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OVERVIEW

Generality of laboratory notebook

Selection of laboratory notebook

Notebook labelling

What should be recorded in the laboratory notebook

Who owns the laboratory notebook

Laboratory notebook ethics

Summary

THE DISCOVERY OF HIV-1

1983: Luc Montagnier published a paper in Science, describing a retrovirus called LAV

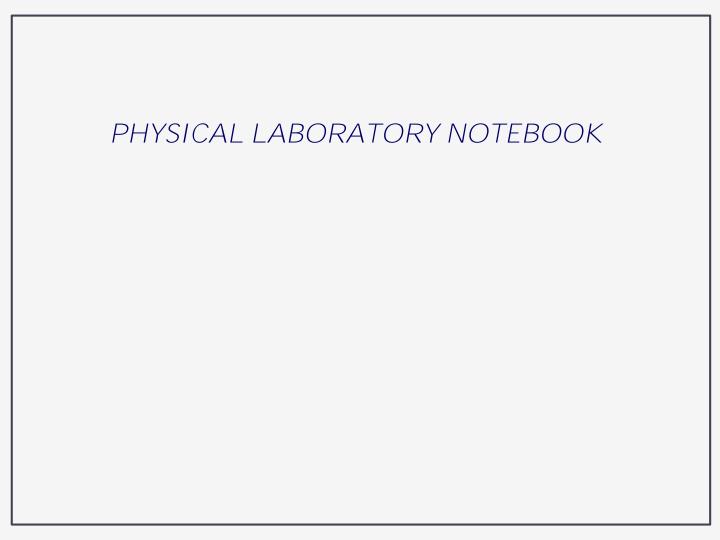
U.S. AND FRANCE END RIFT ON AIDS

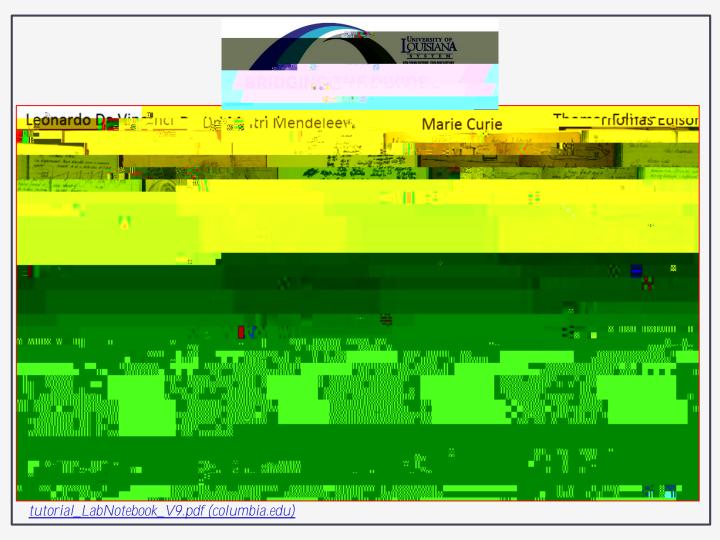
Lawrence K. Altman (April 1, 1987)

President Reagan and Prime Minister Jacques Chirac of France ended a festering international scientific dispute today.

2008: The Nobel Prize for Medicine was awarded to French co-

"And the Bank Played On" by Randy Shilts







LAB NOTEBOOK IDENTIFICATION

Easy identification to the owner of the notebook

Ability to easily reference collected data to a given entry in the corresponding notebook

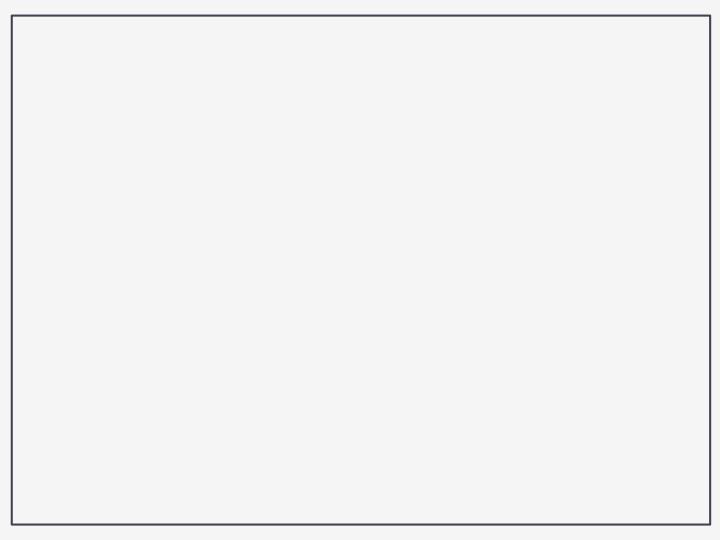
Use of name/initials of researcher, name of the

