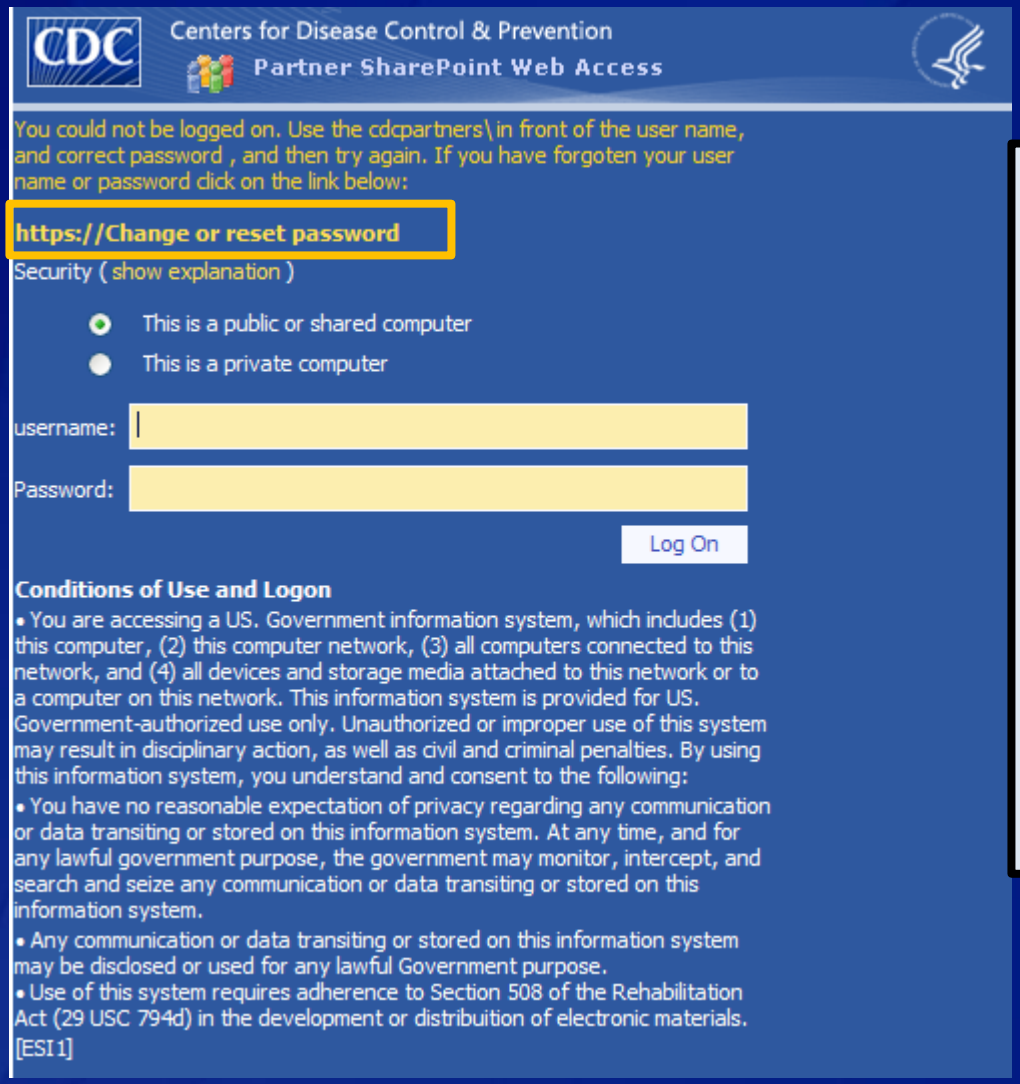
- **SharePoint is administered through the CDC Public Health Partner Portal**
- **Laboratorians: request access by sending an e-mail to PFGE@cdc.gov**
- **Epidemiologists: request access by sending an e-mail to outbreakresponse@cdc.gov**
- **In the e-mail, please provide:**
  - First and last name
 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

SharePoint: Logging In



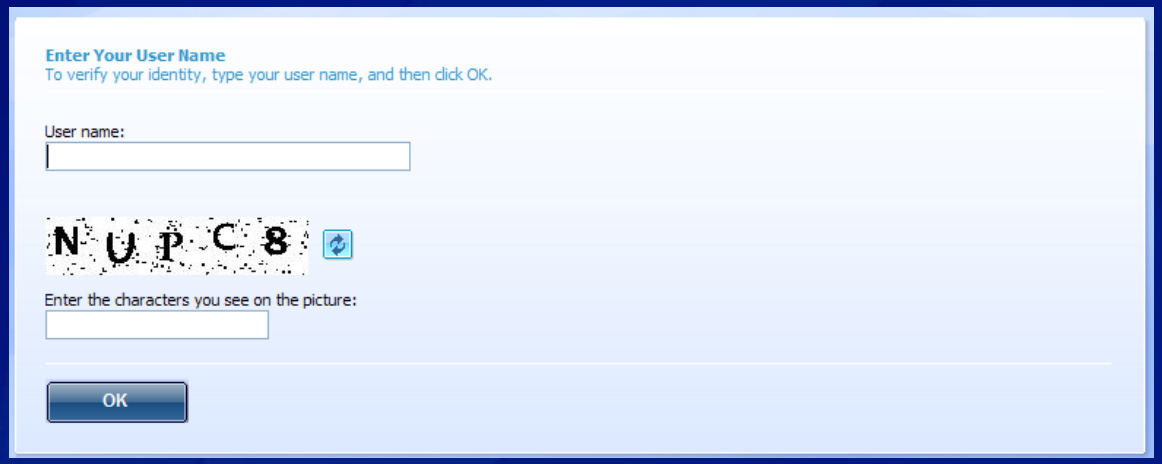
- Selecting shared computer as your login option will put a time limit on SharePoint inactivity
- Selecting private computer option will not impose a time limit
- **We recommend selecting the private option**

