

Week 5 Assignment: Annotated Bibliography

PRIMARY 1

-The complete bibliographic reference in the APA style.

Zanini, F., & Neher, R. A. (2013). Quantifying Selection against Synonymous Mutations in HIV-1 env Evolution. *Journal of Virology*, 87(21), 11843-11850. doi:10.1128/jvi.01529-13

-The link to the abstract from PubMed.

<https://www.ncbi.nlm.nih.gov/pubmed?term=Quantifying%20selection%20against%20synonymous%20mutations%20in%20HIV-1%20env%20evolution>

-The link to the full text of the article in PubMedCentral.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3807363/>

-The link to the full text of the article (HTML format) from the publisher web site.

<http://jvi.asm.org/content/87/21/11843.long>

-The link to the full PDF version of the article from the publisher web site.

<http://jvi.asm.org/content/87/21/11843.full.pdf+html>

-Who owns the rights to the article and what is the availability?

a. Does the journal or the authors own the copyright?

i. The American Journal of Microbiology owns the copyright

b. Is the article available "Open Access" upon publication under a Creative Commons license?

i. Yes the authors paid a fee to allow for immediate open access

c. Is the article available for free after a certain period of time has elapsed?

i. No the free access was immediate

d. Is the article only available behind a paywall (use ILLiad for access)?

i. Yes there is a required subscription for this journal

-What organization is the publisher of the article?

e. What type of organization is it? (commercial, for-profit publisher, scientific society, respected open access organization like Public Library of Science or BioMedCentral, or predatory open access organization; see <http://oaspa.org/>)

membership/members/ for a list of members of the Open Access Scholarly Publishers Association)

- i. American Society for Microbiology, it looks like a scientific society that can provide access to a variety of smaller, more specific journals, most likely non-for-profit

-Is this article available in print or online only?

Online only, links to the website appear all over the article and there is no evidence on the website to suggest that they mail them out

-Has LMU paid a subscription or other fee for your access to this article?

No

-Write 2-3 sentences about why this article is relevant to your project.

This article is relevant to my project because it provides specific insight into the role synonymous/nonsynonymous mutations play in the HIV virus's ability to evade detection by the human immune system. It describes a weak selection against synonymous mutations that cause the rate of evolution of the virus to slow down.

PRIMARY 2

-The complete bibliographic reference in the APA style.

Goz, E., & Tuller, T. (2016). Evidence of a Direct Evolutionary Selection for Strong Folding and Mutational Robustness Within HIV Coding Regions. *Journal of Computational Biology*, 23(8), 641-650. doi:10.1089/cmb.2016.0052

-The link to the abstract from PubMed.

[https://www.ncbi.nlm.nih.gov/pubmed?term=\(Evidence%20of%20a%20Direct%20Evolutionary%20Selection%20for%20Strong%20Folding%5BTtitle%5D%20AND%20Mutational%20Robustness%20Within%20HIV%20Coding%20Regions%5BTtitle%5D\)](https://www.ncbi.nlm.nih.gov/pubmed?term=(Evidence%20of%20a%20Direct%20Evolutionary%20Selection%20for%20Strong%20Folding%5BTtitle%5D%20AND%20Mutational%20Robustness%20Within%20HIV%20Coding%20Regions%5BTtitle%5D))

-The link to the full text of the article in PubMedCentral.

No link

-The link to the full text of the article (HTML format) from the publisher web site.

No link

-The link to the full PDF version of the article from the publisher web site.

file:///Users/zackgoldstein/Downloads/Goz_JCompBiol_16_HIVfolding.pdf

-Who owns the rights to the article and what is the availability?

- a. Does the journal or the authors own the copyright?
 - a. Journal
- b. Is the article available "Open Access" upon publication under a Creative Commons license?
 - a. No
- c. Is the article available for free after a certain period of time has elapsed?
 - a. No
- d. Is the article only available behind a paywall (use ILLiad for access)?
 - a. Yes

-What organization is the publisher of the article?

- e. What type of organization is it? (commercial, for-profit publisher, scientific society, respected open access organization like Public Library of Science or BioMedCentral, or predatory open access organization; see <http://oaspa.org/membership/members/> for a list of members of the Open Access Scholarly Publishers Association)
 - a. Journal of Computational Biology, it is a for-profit publisher

-Is this article available in print or online only?

Print and online

-Has LMU paid a subscription or other fee for your access to this article?

No, but they are able to get free access through other resources

-Write 2-3 sentences about why this article is relevant to your project.

This article is relevant to my project because it discusses the robustness structures have to mutations and the role it plays in the strength of secondary functional RNA structures in virus's with high mutation rates (such as HIV). This paper proposes that specific regions of HIV structural genes undergo selection for strong folding. This helps us understand and explain importance of mutations in the progression of HIV, and how the body might be responding to the unique patterns of the virus.