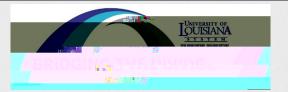
project or a unique code

LAB NOTEBOOK Your Name Professor's Name

Semester/Year







CONTENTS OF LABORATORY NOTEBOOK

Inside cover or cover page

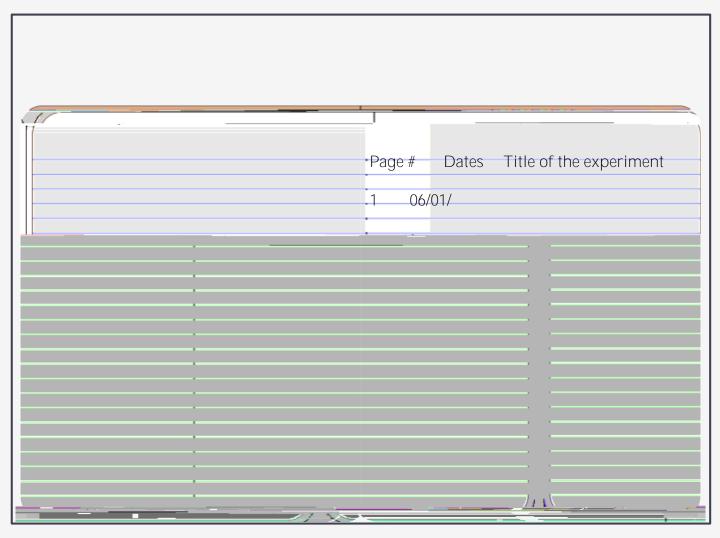
Period the lab notebook was used

Project name(s)

The address of the laboratory or o ce of researcher

Table of contents

Each page numbered and dated







CONTENTS OF LABORATORY NOTEBOOK

Date and titles each experiments

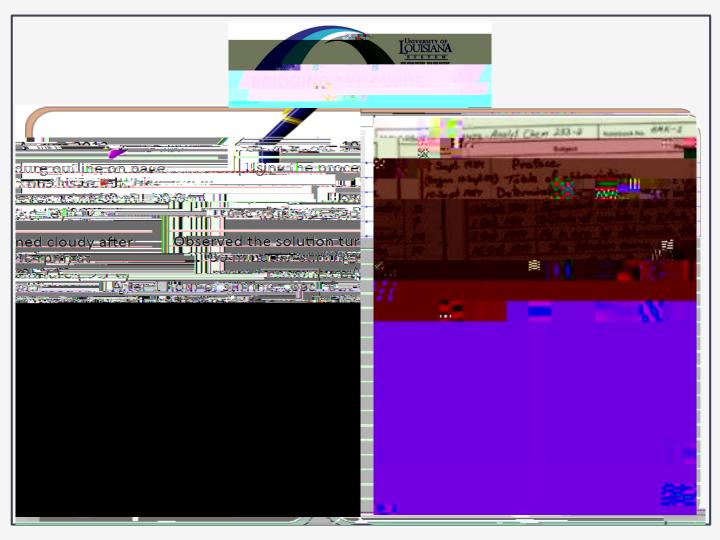
Provide all the experimental details

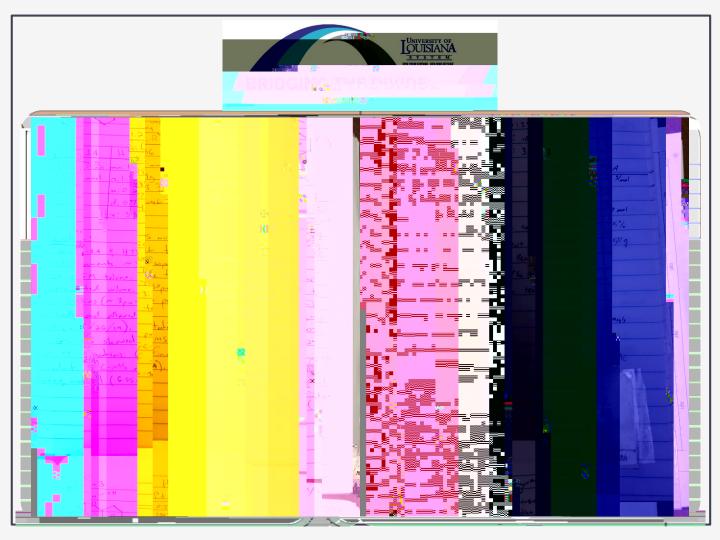
Protocols, calculations, reagents, equipment used during experiments