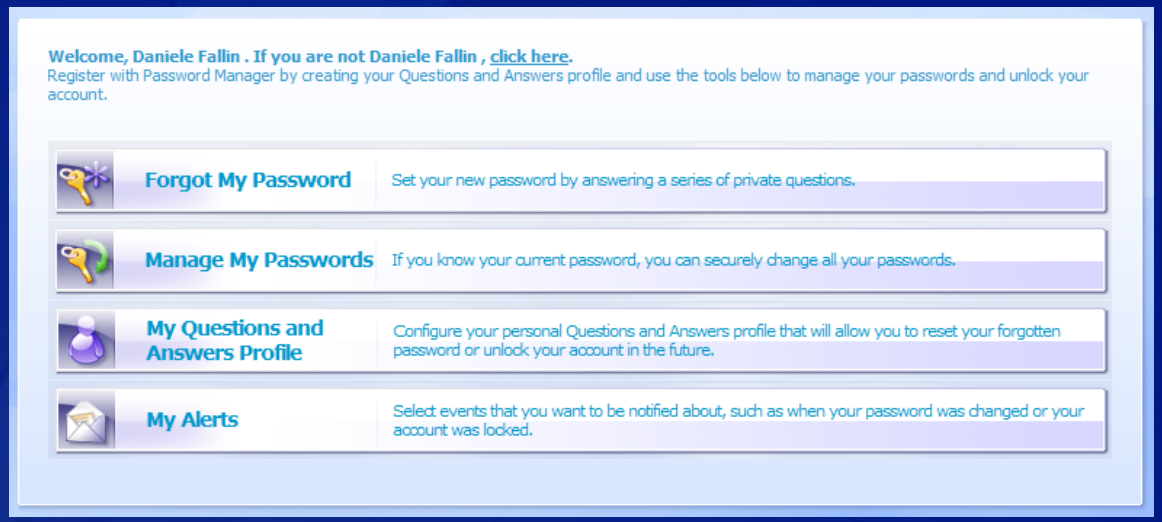
SharePoint: Changing Your Password



- 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

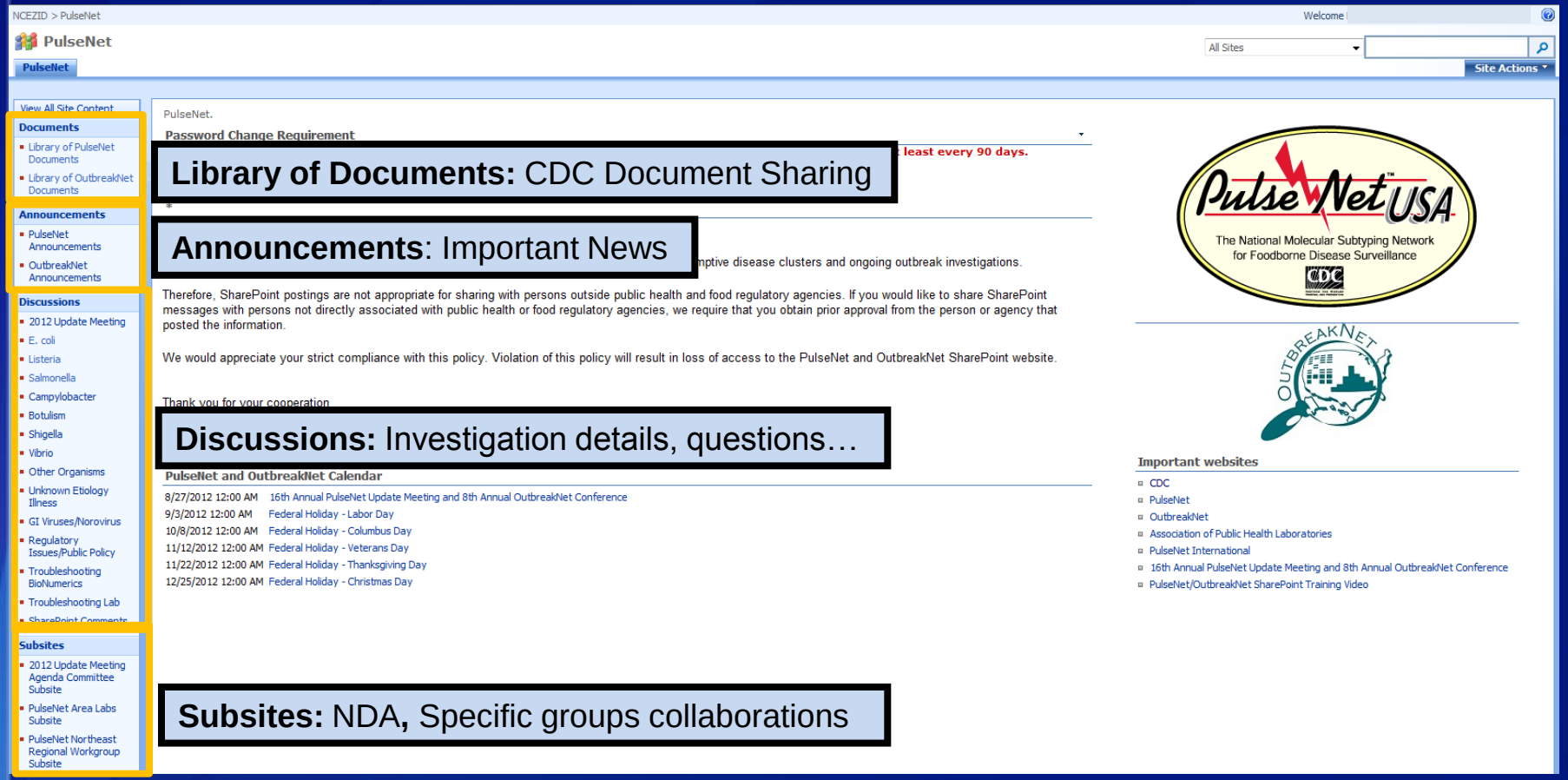
SharePoint: Changing Your Password





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

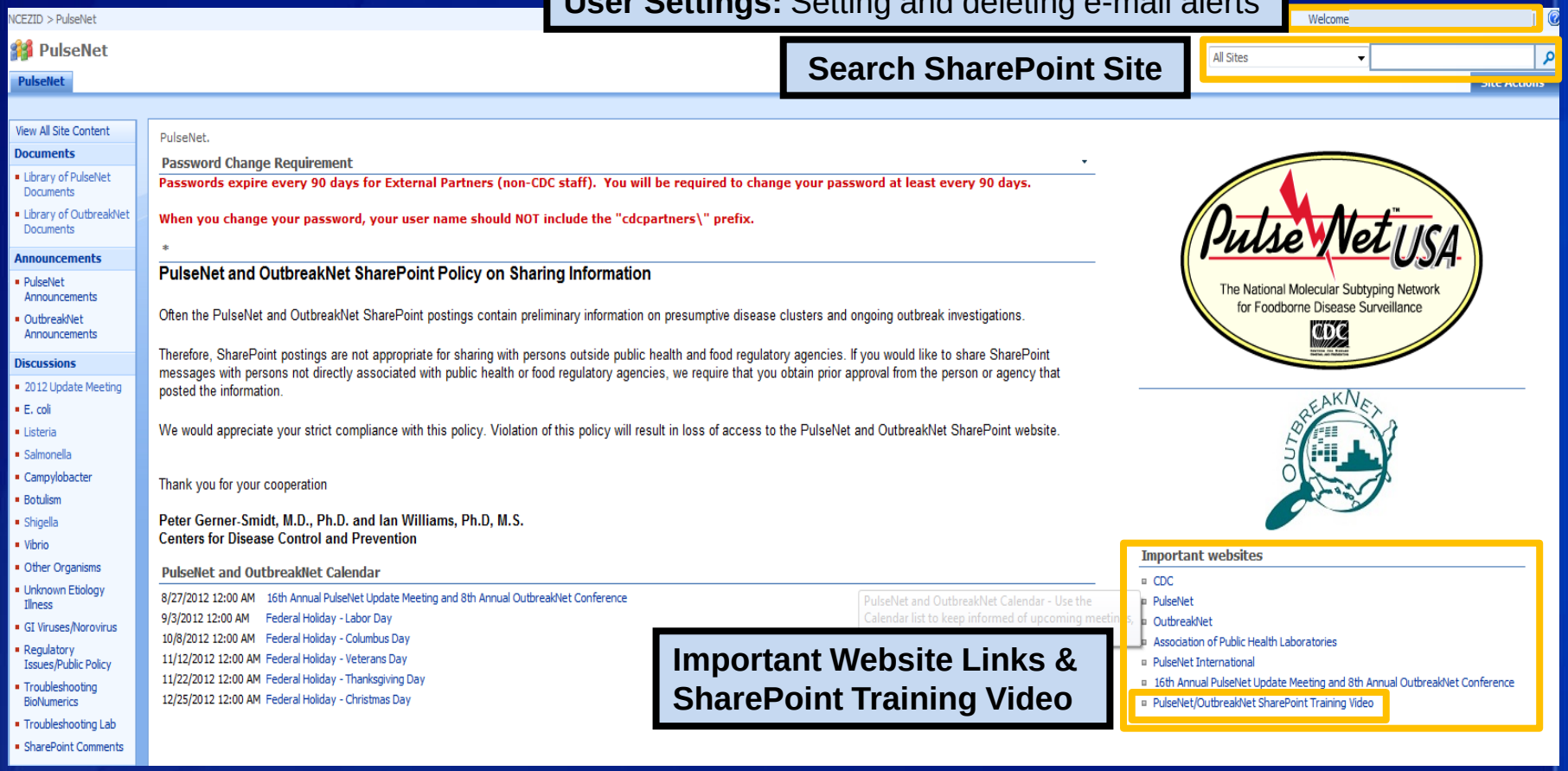
PulseNet and OutbreakNet SharePoint Site Information



PulseNet and OutbreakNet SharePoint Training Video

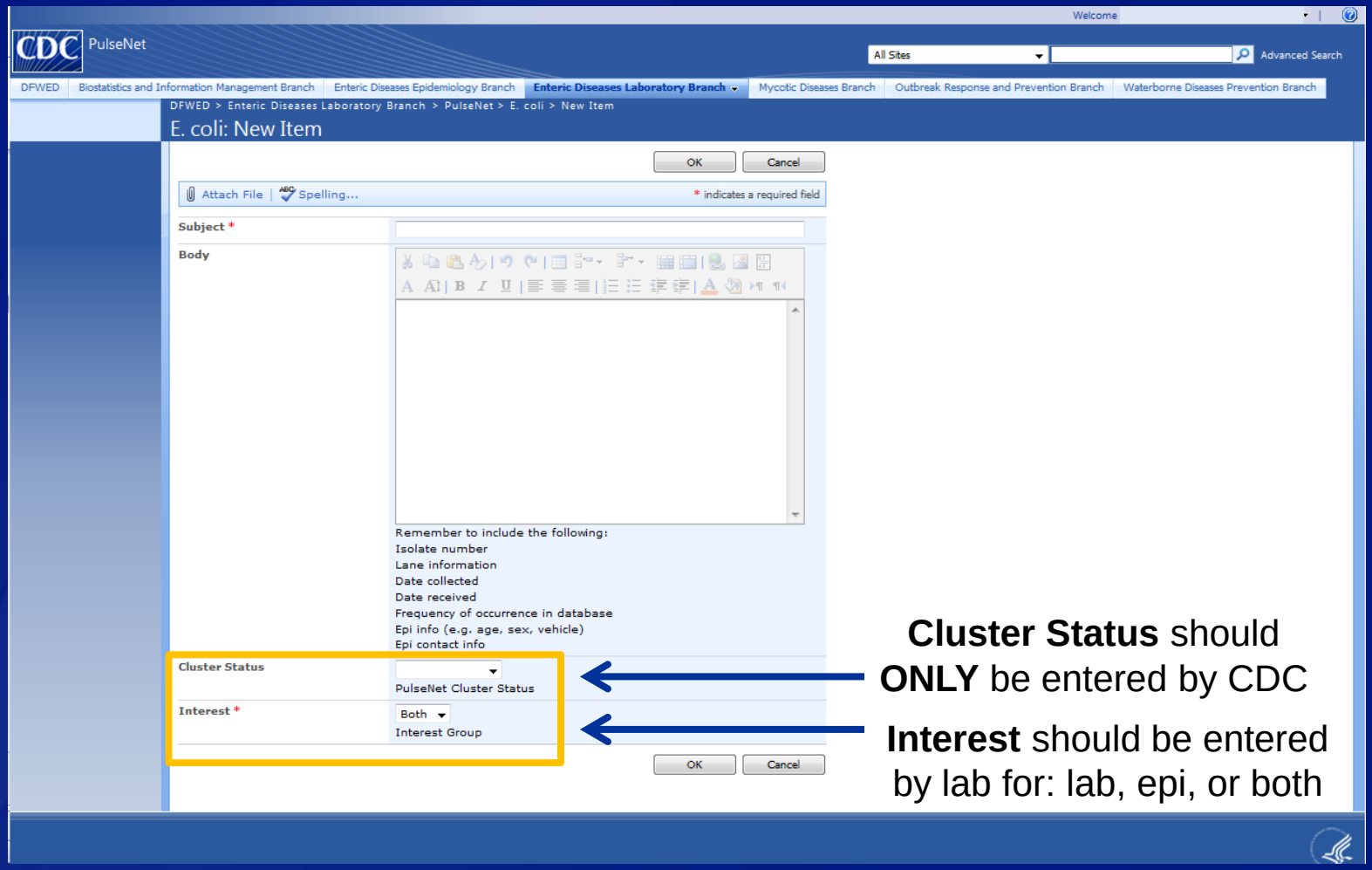
User Settings: Setting and deleting e-mail alerts

