

Smithsonian FIMS and Geneious LIMS Training

Session 2 - July 13, 2016

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Session 2 Outline

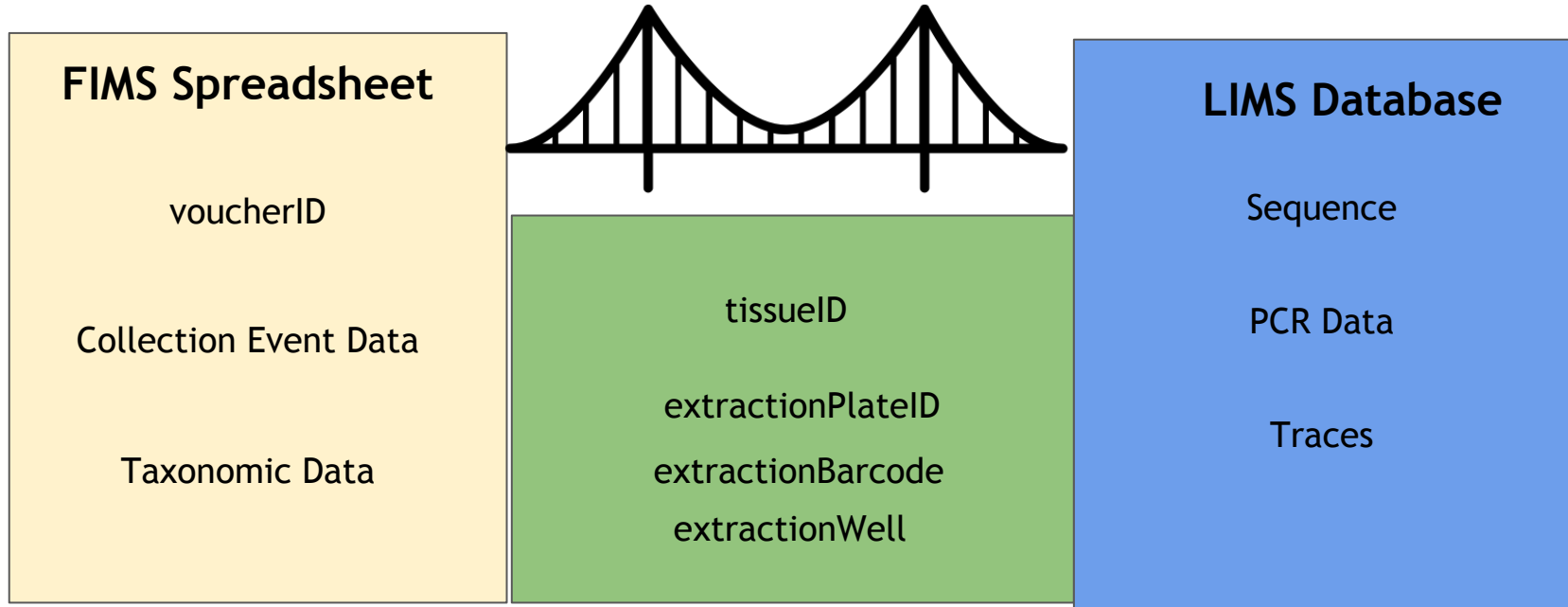
- Biocode LIMS Login
- FIMS and LIMS connections
- Naming conventions
- Generating extraction plates
- Searching in LIMS
- Overview of Generating PCR plates → primers, protocols

<http://sibarcodenetwork.readthedocs.io/en/latest/>

Exercise 1: Creating your custom FIMS spreadsheet

- Go to <https://github.com/SmithsonianWorkshops/GeneiousLIMS>, and navigate to "Week 2" -> "Exercises".
- Download your pre-filled FIMS spreadsheet and plate scan (by selecting each file and clicking "Raw").
- Follow instructions to bring in extraction barcodes from plate scan.
- Save spreadsheet as old version of Excel (.xls)

Bridge between Specimen and Sequence Data



Login window

Connection Name:

Connection Method:

Field Database Connection:

Choose the location of your excel file.
The first row should be column headers, and it should have at least a tissue and specimen column.

