Set It and Forget It! A self-sustaining semester-long literature assignment for an undergraduate Genetics Class. Now with a bonus Reference Game to emphasize Boolean operators!

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Set It & Forget It!: A self-sustaining semester-long literature assignment for an undergraduate Genetics course.*

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DEPARTMENT OF BIOLOGY
WINGATE UNIVERSITY

GaCOIL 2018
General Information – University

- 3689 Students (total, not FTE)
- 963 Graduate Students
- 2726 Undergraduate Students
Department of Biology Stats

- 450 Biology majors (17% of Undergrads)
  - 10 tenured/tenure track faculty
  - 2 full-time instructors
  - 2 visiting instructors
  - 2 full-time staff members (Prep. & Admin.)

Biology is the single largest program at the University!
5 required courses

- Bio.150 and 160 (“biology “101 & 102” - type classes) Introductory Classes
- Bio.240 & 340 (Classical & Molecular Genetics)
- Senior Seminar (Capstone Senior Course)

All required courses are offered each semester.

Until (‘18- ‘19) 240 & 340 were both only taught by the same faculty member! Who also teaches 150, 160, Biochem., Parasit., Virology, and Seminar.
• Molecular Genetics with Associated Laboratory
  • ~48-72 students per semester (24/lab)
  • 12 Scheduled Laboratory Periods / semester / section.
  • 3 hours allotted for a laboratory time period

One entire laboratory period is dedicated to the Literature assignment in order to allow for simultaneous “hands-on” work during the presentation of information.

This lab is always held in the Library’s Computer Lab. Due to the number of computers the students split into two groups of 12 students. Each group meets for 1.25 hours.
"Lit. Lab" Lesson Plan Overview

- Discussion of what constitutes the “Scientific Literature”
- Discussion of “Peer Review”
- Introduction to the EKS Library Holdings
  - Wiley’s Online Library & Elsevier’s Science Direct
- Search Strategies
  - Boolean Operators
- “THE ASSIGNMENT”
- “THE GAME”!
What Constitutes Scientific Lit.?

• Topics Covered
• Involves the “Scientific Method”
• Etc.

• Titles Usually Contain the word “Journal”
What about...?
The BIG answer is of course,

• Peer Review!
One does not simply publish a scientific paper without passing Peer Review
Peer Review II

**Peer Review?**

The Design is Perfect!

Manuscript Submitted

Manuscript Accepted

Still Waiting

Peer Review

Or It Didn't Happen

You Want Me To Peer Review This?

You Didn't Even Spellcheck!!

For the Peer Review
Available online at www.sciencedirect.com

ScienceDirect

Procedia - Social and Behavioral Sciences 103 (2013) 542 – 550

15th International Educational Technology Conference

Internet memes as an information dissemination tool for libraries:
the Ateneo de Manila University experience

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Abstract

An increasing popularity of Internet memes can be observed particularly among college students. Websites such as 9gag, Reddit, and 4chan provide a venue for these memes to be visited by the general public. Having observed this trend, the Rizal Library of the Ateneo de Manila University embarked on a strategy to use Internet memes as an information dissemination
• Weekly Continuing Assignment (entire semester)
• Locate and read two papers / week
• Send links to said papers to instructor
• Follow paper selection limiters, IF GIVEN
• School week is different from a calendar week.

What if I told you
that reading an abstract is not the same as reading a paper
The ASSIGNMENT!
Instructor’s View

• Periodically set limiters for weekly papers
  • “one paper this week must mention Elephants”
  • “one paper this week must have a “Smith” as an author”
  • “one paper this week must have been published in 2016”

• Sit back and wait for papers to come in…

• Randomly reply to link emails
  • “See he DOES read them!”

• Sort through HUNDREDS of emailed links!!!!
How Thunderbird Saves the Day!

- Thunderbird is a free, open source Email program (Mozilla)
- Interfaces extremely well with many Email providers (especially Gmail)
- Extensive “Toolkit” for email sorting!!!!
- Message Filters are the Key
Thunderbird Filters I

Enabled filters are run automatically in the order shown below.

Filter Name  | Enabled |
------------|---------|
23andMe     | ✔️      |
ILLs        | ✔️      |
TIAA        | ✔️      |
340 Journal-1-Spring 2017 | ✔️      |
Banking     | ✔️      |
School      | ✔️      |
Prime Exam  | ✔️      |
GSU Filter II | ✔️    |
From is: k.nobles@wingate.edu | ✔️    |
Run selected filter(s) on: Inbox on odom@wingate.edu | Run Now |

Thanks,
The Academia.edu Team
Thunderbird Filters II

Filter Rules

Filter name: 340 Journal-1-Spring 2017

Apply filter when:
- Manually Run
- Getting New Mail: Filter before Junk Classification
- Archiving
- After Sending

Match any of the following
- From: email@addthis.com
- From: noreply@wiley.com

Perform these actions:
- Move Message to: 340 Spring 2017 on odom@wingate.edu

OK Cancel
Filter Results

Predicting interactions of winged-helix transcription factors with DNA
Regulation of oxygen affinity by quaternary enhancement: Does hemoglobin ypsilon represent an allosteric intermediate?

Protein Quaternary Structure Symmetry Patterns eLS Stenkamp Wiley Online Library

The effect of genomic position on reversion of a lac frameshift mutation (lacI23) during non-lethal selection (adaptive mutation)
Helper-dependent adenovirus for the gene therapy of proliferative retinopathies: stable gene transfer, regulated gene expression and therapeutic efficacy
Growth hormone secretion is diminished and tightly controlled in humans enriched for familial longevity
Xenotransplantation and pig endogenous retroviruses

Modeling Retrovirus Production for Gene Therapy: 1. Determination of Optimal Bioreaction Mode and Harvest Strategy
Wnt induction of chondrocyte hypertrophy through the Runx2 transcription factor
Localization of large-T oncoprotein during the embryonic and fetal development of transgenic mice - Miosge - 1996 - Birth Defects Research Part A Clin Mol Teratol
Promoter optimisation of lentiviral vectors for efficient insulin gene expression in canine mesenchymal stromal cells: potential surrogate beta cells
Deletion and insertion in vivo somatic mutations in the hypoxanthine phosphoribosyltransferase (hprt) gene of human T-lymphocytes - Burkhardt-Sch...
Filter Results II

Subject: Bringing order to translation: the contributions of transfer RNA anticodon-domain modifications - Agris - 2008 - EMBO reports - Wiley Online Library

Reply to: al.clayton@wingate.edu

To: odom.journal.340@wingate.edu


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This message was sent by al.clayton@wingate.edu via http://addthis.com. Please note that AddThis does not verify email addresses.
Name Level Filters Possible!

Filter Rules

Filter name: 340 Journal-1-Spring 2017

Apply filter when:
- Manually Run
- Getting New Mail: Filter before Junk Classification
- Archiving
- After Sending

Match any of the following messages:
- Body contains al.clayton@wingate.edu

Perform these actions:
- Move Message to Clayton-A on odom@wingate.edu
The Wingate Biology Reference Game….

• Used at the end of Lit. Lab (time permitting) to reinforce Boolean Operators

• Goal is to get the lowest number of “hits” without “Busting” (returning 0 hits)

• Let’s play a quick round…..

(Time Permitting)
Thank You! ....Any Questions?

**BOO-lean operators**

- **Ghost**
  - NOT
  - Scream

- **Scream**
  - NOT
  - Ghost

- **Ghost AND Scream**

- **Scream OR Ghost**

https://librariandesignshare.files.wordpress.com/2015/04/boolean-operators.jpg