Search SharePoint Site



Important Website Links & SharePoint Training Video

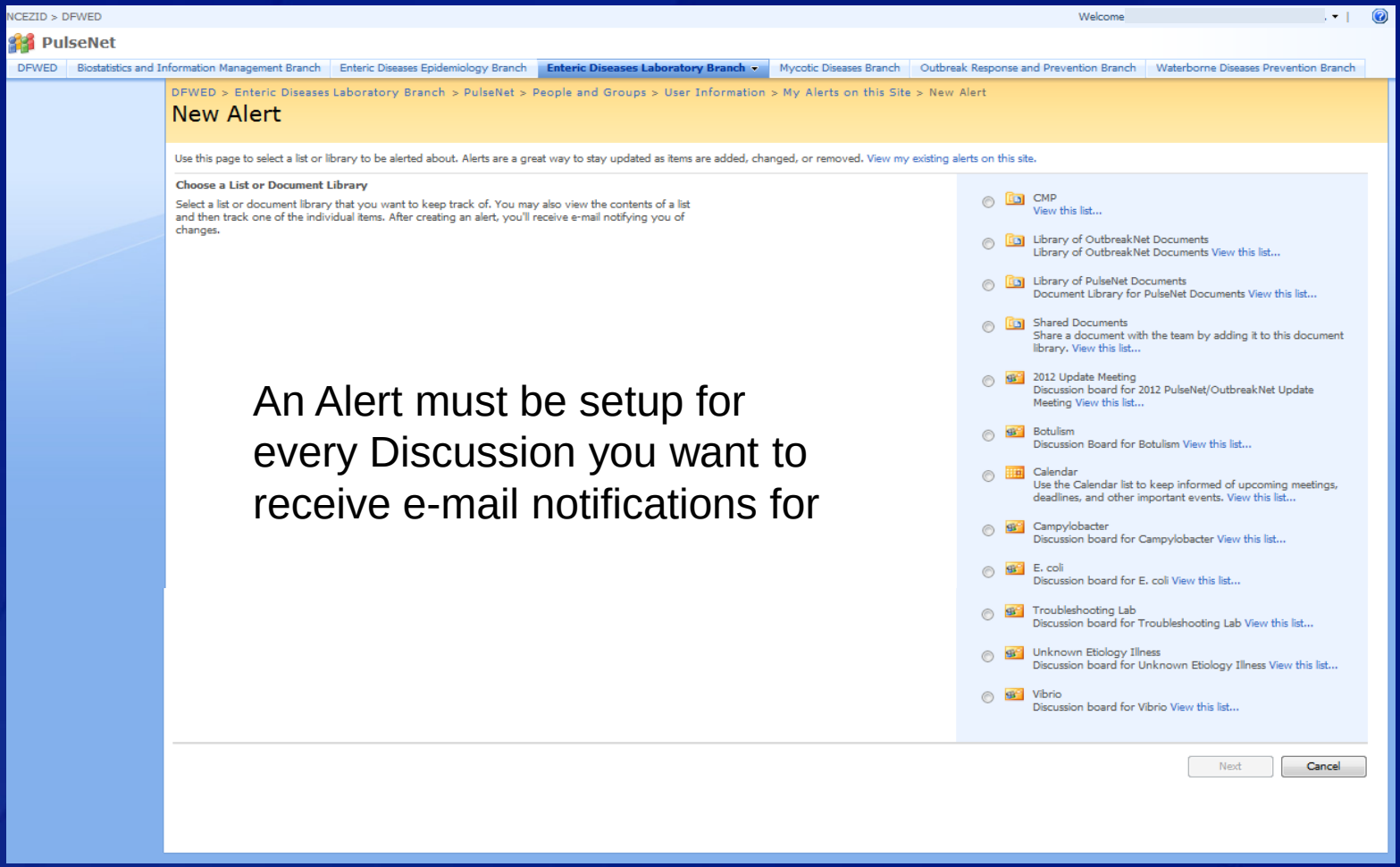
SharePoint: Reminders



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

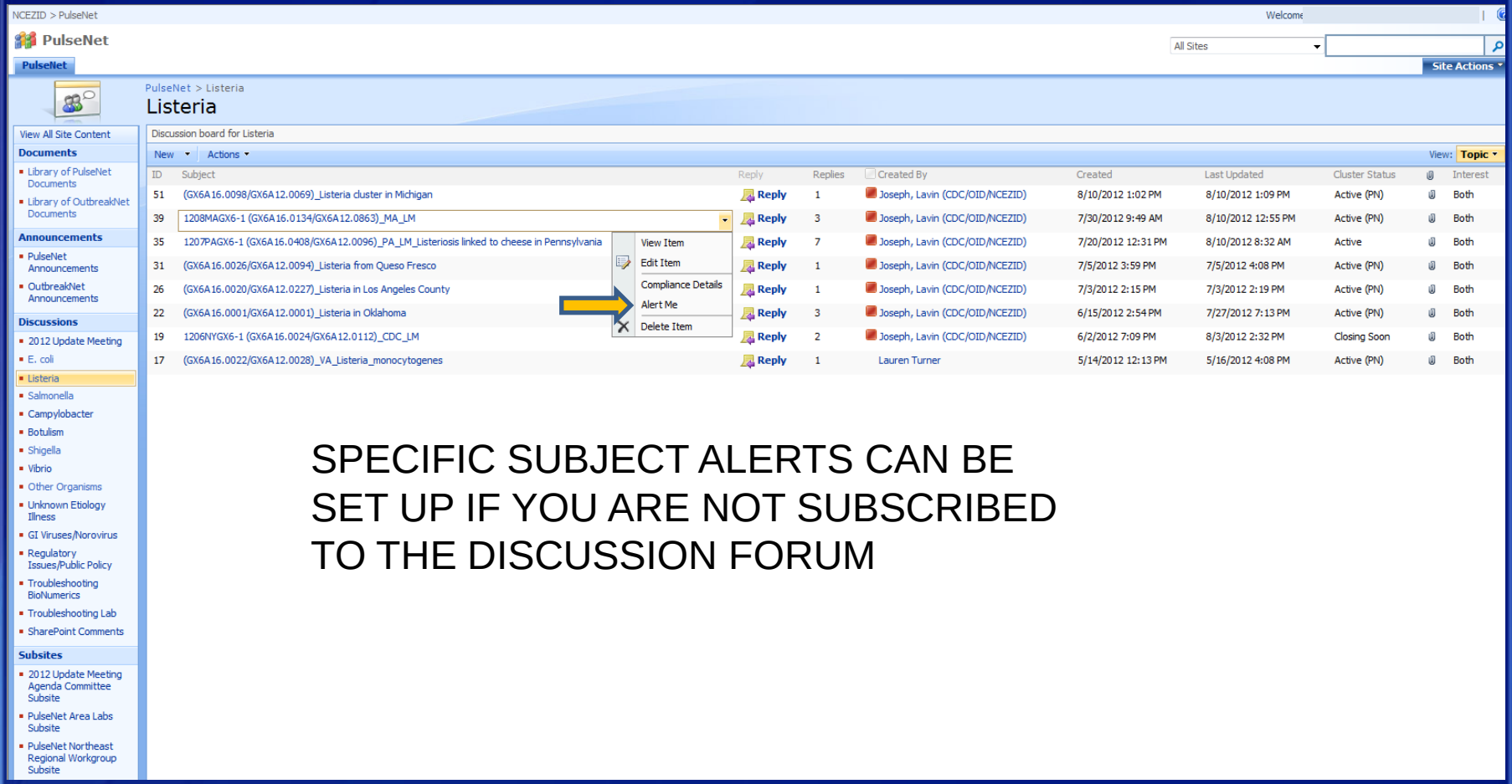
Interest should be entered by lab for: lab, epi, or both

