



## **Draft Protocol Review-**

# **A Laboratory Perspective**

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# Disclaimer

- This presentation was assembled without input from the other laboratory directors of IR-4. Any information presented is based on personal observations and may or may not reflect those of my colleagues

(in other words, it's all on me!)



# Laboratory Focus

- Number of Samples
  - Protocol sections 18-23
- Analytical Procedures
  - Protocol section 29
- Number of Analytes
  - Protocol section 28

# How Big is this Study?

- How many trials?
- What is the RAC?
- How many matrices?
- Are there processed fractions?
- Number of treatments?
- Number of declines trials?

## A pyramid scheme or number of samples?



The number of  
samples  
And complexity of  
the study  
Grows with each  
Decision.

# What is the RAC

- Processing versus analytical
  - Easy?
  - Hard?

# Processing

- Hard



- Sweet potato
- Sugar apples
- Green coffee beans

- Easy



- Tomatoes
- Cucumber
- lettuce



# Other Processing Considerations

- Sample Size





- Dirty



- Clean



# RAC versus Analytical

- Hard



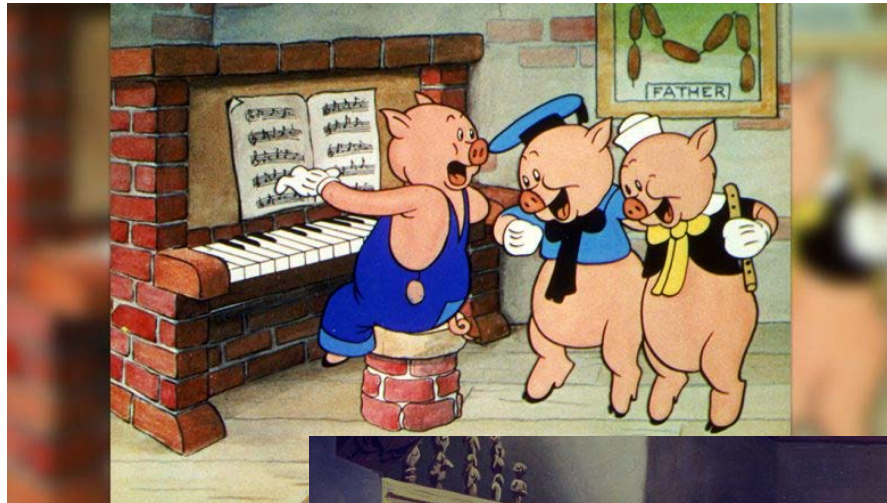
- Easy



# Analytes and Analysis

- How many analytes?
- How many analyses?
- Analytical Procedure
  - New versus old chemistry?
  - New versus old analytical procedure?

# How many Analytes?





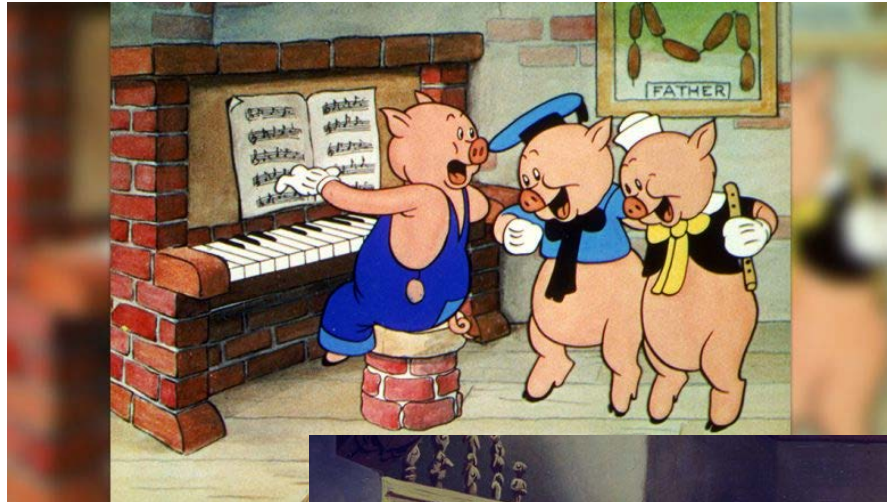
# How Many Analyses?

- Analyses per sample
  - Break out due to additional clean up for metabolites
    - Benzovindiflupyr
  - Separate procedure for each compound
    - Fungicidal mixtures
    - Triazoles

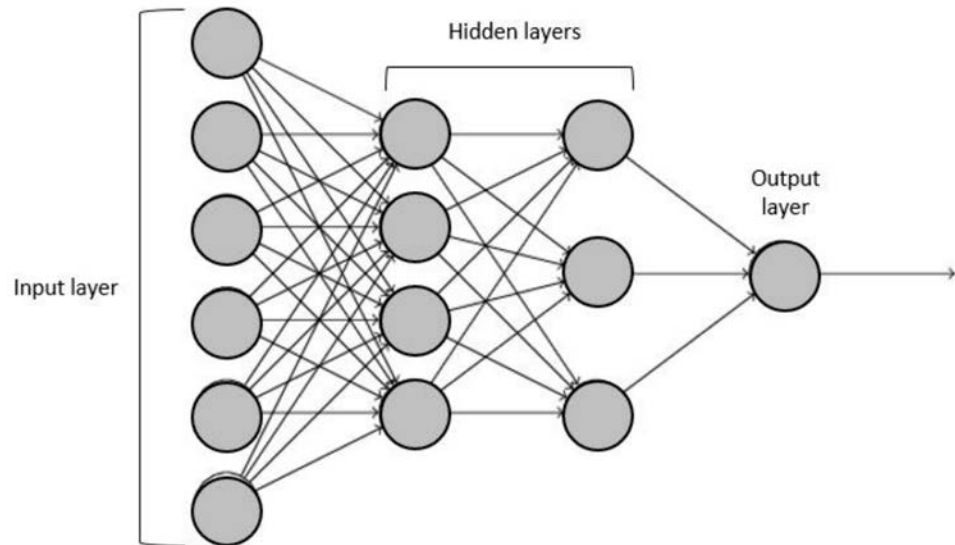




# How many Analyses?



- Complex



# New versus Old

- Procedures or Chemistry
  - Does the method have to be converted?
  - Are we familiar with the procedures even if it is new or old?
  - Have any of the other labs worked with this chemistry of procedure- which may lead to....  
(cue the dramatic music here)





# Method Development

.....But that's a whole  
other topic.....

# Prioritization process



Sometimes it feels like we  
Just spin a wheel to figure  
Out what comes next....

There is more logic to it  
Than suspected....

- Submission date (protocol section 1)
- What is currently going on in the lab?
  - Same or related compound?
- Rush job or section 18 issue
- Analyst with availability and capability to take on the project
- Or.....



# Communication between the lab, SD And field are critical-







# Thank You!

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