

LENScience Senior Biology Seminar Series

Teacher Update Number 5 – June 6th 2009

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Seminar 2 Wiki Questions Discussion

The questions coming in from Seminar 2 were excellent and great to see a large number of schools participating. Most of those have answers up in the wiki – a few challenges for the team there and they are coming back to you with answers this week. Great to see some answers starting to appear on the wiki discussion -please remember to encourage your students to contribute

Seminar 3 – suggested teacher reading.

All articles are from open access journals – available free on line. Some are also appropriate for advanced students.

Cooney, C. A. (2006) Germ cells carry the epigenetic benefits of grandmother's diet PNAS vol. 103, no. 46 p17071–17072 <http://www.pnas.org/content/103/46/17071.full.pdf+html>

Hunter, P. (2008) We are what we eat. The link between diet, evolution and non-genetic inheritance. *EMBO reports* 9, 5, 413–415
<http://www.nature.com/embor/journal/v9/n5/full/embor200861.html>

Pray, L. A (2004) Epigenetics: Genome, Meet Your Environment: As the evidence accumulates for epigenetics, researchers reacquire a taste for Lamarckism. *The Scientist* (2004) 18 (13): 14
<https://notes.utk.edu/bio/greenberg.nsf/0/b360905554fdb7d985256ec5006a7755?OpenDocument>

Wade, P.A. Archer, T. K.(2006) Epigenetics – environmental instructions for the genome. *Environmental Health Perspectives* VOLUME 114, NUMBER 3 <http://www.ehponline.org/docs/2006/114-3/EHP114pa140PDF.PDF>

Weinhold B (2006) Epigenetics: The Science of Change *Environmental Health Perspectives* VOLUME 114, NUMBER 3 <http://www.ehponline.org/members/2006/114-3/ehp0114-a00160.pdf>

Additional Reading – suitable for the school library

If you have not already read it – we strongly recommend *Mismatch* as a good book to invest in for the school library. Written for the lay person with some knowledge of science, it is very readable and would be of value to teachers and advanced students.

Gluckman P and Hanson M (2007) *Mismatch: Why our world no longer fits our bodies* Oxford University Press

Student Lists

A reminder that if you would like your students to be sent the student updates directly each Friday via email, please send an excel spreadsheet list of students to ligginsinfo@auckland.ac.nz using the following format:

Surname	Name	email
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Live Audience

It was great to have students and staff from Waiuku College with us last week. A number of schools have suggested they would like to send students up to participate in the live audience. If you are interested in sending a group please contact me – we cannot find any funding to support students from out of Auckland but I am sure we could arrange billets with participating schools.

Final Seminar Topic Announced.

You may have noticed that the final seminar topic has been “to be confirmed”. We are pleased to announce that Professor Mike Walker from the School of biological Sciences has confirmed that he is available - topic Migration. Mike is an outstanding scientist and presenter with research that will bring this aspect of the curriculum to life for your students.

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