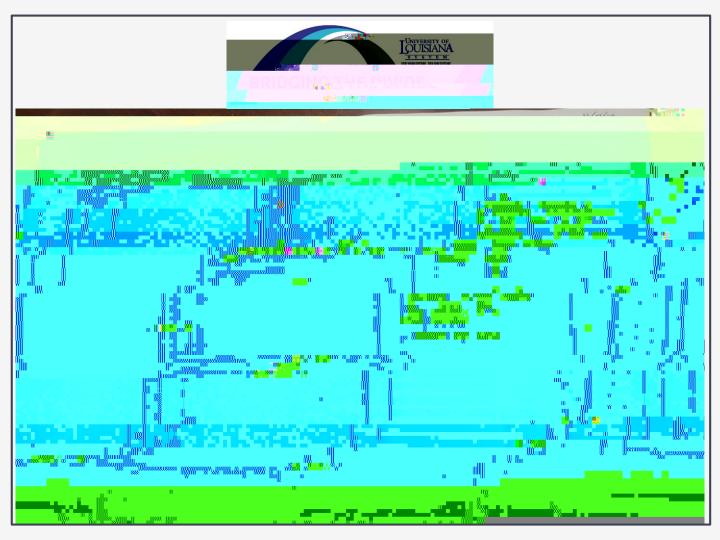
Observations: anything planned or unplanned, raw data, permanently a xed with reference to data

Conclusions

If multiple researchers using same notebook, name the author of each entry





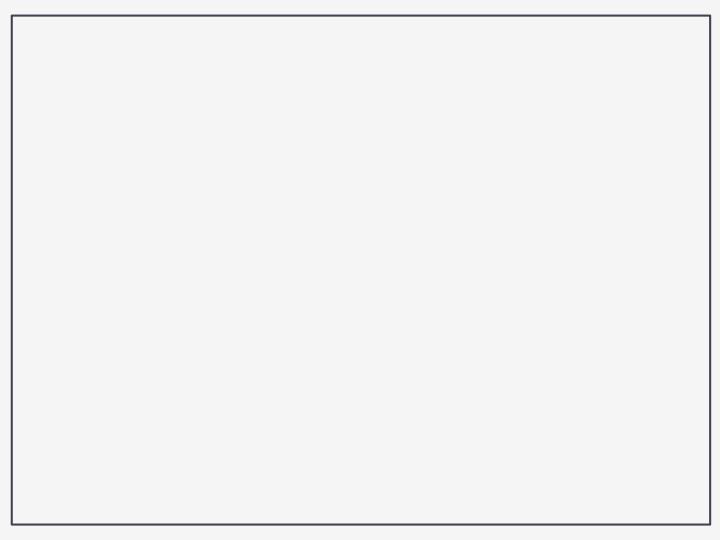


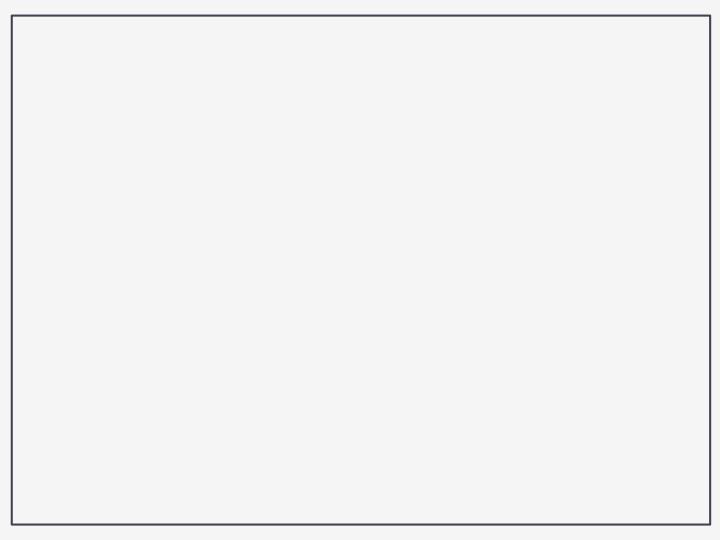
TIPS FOR NOTEBOOK HOUSEKEEPING

Use an ink pen (not Pencil) to write in notebook

Write as you go: do not write important results on scratch paper

In







SELECTING A LABORATORY NOTEBOOK

Electronic lab notebook (ELN)