SharePoint: Reminders



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

SharePoint: Reminders

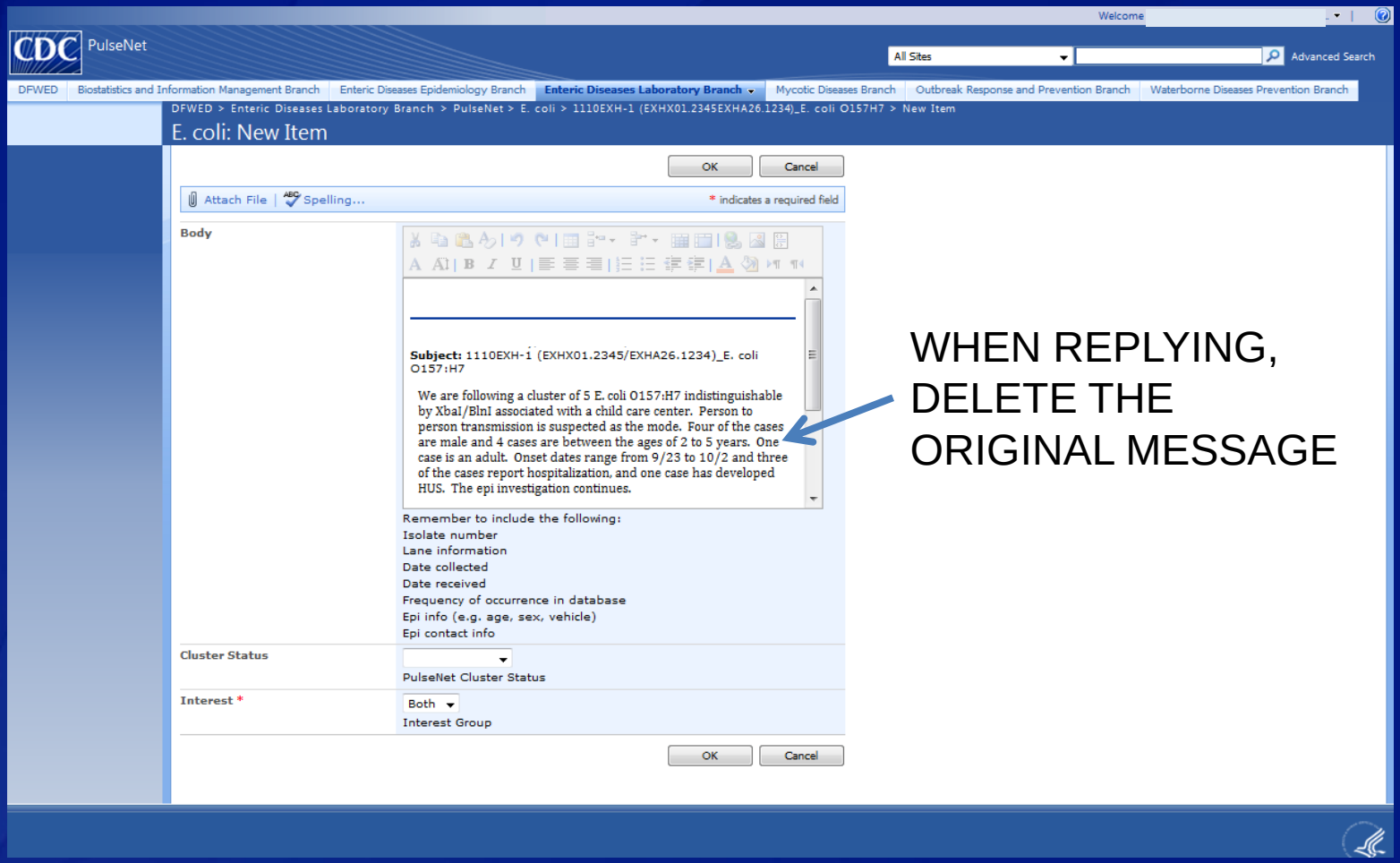


SPECIFIC SUBJECT ALERTS CAN BE SET UP IF YOU ARE NOT SUBSCRIBED TO THE DISCUSSION FORUM

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

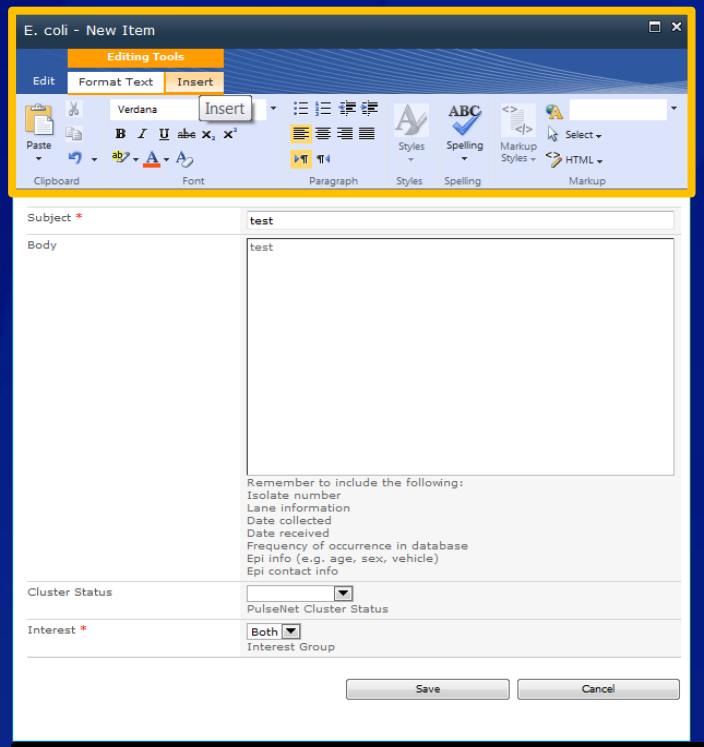


WHEN REPLYING, DELETE THE ORIGINAL MESSAGE

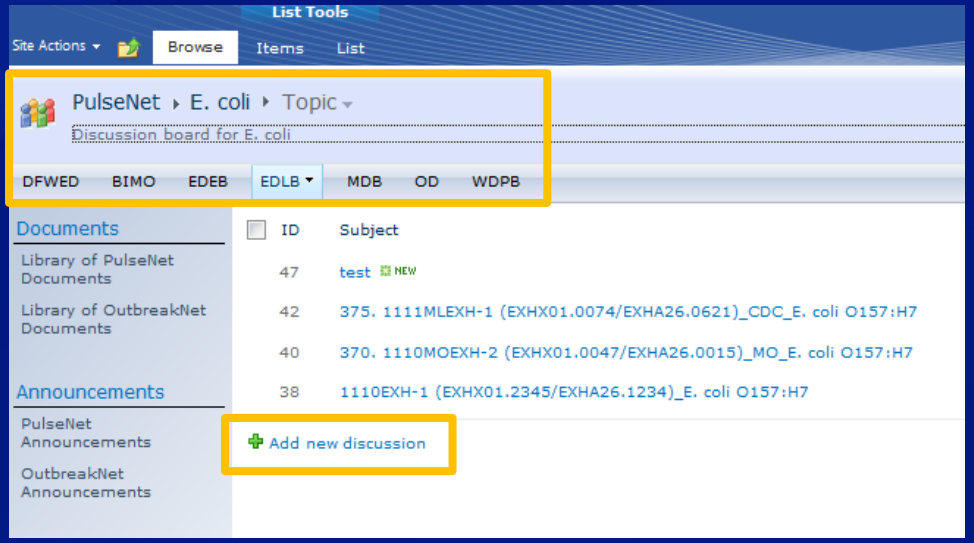
SharePoint: Reminders

- 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
  - *Bln*I patterns are not routinely named, except in outbreak investigations
  - Requests for *Bln*I 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

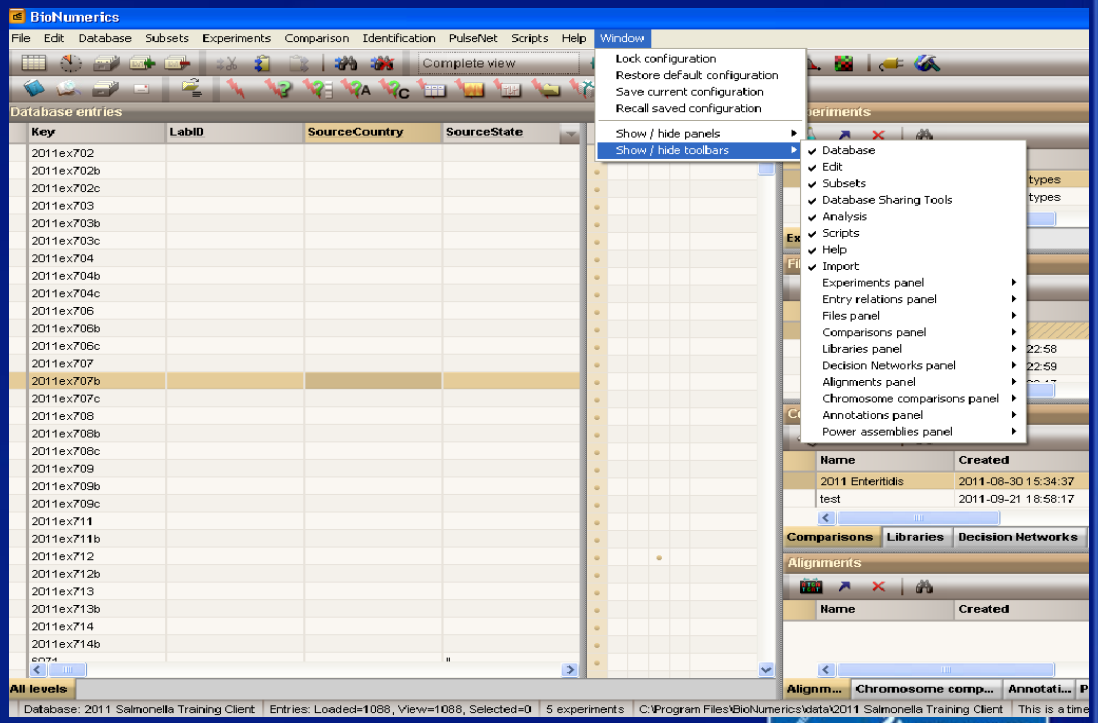
- **Database team currently uses version 5.01**
- **CDC PulseNet plans to upgrade in 2012**
- **Labs can upgrade at their own discretion**
  - Labs with a connected database should contact CDC PulseNet before upgrading
- **Version 6.6 differences:**
  - Importing
  - Additional panels, buttons, and some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

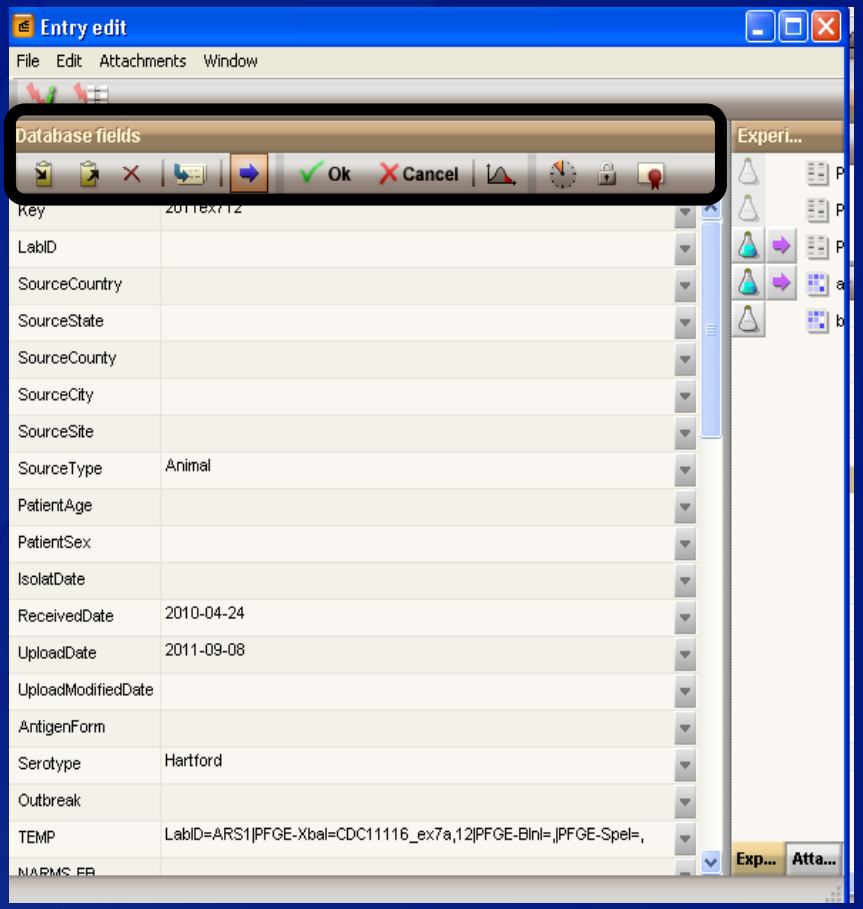
  - If a null value is present on your spreadsheet data will not import
  - Recommend using ODBC link under the Database pull-down menu
    - If importing from Excel sheet names will automatically populate

