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### **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!**

Brian Odom  
*Wingate University*

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

C. BRIAN ODOM, PHD

DEPARTMENT OF BIOLOGY

WINGATE UNIVERSITY

- 3689 Students (total, not FTE)
- 963 Graduate Students
- 2726 Undergraduate Students

- 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.

- 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.?

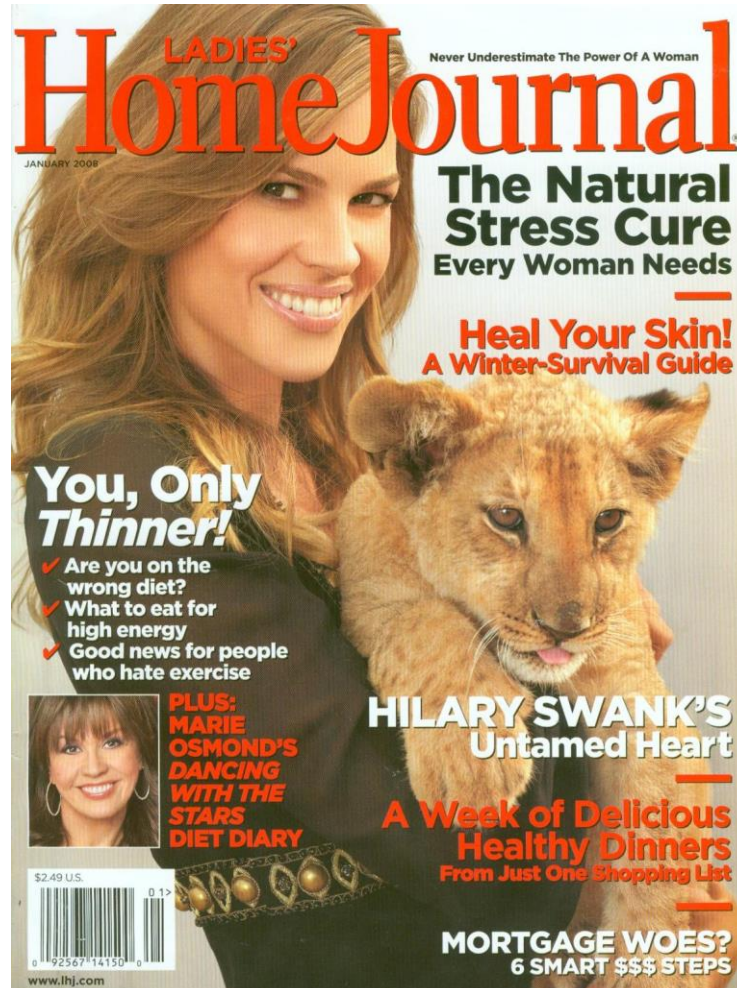
W I N G A T E

- Topics Covered
  - Involves the “Scientific Method”
  - Etc.
- 
- Titles Usually Contain the word “Journal”