Excel file location:

Tissue ID field:

Specimen ID field: ☐ Specimen photos on Flickr

☒ The FIMS database contains plate information

Plate name field:

Well field:

Specify your taxonomy fields, in order of highest to lowest

kingdom	<input type="button" value="+"/> <input type="button" value="-"/>
phylum	<input type="button" value="+"/> <input type="button" value="-"/>
class	<input type="button" value="+"/> <input type="button" value="-"/>
order	<input type="button" value="+"/> <input type="button" value="-"/>
family	<input type="button" value="+"/> <input type="button" value="-"/>
genus	<input type="button" value="+"/> <input type="button" value="-"/>
scientificName	<input type="button" value="+"/> <input type="button" value="-"/>

Exercise 2: Connecting to Biocode Plugin

Login to Biocode LIMS using the following LIMS DB Info:

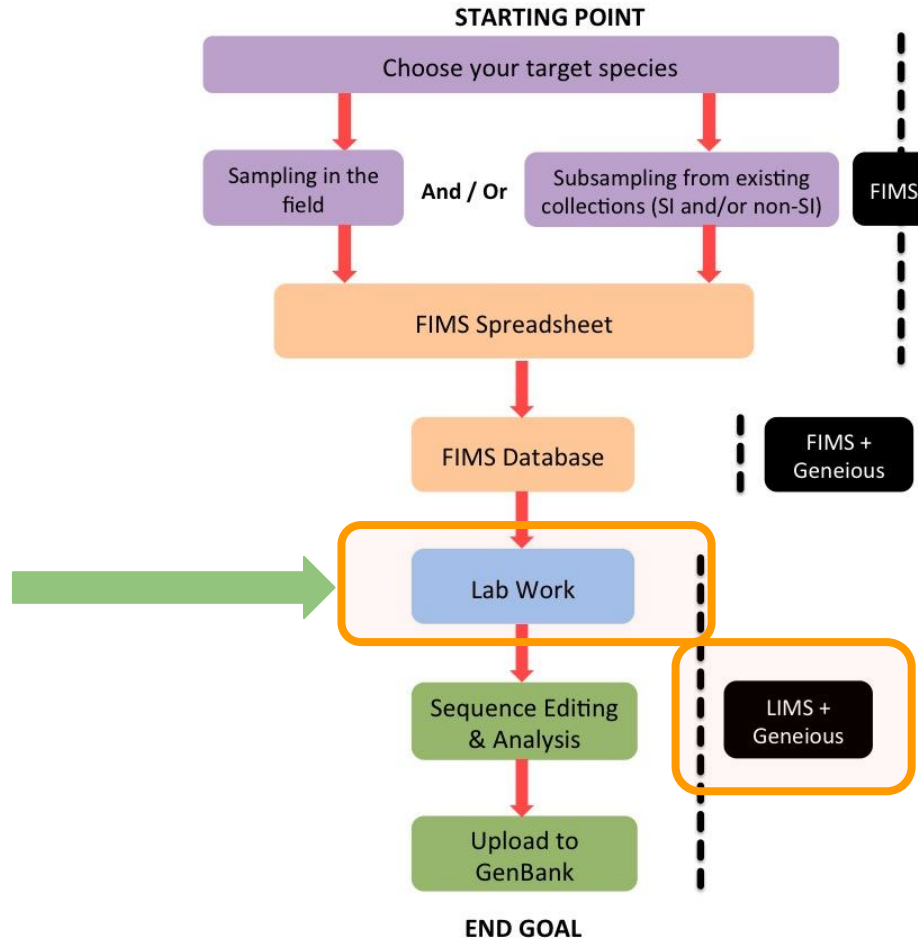
Server Address: db.bwplims.info

Database Name: si_barcode_training

Username: si_training

Password: Sm!thsonian

Overview of SI Barcoding Pipeline



Follow along at the SI Barcode Network documentation page on : Generating Extraction plates

http://sibarcodenetwork.readthedocs.io/en/latest/extraction_plates.html

Exercise 3:

Create an extraction plate.

- Use Bulk Edit to add and create the relevant IDs
- Use Edit All Wells to add specifics about the extraction process
- Save your plate
- Search for your plate

Follow along at the SI Barcode Network documentation page on : Generating PCR plates

http://sibarcodenetwork.readthedocs.io/en/latest/pcr_plates.html