- **Additional Toolbars/Panels**
  - Go to Window and choose Show/hide panels and toolbars to change views



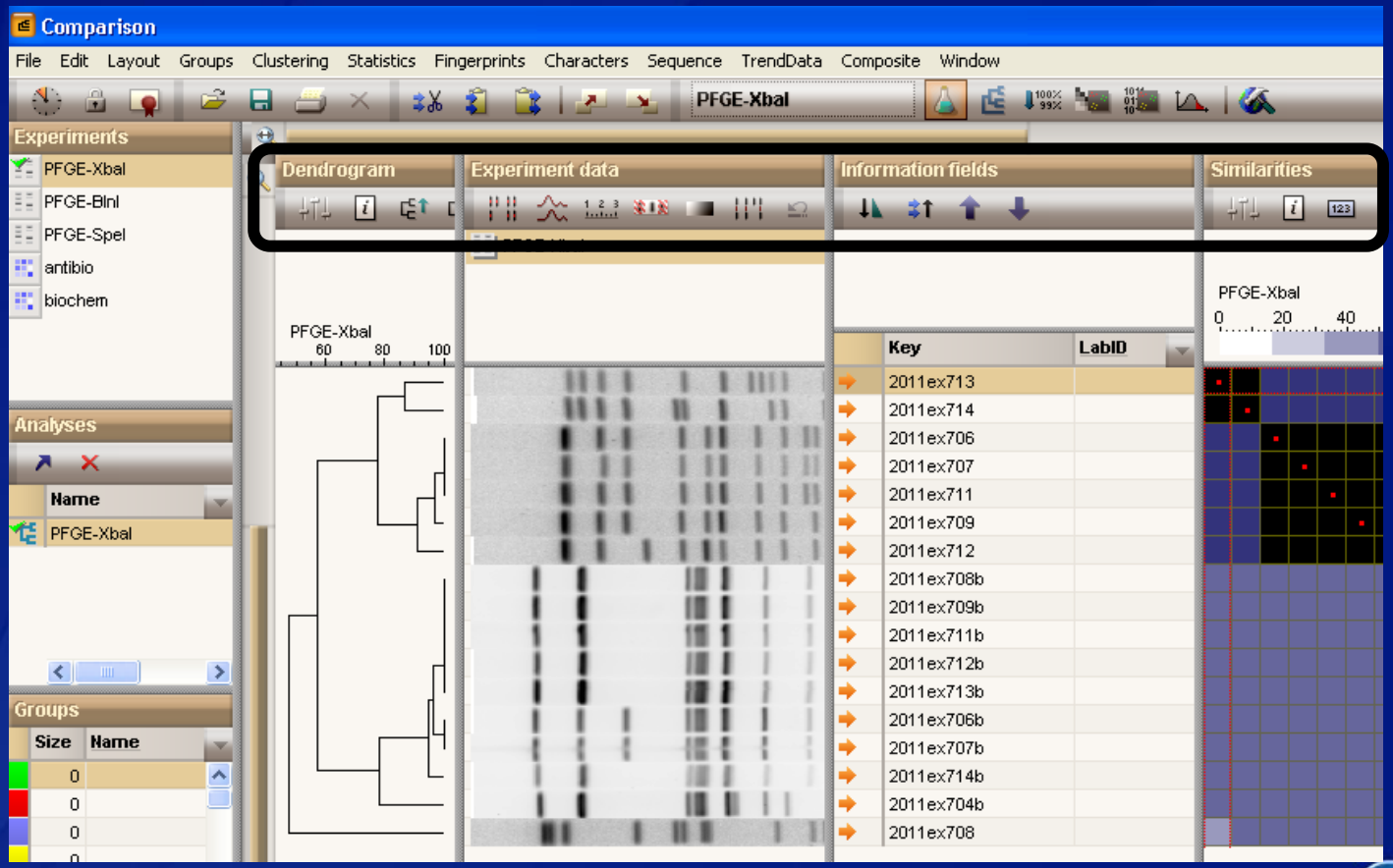
CDC Updates: Upgrading to BioNumerics 6.6

- **Additional quick launch icons**
  - Entry edit window can now launch charts and statistics



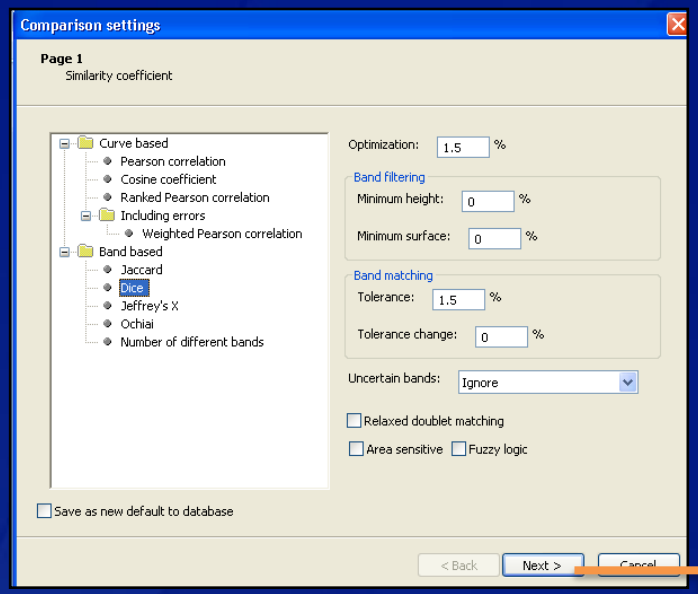
CDC Updates: Upgrading to BioNumerics 6.6

- **Additional quick launch icons**
  - Comparison window now has quick launch icons to use