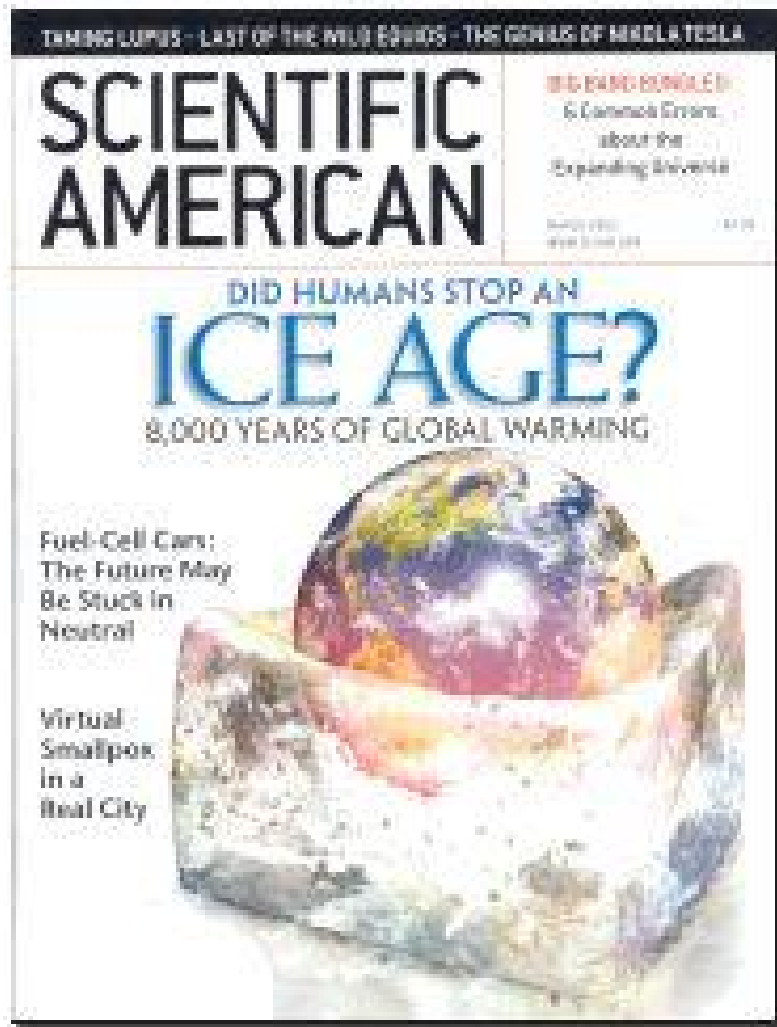
# Oops!

W I N G A T E



# What about...?

W I N G A T E

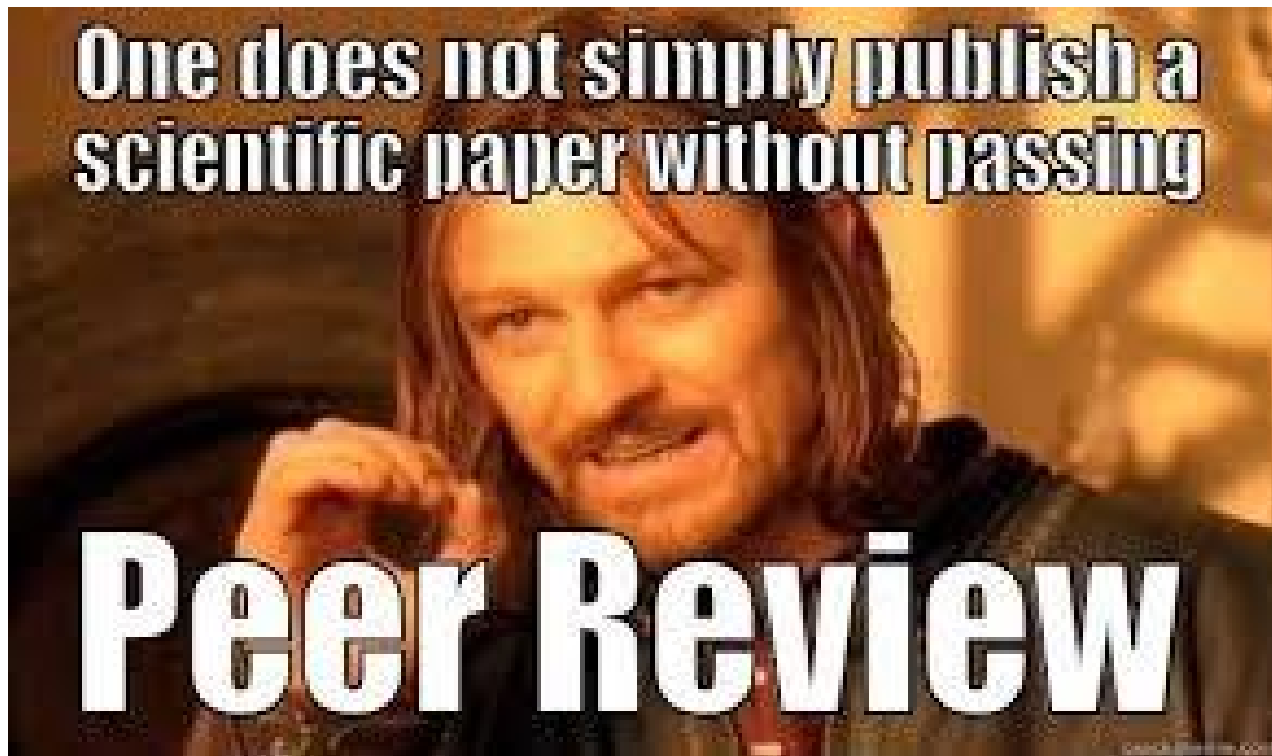


The BIG answer is of course,

W I N G A T E

- Peer Review!