Strong and easy to use note-taking capabilities

"Secured" and Easily navigable

Allows for imbedded data and images

Easy link between pages

Lock notebook pages

Secure login

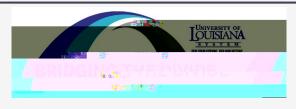
Audit trail - timestamp for changes and by whom

Allows for witness signatures

Ability to easily export information in different file types

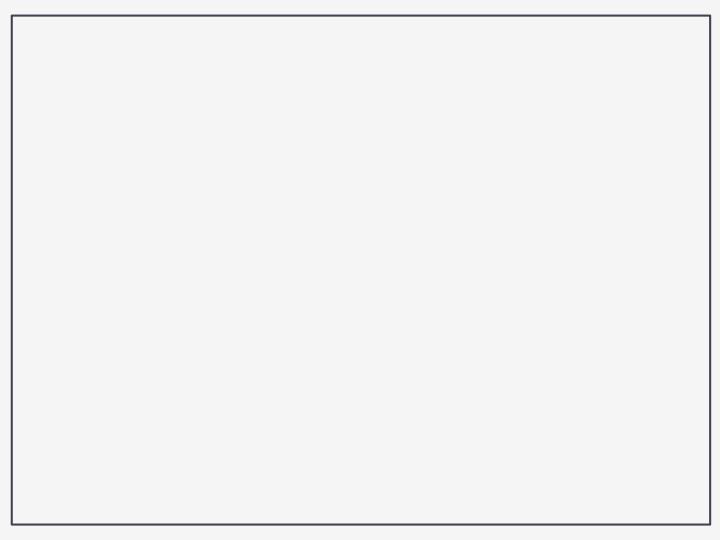
tutorial_LabNotebook_V9.pdf (columbia.edu)

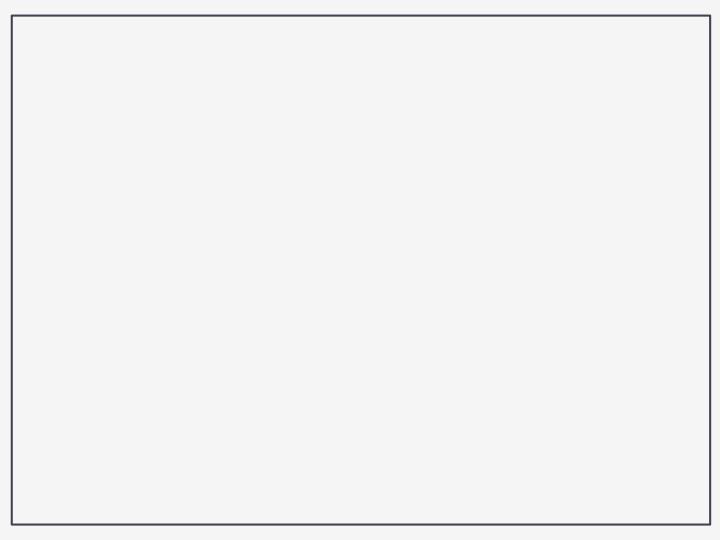




NOTEBOOKS - ADVANTAGES & DISADVANTAGES

Type of Notebook	Advantages	Disadvantages
Bound/Stitched	No lost pages, legally stronger	Difficult to copy, not logically organized, requires references to data stored elsewhere
Loose Leaf / Binder	Organized by experiment, data stored together	Sheets fall out, difficult to authenticate as pages can be added as needed.
Computer / Electronic	Easy to search, easy to read, Easy to store, available from different locations	Requires electronic security, files could be easily corrupted, Software compatibility issue, potential cyberattack





LABORATORY NOTEBOOK ETHICS

All data needs to go into notebook, even the result from unsuccessful experiments

Pages should not be removed from the lab notebook. Simply draw a line through error and provide the corrected version.

Record facts, not opinions (ex: no reaction occurred under these experimental conditions vs. this reaction will never work!)