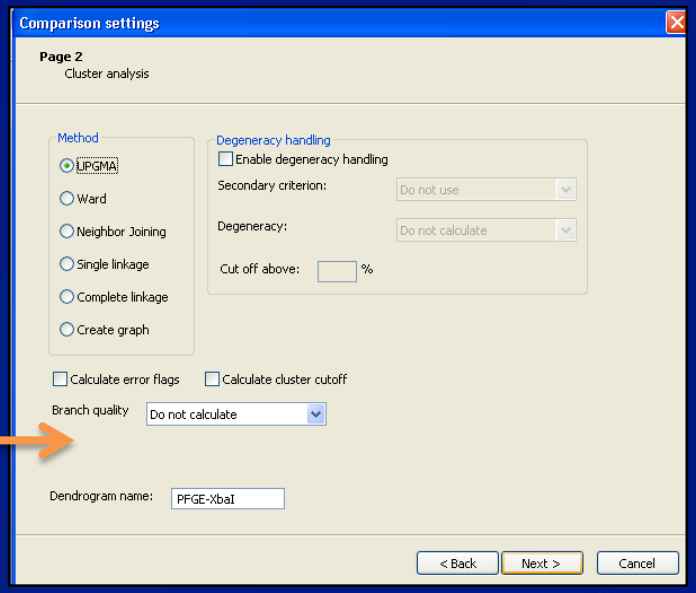


CDC Updates: Upgrading to BioNumerics 6.6

Dendrograms

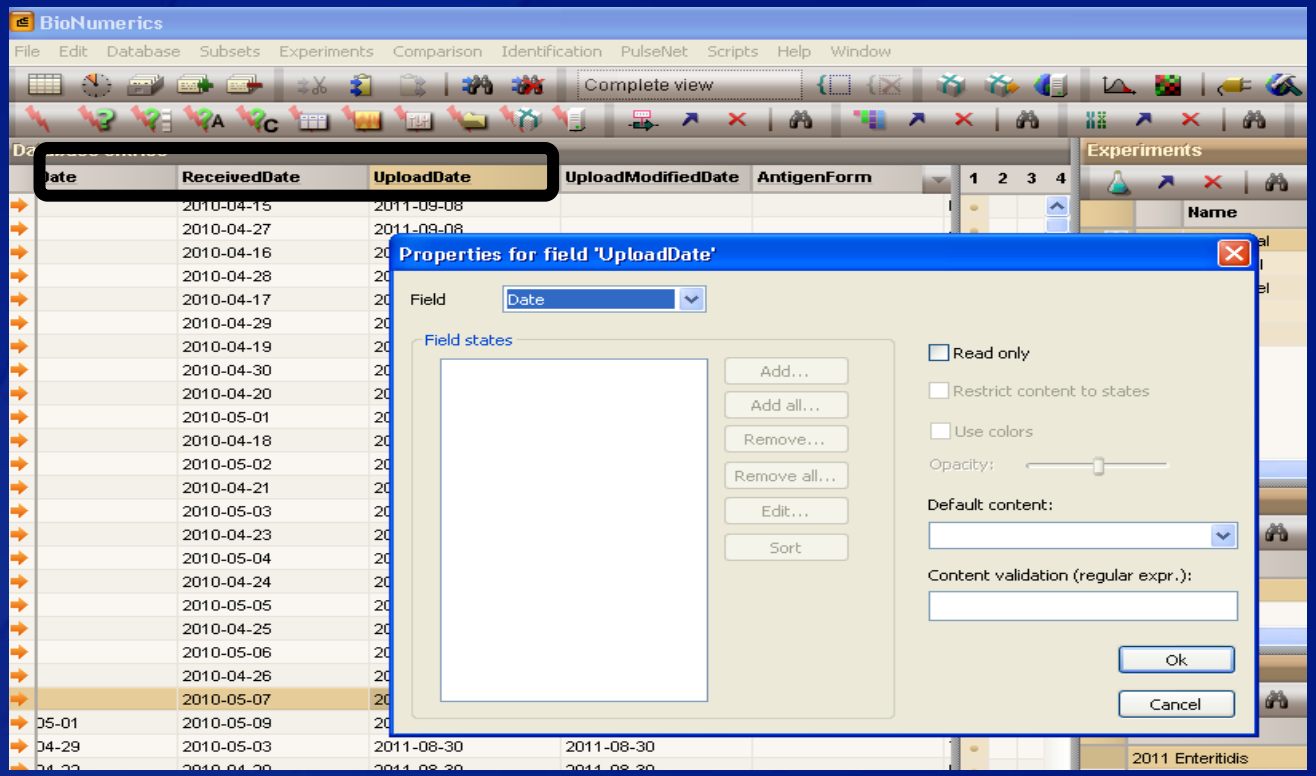


- Creating dendrograms is a two step process
- Default settings have not changed



CDC Updates: Upgrading to BioNumerics 6.6

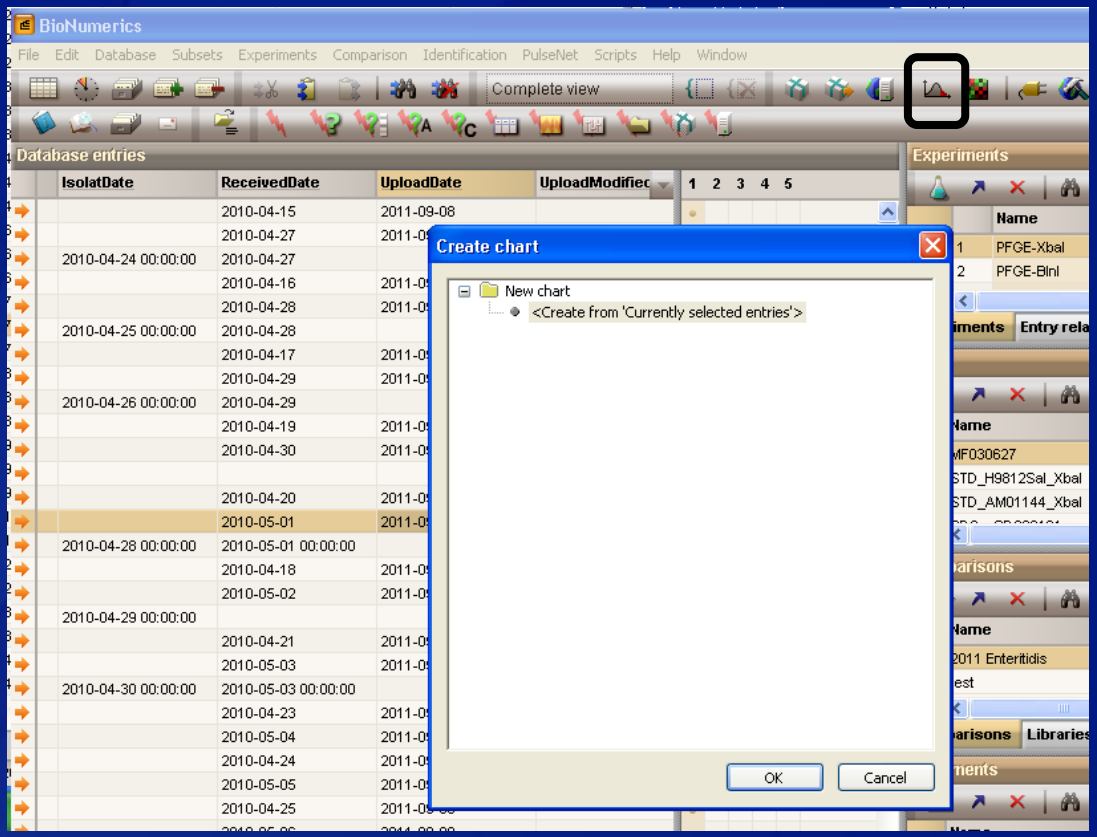
- **Charts and Statistics**
  - To graph by a date variable, must convert date fields in database
  - Right-click on date field and choose Information Field Properties
  - Select Date in the Field menu



Step 1

CDC Updates: Upgrading to BioNumerics 6.6

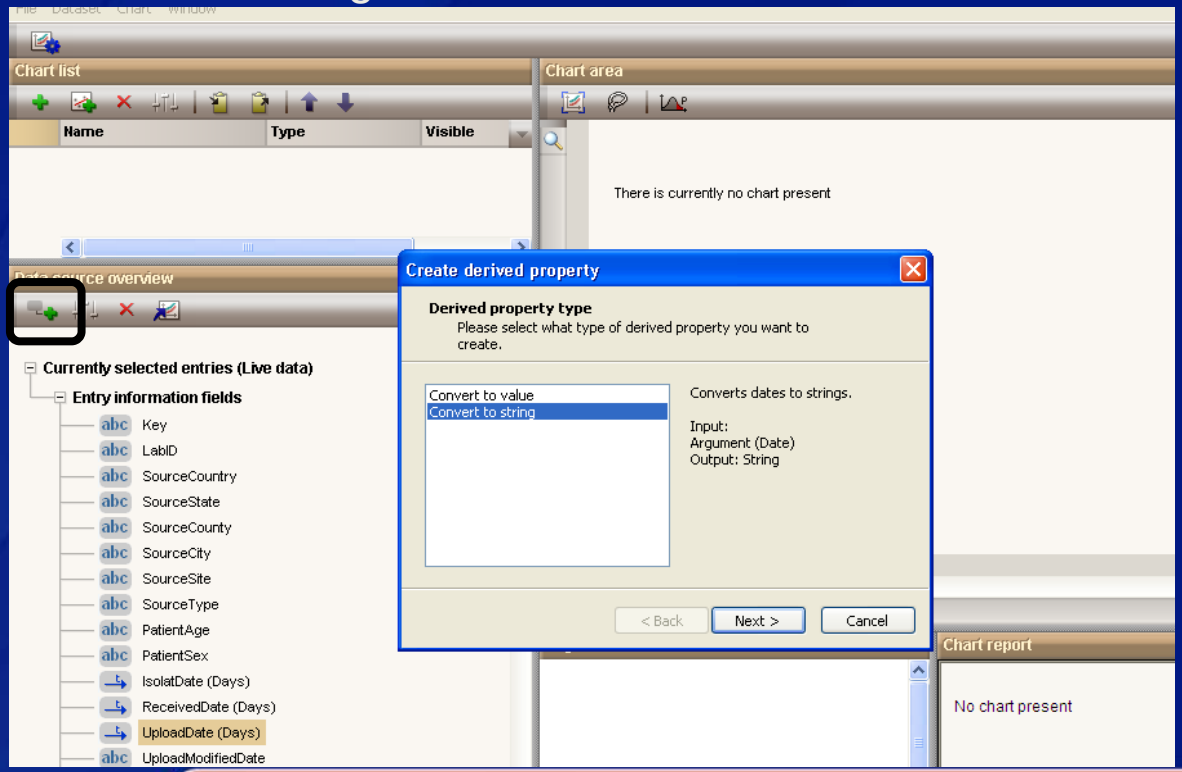
- **Charts and Statistics**
  - Select entries and launch charts and statistics
  - Create Chart screen appears, click OK



Step 2

CDC Updates: Upgrading to BioNumerics 6.6

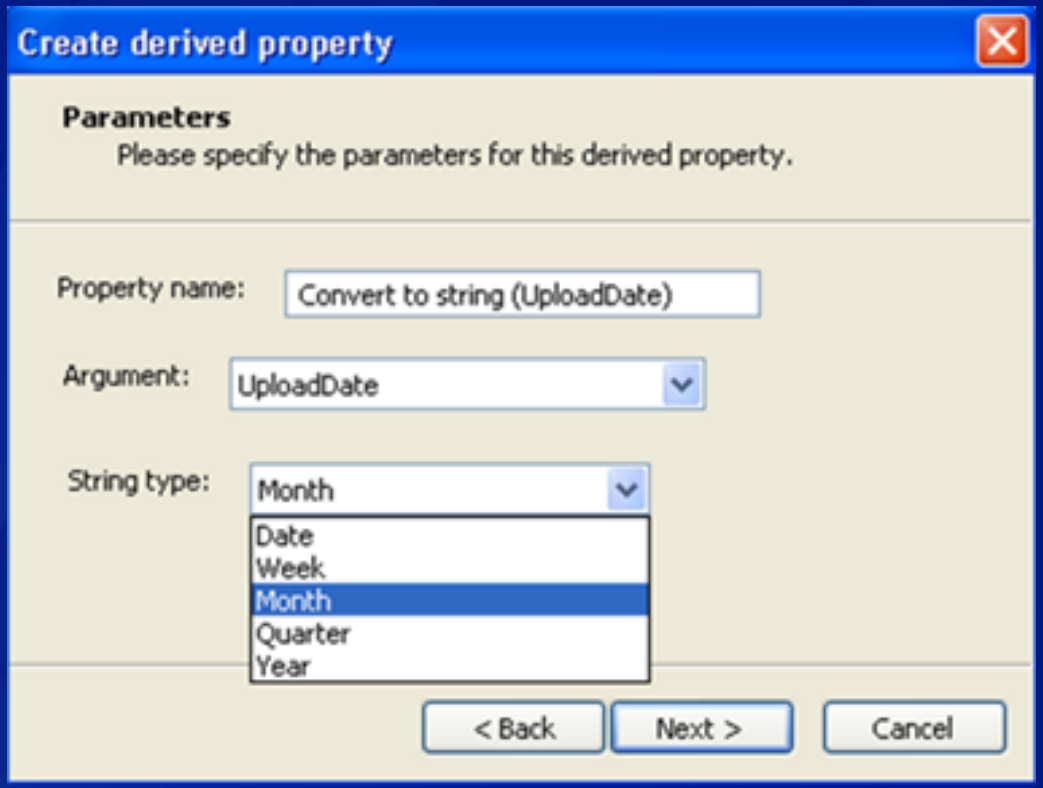
- **Charts and Statistics**
  - Charts and Statistics divided into 5 windows
  - Select Upload Date in the Data source overview panel and derive property
  - Convert to string and select Next