# Peer Review II

W I N G A T E





ELSEVIER

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

**ScienceDirect**

Procedia - Social and Behavioral Sciences 03 (2013) 542 – 550

**Procedia**

Social and Behavioral Sciences

13<sup>th</sup> International Educational Technology Conference

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

Karryl Kim A Sagun<sup>a\*</sup>

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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

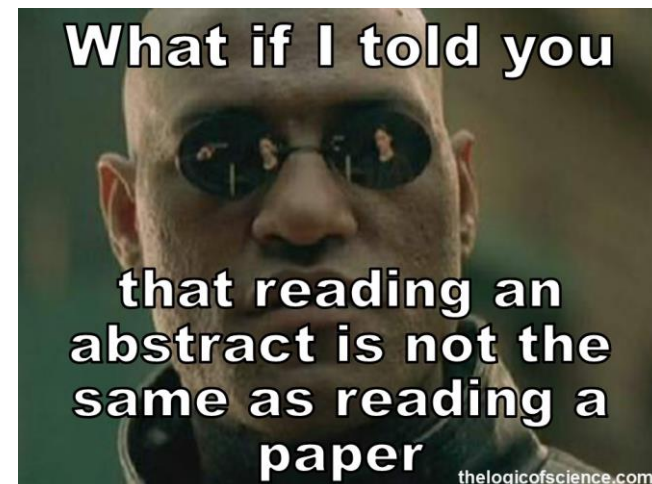


# The ASSIGNMENT!

## Student View

W I N G A T E

- 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.



# The ASSIGNMENT!

## Instructor's View

W I N G A T E

- 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!!!!



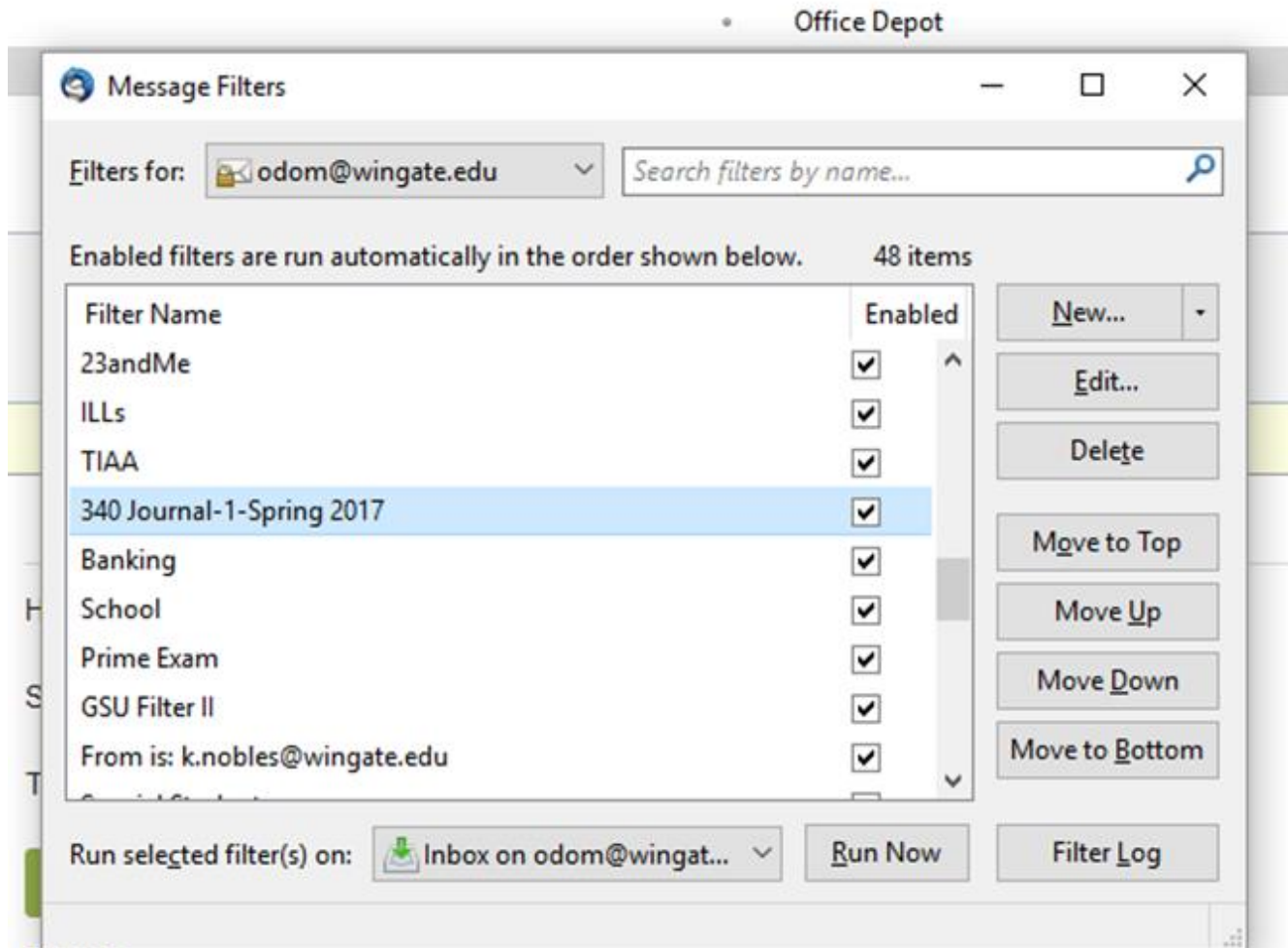
# How Thunderbird Saves the Day!