PRIMARY 3

-The complete bibliographic reference in the APA style.

Spielman, S. J., & Wilke, C. O. (2015). The Relationship between dN/dS and Scaled Selection Coefficients. *Molecular Biology and Evolution*, 32(4), 1097-1108. doi:10.1093/molbev/msv003

-The link to the abstract from PubMed.

[https://www.ncbi.nlm.nih.gov/pubmed?term=\(The%20Relationship%20between%20dN%2FdS%5BTitle%5D%20AND%20Scaled%20Selection%20Coefficients%5BTitle%5D\)](https://www.ncbi.nlm.nih.gov/pubmed?term=(The%20Relationship%20between%20dN%2FdS%5BTitle%5D%20AND%20Scaled%20Selection%20Coefficients%5BTitle%5D))

-The link to the full text of the article in PubMedCentral.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4379412/>

-The link to the full text of the article (HTML format) from the publisher web site.

<http://mbe.oxfordjournals.org/content/32/4/1097.long>

-The link to the full PDF version of the article from the publisher web site.

<http://mbe.oxfordjournals.org/content/32/4/1097.full.pdf+html>

-Who owns the rights to the article and what is the availability?

a. Does the journal or the authors own the copyright?

a. The authors own the copyright

b. Is the article available "Open Access" upon publication under a Creative Commons license?

a. Advance access January 8, 2015

c. Is the article available for free after a certain period of time has elapsed?

a. No

d. Is the article only available behind a paywall (use ILLiad for access)?

a. Yes

-What organization is the publisher of the article?

e. What type of organization is it? (commercial, for-profit publisher, scientific society, respected open access organization like Public Library of Science or BioMedCentral, or predatory open access organization; see <http://oaspa.org/membership/members/> for a list of members of the Open Access Scholarly Publishers Association)

a. Molecular Biology and Evolution, a peer reviewed journal published by the Society for Molecular Biology and Evolution, it

appears to be a scientific society/organization that aims to aid communication between biologists, most likely non-for-profit

-Is this article available in print or online only?

It is available online and in print

-Has LMU paid a subscription or other fee for your access to this article?

Yes

-Write 2-3 sentences about why this article is relevant to your project.

This article is relevant to my project because it looks for differences in selection/fitness of synonymous/nonsynonymous mutations and describes strengths and weaknesses in modeling techniques used in papers. This article could potentially lead to a conclusion that dN/dS ratios are not the proper model to use in forming groups because of its limitations.

Review 1

-The complete bibliographic reference in the APA style.

Clausen, L. N. (2014, April). Factors Associated With Resolution and Progression of HIV/hepatitis C Virus Infection. *Danish Medical Journal*, 1-15. Retrieved September 27, 2016, from PubMed.

-The link to the abstract from PubMed.

<https://www.ncbi.nlm.nih.gov/pubmed/24814602>

-The link to the full text of the article in PubMedCentral.

No link

-The link to the full text of the article (HTML format) from the publisher web site.

No link

-The link to the full PDF version of the article from the publisher web site.

[http://www.danmedj.dk/portal/pls/portal/!PORTAL.wwpob_page.show?
_docname=10547072.PDF](http://www.danmedj.dk/portal/pls/portal/!PORTAL.wwpob_page.show?_docname=10547072.PDF)

-Who owns the rights to the article and what is the availability?

a. Does the journal or the authors own the copyright?

a. Author

- b. Is the article available "Open Access" upon publication under a Creative Commons license?
 - a. No
- c. Is the article available for free after a certain period of time has elapsed?
 - a. Yes
- d. Is the article only available behind a paywall (use ILLiad for access)?
 - a. No, I was able to access it without LMU passwords and LMU did not pay a fee for access to the article

-What organization is the publisher of the article?

- e. What type of organization is it? (commercial, for-profit publisher, scientific society, respected open access organization like Public Library of Science or BioMedCentral, or predatory open access organization; see <http://oaspa.org/membership/members/> for a list of members of the Open Access Scholarly Publishers Association)
 - a. Danish Medical Journal, I believe it is a for-profit organization because it is published by the Danish Medical Association and it is not "open access"

-Is this article available in print or online only?

Print and Online

-Has LMU paid a subscription or other fee for your access to this article?

No

-Write 2-3 sentences about why this article is relevant to your project.

This article is relevant to my project because it highlights other ways HIV progression can be monitored with HCV (coinfection) and on its own. This includes its relationship in grown with the other virus and how both interplay with each other (ex: increased viral loads caused by HIV cause progression of HCV). We can use information in this article to discussion other ways to categorize progressors and look for trends.