Step 3

CDC Updates: Upgrading to BioNumerics 6.6

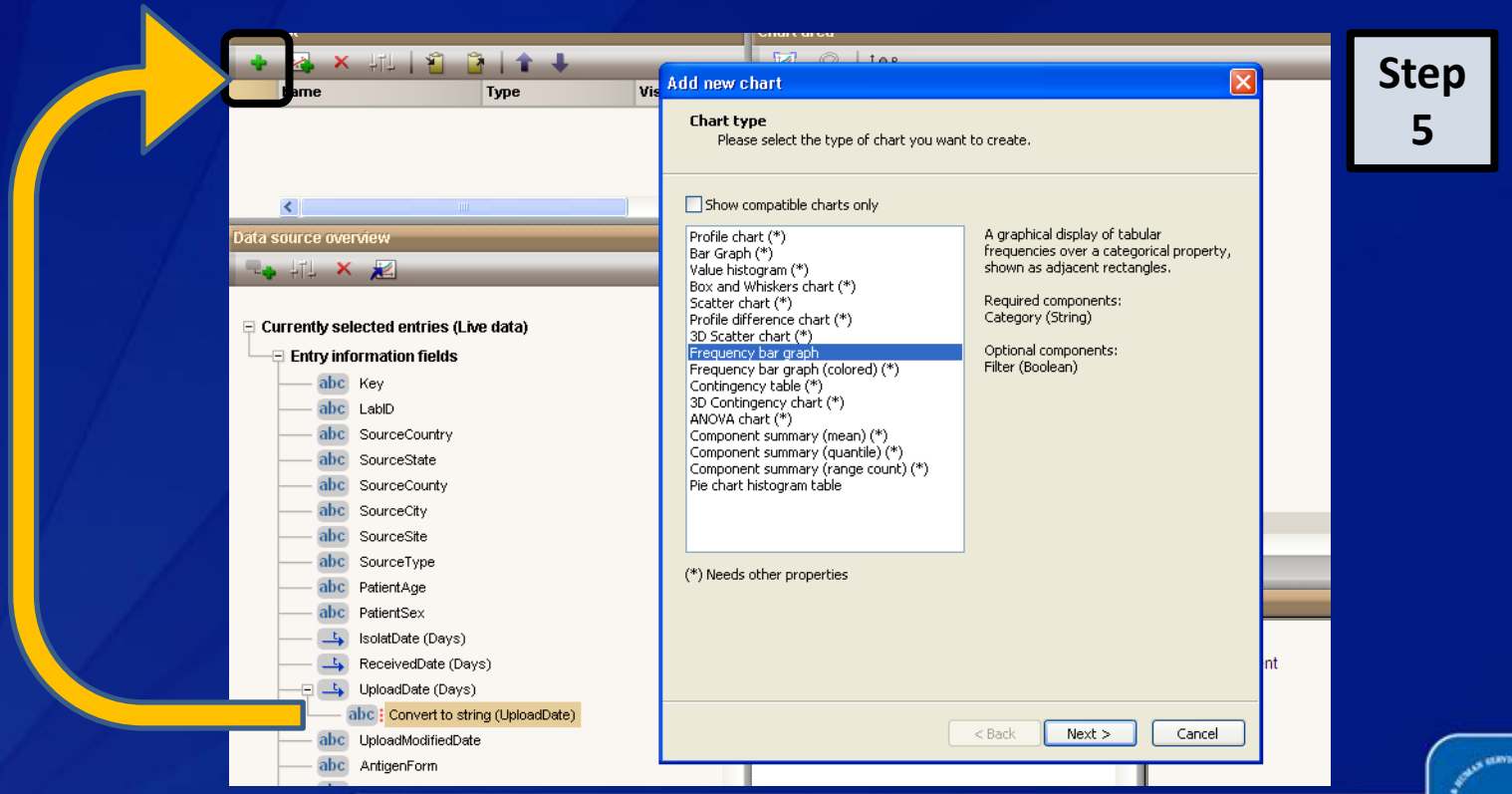
- **Charts and Statistics**
  - Create derived property by changing the string type
  - String types are: Date, Week, Month, Quarter, and Year



Step 4

CDC Updates: Upgrading to BioNumerics 6.6

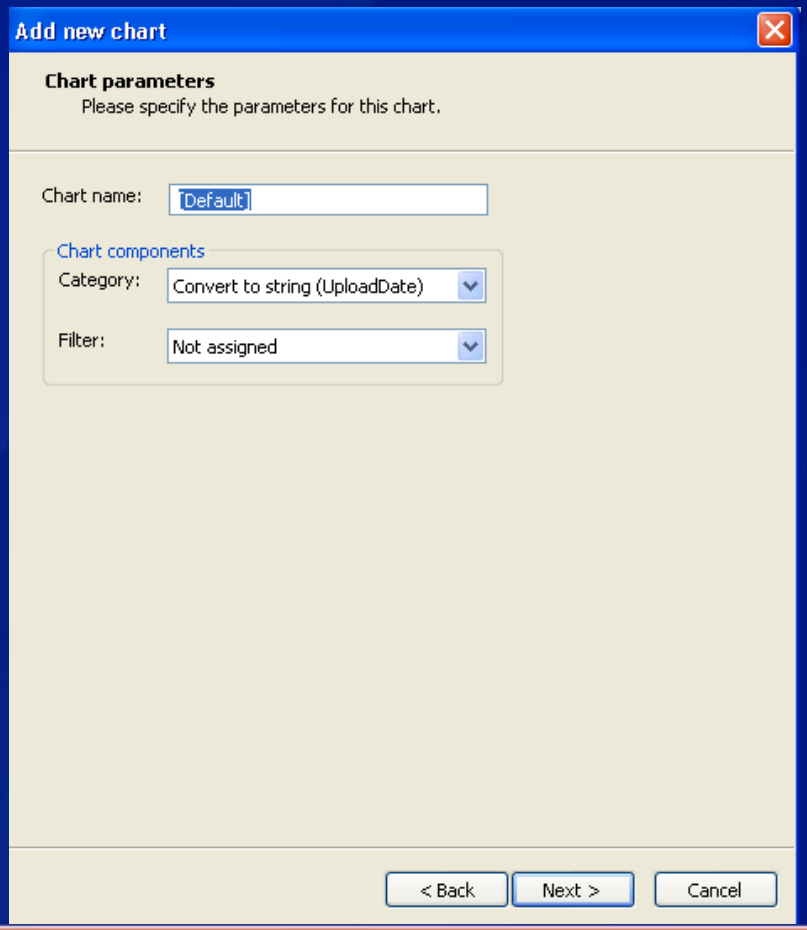
- **Charts and Statistics**
  - Highlight your newly created converted string and launch the chart
  - Select the type of chart you wish to create and click Next



Step 5

CDC Updates: Upgrading to BioNumerics 6.6

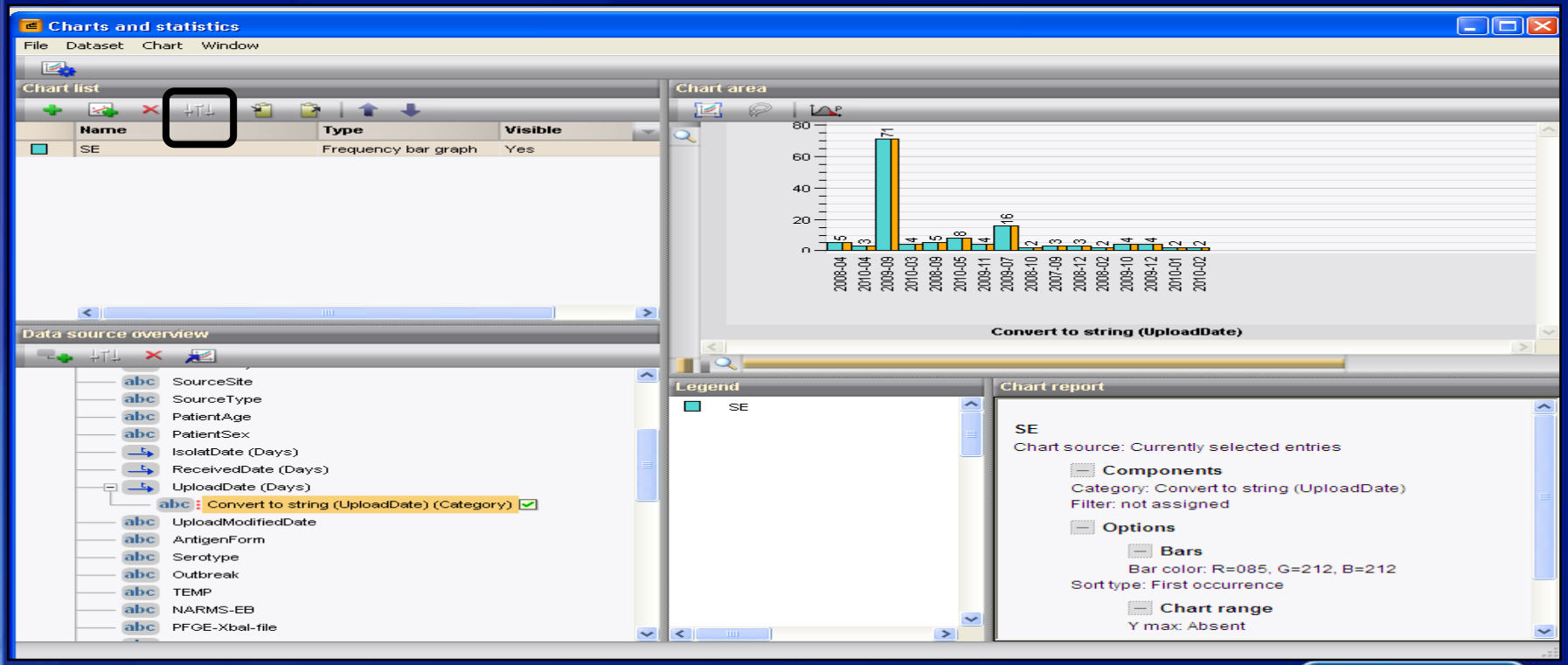
- **Charts and Statistics**
  - Create Chart parameters if you wish: ie. Naming chart or click Next