- 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

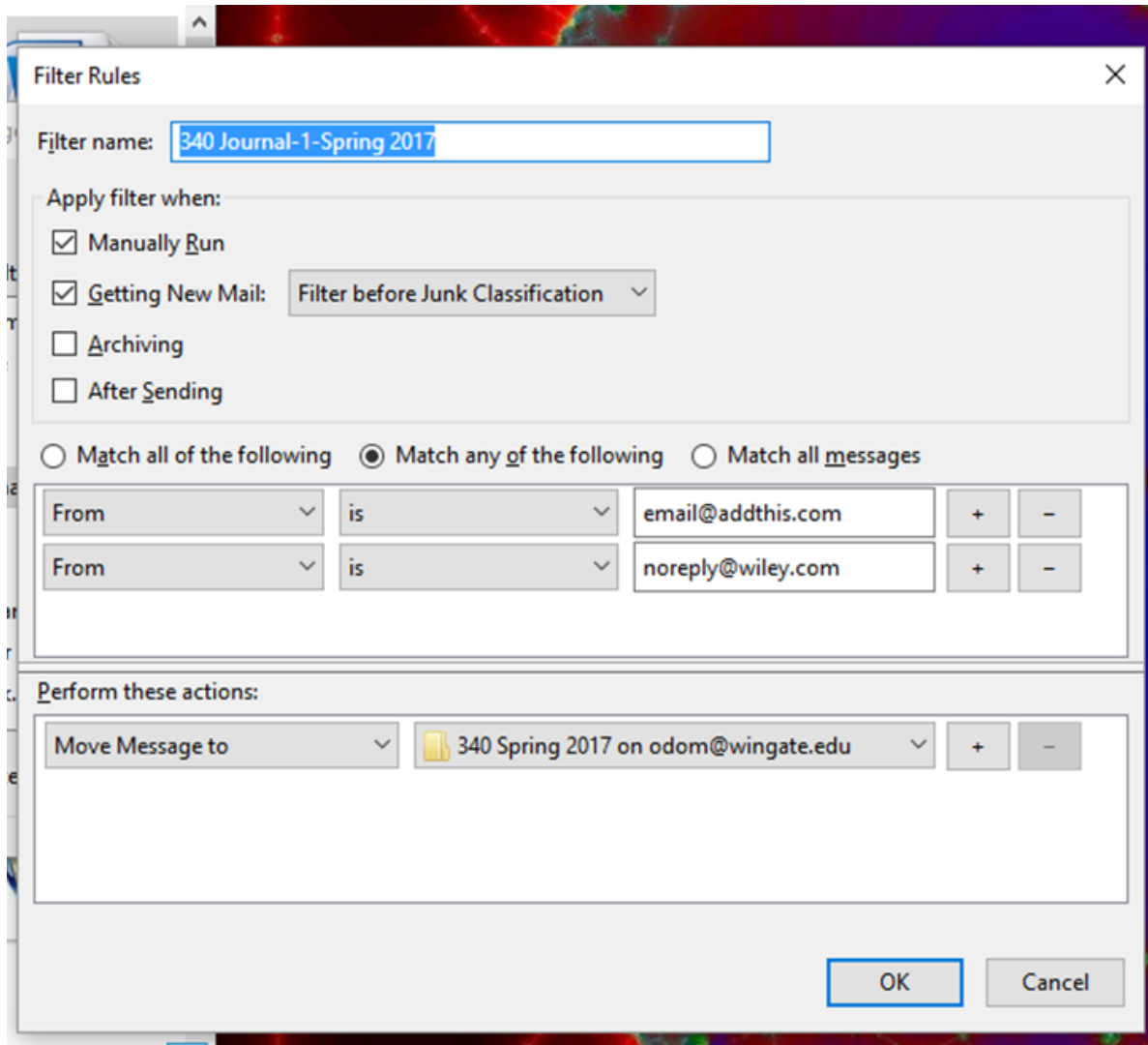
W I N G A T E



Thanks,  
The Academia.edu Team

# Thunderbird Filters II

W I N G A T E



# Filter Results I

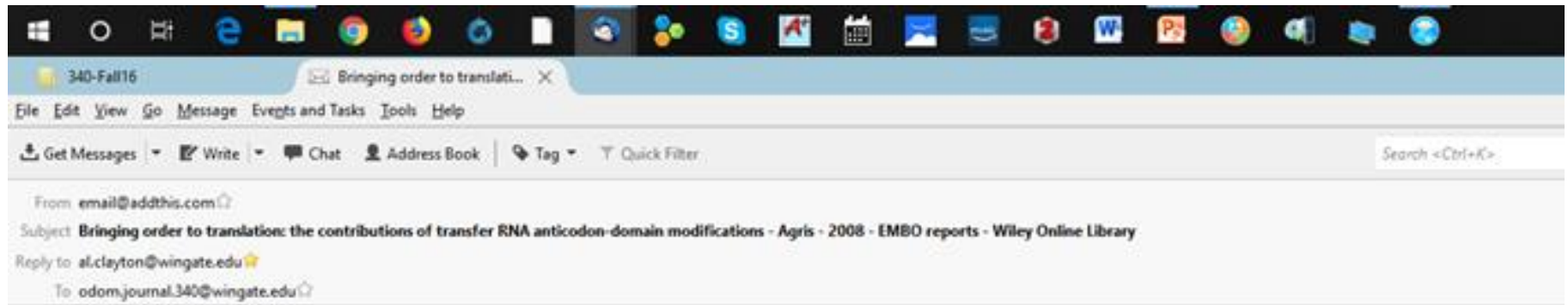
W I N G A T E

The screenshot shows a Windows desktop environment. The taskbar at the top contains icons for various applications including a web browser, file explorer, and several communication tools. The active window is a web browser displaying an email inbox interface. The interface includes a menu bar with 'Message', 'Events and Tasks', 'Tools', and 'Help'. Below the menu bar is a toolbar with 'Write', 'Chat', 'Address Book', 'Tag', and 'Quick Filter'. A search bar on the right contains the text 'Search <Ctrl+K>'. The main area of the browser shows a list of emails with columns for 'Subject' and 'Correspondents'. A search filter is applied, displaying the text 'Filter these messages <Ctrl+Shift+K>'. The email list includes subjects such as 'Predicting interactions of winged-helix transcription factors with DNA', 'Regulation of oxygen affinity by quaternary enhancement: Does hemoglobin ypsilon represent an allosteric intermediate?', and 'Protein Quaternary Structure: Symmetry Patterns eLS Stenkamp Wiley Online Library'. The 'Correspondents' column for all visible emails lists 'email@addthis.com'.

Subject	Correspondents
Predicting interactions of winged-helix transcription factors with DNA	email@addthis.com
Regulation of oxygen affinity by quaternary enhancement: Does hemoglobin ypsilon represent an allosteric intermediate?	email@addthis.com
Protein Quaternary Structure: Symmetry Patterns eLS Stenkamp Wiley Online Library	email@addthis.com
The effect of genomic position on reversion of a lac frameshift mutation (lacI <sup>Z33</sup> ) during non-lethal selection (adaptive mutation)	email@addthis.com
Helper-dependent adenovirus for the gene therapy of proliferative retinopathies: stable gene transfer, regulated gene expression and therapeutic efficacy	email@addthis.com
Growth hormone secretion is diminished and tightly controlled in humans enriched for familial longevity	email@addthis.com
Xenotransplantation and pig endogenous retroviruses	email@addthis.com
Modeling Retrovirus Production for Gene Therapy. 1. Determination of Optimal Bioreaction Mode and Harvest Strategy	email@addthis.com
Wnt induction of chondrocyte hypertrophy through the Runx2 transcription factor	email@addthis.com
Localization of large-T oncoprotein during the embryonic and fetal development of transgenic mice - Miosge - 1996 - Birth Defects Research Part A: Clinical and Molecular Biology	email@addthis.com
Promoter optimisation of lentiviral vectors for efficient insulin gene expression in canine mesenchymal stromal cells: potential surrogate beta cells	email@addthis.com
Deletion and insertion in vivo somatic mutations in the hypoxanthine phosphoribosyltransferase (hprt) gene of human T-lymphocytes - Burkhart-Schmid - 1996 - Blood	email@addthis.com
Insulin-like genes in ascidians: Findings in Ciona and hypotheses on the evolutionary origins of the pancreas	email@addthis.com
Promoter methylation and transgene copy numbers predict unstable protein production in recombinant chinese hamster ovary cell lines	email@addthis.com

# Filter Results II

W I N G A T E



<http://onlinelibrary.wiley.com/portney.wingate.edu/resolve/doi?DOI.1038%2Fembor.2008.104#.WSbANlJGFPQ.email>

...

This message was sent by [al.clayton@wingate.edu](mailto:al.clayton@wingate.edu) via <http://addthis.com>. Please note that AddThis does not verify email addresses.

# Name Level Filters Possible!

W I N G A T E

Filter Rules

Filter name: 340 Journal-1-Spring 2017

Apply filter when:

☒ Manually Run

☐ Getting New Mail: Filter before Junk Classification

☐ Archiving

☐ After Sending

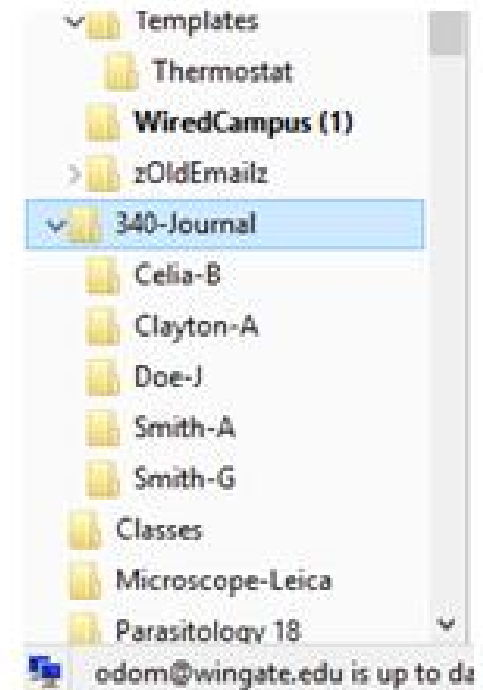
☐ Match all of the following ☒ Match any of the following ☐ Match all messages

Body contains al.clayton@wingate.edu

Perform these actions:

Move Message to Clayton-A on odom@wingate.edu

OK Cancel



# The Wingate Biology Reference Game....

W I N G A T E

- 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?

W I N G A T E

## BOO-lean operators



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