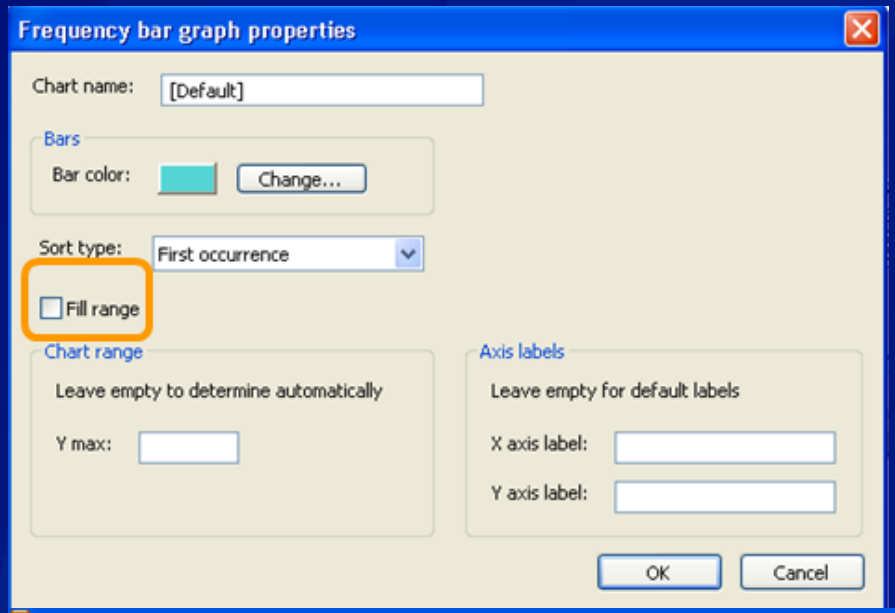
Step 6

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

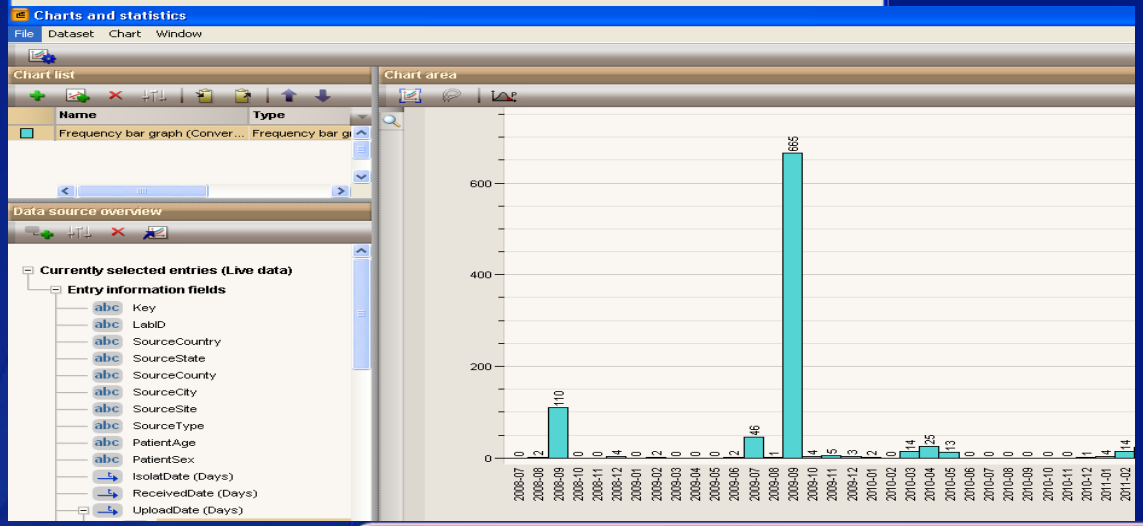


CDC Updates: Upgrading to BioNumerics 6.6



Settings Option:

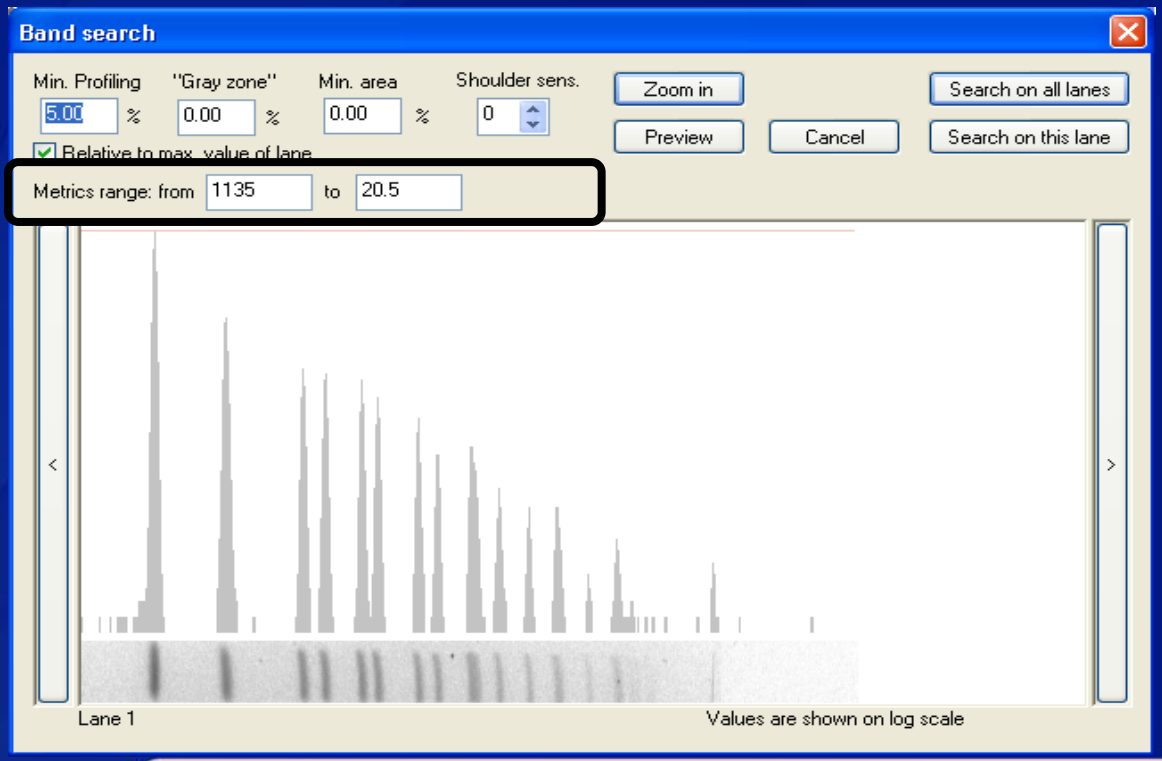
- Fill range for null values present
- Can change bar colors
- You can label axis



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

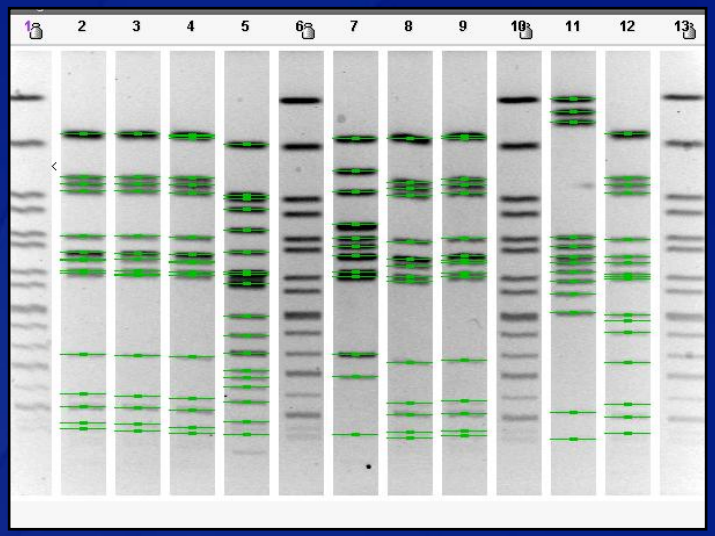
CDC Updates: Upgrading to BioNumerics 6.6

- **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

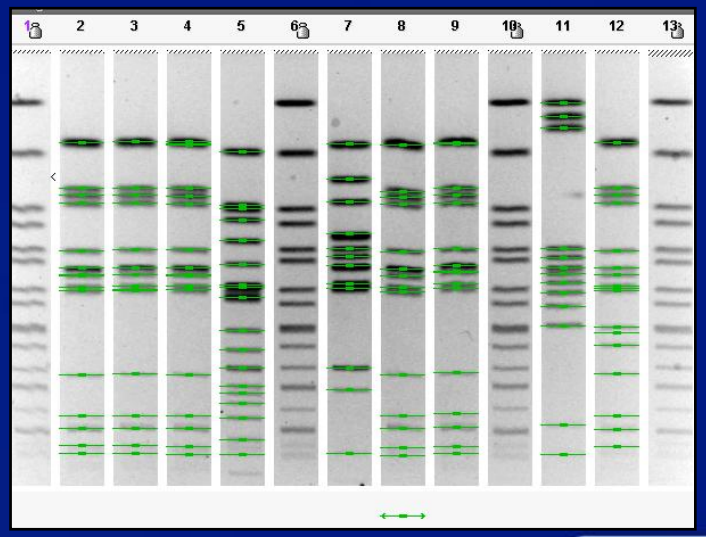


CDC PulseNet Database Reminders

- **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 *Xba*I 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

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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